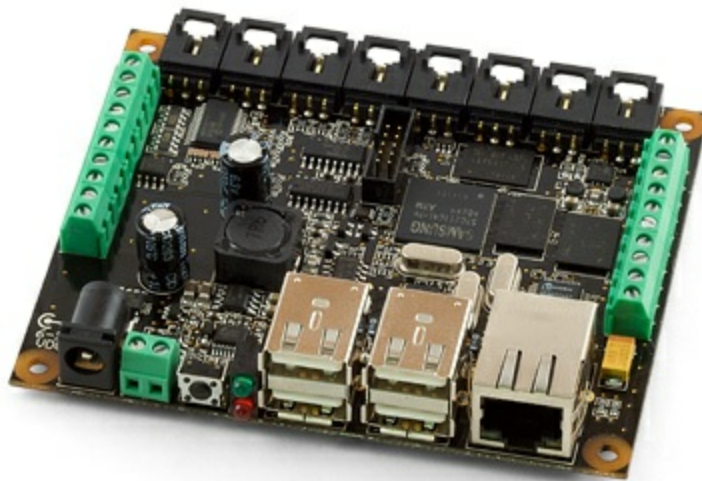




Labview Manual

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Labview Manual

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Table of Contents

Foreword	0
Part I Welcome to Phidgets	13
Part II Introduciton	14
1 Understanding Phidgets.....	14
2 Platform Support.....	15
Part III Programming Concept	17
1 Getting Started.....	17
2 Event Handler.....	21
3 Multiple Devices.....	24
Part IV Phidgets Common	26
1 ErrorHandler.vi.....	26
2 PhidgetClose.vi.....	27
3 PhidgetDelete.vi.....	28
4 PhidgetEventCloseOnError.vi.....	29
5 PhidgetEventCreateOnError.vi.....	30
6 PhidgetEventExeOnError.vi.....	31
7 PhidgetGetDeviceClass.vi.....	33
8 PhidgetGetDeviceID.vi.....	34
9 PhidgetGetDeviceLabel.vi.....	36
10 PhidgetGetDeviceName.vi.....	37
11 PhidgetGetDeviceType.vi.....	38
12 PhidgetGetDeviceVersion.vi.....	39
13 PhidgetGetServerAddress.vi.....	41
14 PhidgetGetServerStatus.vi.....	42
15 PhidgetGetServiceID.vi.....	43
16 PhidgetLibraryVersion.vi.....	45
17 PhidgetOpen.vi.....	46
18 PhidgetOpenRemote.vi.....	47
19 PhidgetOpenRemoteIP.vi.....	49
20 PhidgetSetDeviceLabel.vi.....	51
21 Subvi.....	52
_AttachCHK.vi.....	52
_ChkError.vi.....	53
_Close.vi.....	55
_Delete.vi.....	56

_Open.vi	57
_OpenRemote.vi	58
_OpenRemoteIP.vi	59
_SerialReturn.vi	61
_WaitAttach.vi	62
EventCloseIntDouble.vi	63
EventCloseIntInt.vi	65
EventExeIntDouble.vi	66
EventExeIntInt.vi	68

Part V Specific Modules

70

1 Accelerometer.....	70
AcceAxisCount.vi	70
AcceCreate.vi	71
AcceEventClose.vi	72
AcceEventCreate.vi	74
AcceEventExe.vi	75
AcceGetData.vi	76
AcceGetMax.vi	78
AcceGetMin.vi	79
AcceGetTrigger.vi	81
AcceOpen.vi	82
AcceSetTrigger.vi	84
2 AdvancedServo.....	85
AdvServoCount.vi	85
AdvServoCreate.vi	86
AdvServoEventClose.vi	87
AdvServoEventCreateCrtChange.vi	89
AdvServoEventCreatePosChange.vi	90
AdvServoEventCreateVelChange.vi	91
AdvServoEventExe.vi	93
AdvServoGetAcce.vi	94
AdvServoGetAcceMax.vi	96
AdvServoGetAcceMin.vi	97
AdvServoGetCurrent.vi	99
AdvServoGetEngaged.vi	100
AdvServoGetPos.vi	102
AdvServoGetPosMax.vi	103
AdvServoGetPosMin.vi	104
AdvServoGetRampingState.vi	106
AdvServoGetServoType.vi	107
AdvServoGetVel.vi	109
AdvServoGetVelLmt.vi	110
AdvServoGetVelMax.vi	112
AdvServoGetVelMin.vi	113
AdvServoOpen.vi	115
AdvServoSetAcce.vi	116
AdvServoSetEngaged.vi	117
AdvServoSetPos.vi	119
AdvServoSetPosMax.vi	120
AdvServoSetPosMin.vi	122
AdvServoSetRampingState.vi	123
AdvServoSetServoParameters.vi	125

AdvServoSetServoType.vi	126
AdvServoSetVelLmt.vi	128
AdvServoStoppedState.vi	129
3 Analog.....	131
AnalogCreate.vi	131
AnalogGetEnabled.vi	132
AnalogGetVoltage.vi	133
AnalogGetVoltageMax.vi	135
AnalogGetVoltageMin.vi	136
AnalogOpen.vi	138
AnalogOutputCount.vi	139
AnalogSetEnabled.vi	141
AnalogSetVoltage.vi	142
4 Bridge.....	144
BridgeCreate.vi	144
BridgeEventClose.vi	145
BridgeEventCreate.vi	146
BridgeEventExe.vi	147
BridgeGetDataRate.vi	149
BridgeGetDataRateMax.vi	150
BridgeGetDataRateMin.vi	151
BridgeGetEnabled.vi	153
BridgeGetGain.vi	154
BridgeGetValue.vi	156
BridgeGetValueMax.vi	157
BridgeGetValueMin.vi	159
BridgeInputCount.vi	160
BridgeOpen.vi	161
BridgeSetDataRate.vi	163
BridgeSetEnabled.vi	164
BridgeSetGain.vi	166
5 Encoder.....	167
EncoderCreate.vi	167
EncoderEventCloseInput.vi	168
EncoderEventClosePosition.vi	169
EncoderEventCreateInput.vi	171
EncoderEventCreatePosition.vi	172
EncoderEventExeInput.vi	173
EncoderEventExePosition.vi	175
EncoderGetCount.vi	177
EncoderGetEnabledState.vi	178
EncoderGetIndexPosition.vi	180
EncoderGetInputCount.vi	181
EncoderGetInputState.vi	182
EncoderGetPosition.vi	184
EncoderOpen.vi	185
EncoderSetEnabled.vi	187
EncoderSetPosition.vi	188
6 Frequency.....	190
FreqCreate.vi	190
FreqEventClose.vi	191
FreqEventCreate.vi	192
FreqEventExe.vi	193

FreqGetCount.vi	195
FreqGetCount71.vi	197
FreqGetEnabled.vi	198
FreqGetFilter.vi	200
FreqGetTime.vi	201
FreqGetTime71.vi	202
FreqGetTimeout.vi	204
FreqGetValue.vi	205
FreqInputCount.vi	207
FreqOpen.vi	208
FreqReset.vi	210
FreqSetEnabled.vi	211
FreqSetFilter.vi	212
FreqSetTimeout.vi	214
7 GPS.....	215
GPSCreate.vi	215
GPSEventCloseFixStatus.vi	216
GPSEventClosePosition.vi	218
GPSEventCreateFixStatus.vi	219
GPSEventCreatePosition.vi	220
GPSEventExeFixStatus.vi	221
GPSEventExePosition.vi	223
GPSGetAltitude.vi	225
GPSGetDate.vi	226
GPSGetFixStatus.vi	228
GPSGetHeading.vi	229
GPSGetLatitude.vi	231
GPSGetLongitude.vi	232
GPSGetTime.vi	233
GPSGetVelocity.vi	235
GPSOpen.vi	236
8 InterfaceKit.....	238
IFCreate.vi	238
IFEventClose.vi	239
IFEventCreateInput.vi	240
IFEventCreateOutput.vi	241
IFEventCreateSensor.vi	243
IFEventExe.vi	244
IFGetDataRate.vi	246
IFGetDataRateMax.vi	247
IFGetDataRateMin.vi	249
IFGetInputCount.vi	250
IFGetInputState.vi	251
IFGetOutputCount.vi	253
IFGetOutputState.vi	254
IFGetRatio.vi	256
IFGetSensorCount.vi	257
IFGetSensorValue.vi	259
IFGetSensorValueRaw.vi	260
IFGetTrig.vi	261
IFOpen.vi	263
IFSetDataRate.vi	264
IFSetOutputState.vi	266

IFSetRatio.vi	267
IFSetTrig.vi	269
9 IR	270
IRCreate.vi	270
IREventCloseOnCode.vi	271
IREventCloseOnLearn.vi	272
IREventCloseOnRawData.vi	274
IREventCreateOnCode.vi	275
IREventCreateOnLearn.vi	276
IREventCreateOnRawData.vi	278
IREventExeOnCode.vi	279
IREventExeOnLearn.vi	281
IREventExeOnRawData.vi	284
IRGetLastCode.vi	286
IRGetLastLearnedCode.vi	287
IRGetRawData.vi	291
IROpen.vi	292
IRTransmit.vi	294
IRTransmitRaw.vi	297
IRTransmitRepeat.vi	299
10 LED.....	301
LEDCount.vi	301
LEDCreate.vi	302
LEDGetBrightness.vi	303
LEDGetCurrentLimit.vi	304
LEDGetCurrentLimitIndexed.vi	306
LEDGetVoltage.vi	307
LEDOpen.vi	309
LEDSetBrightness.vi	310
LEDSetCurrentLimit.vi	311
LEDSetCurrentLimitIndexed.vi	313
LEDSetVoltage.vi	314
11 MotorControl.....	316
MCCreate.vi	316
MCEventCloseCurrent.vi	317
MCEventCloseEMF.vi	318
MCEventCloseInput.vi	319
MCEventClosePositionChange.vi	320
MCEventClosePositionUpdate.vi	322
MCEventCloseSensorUpdate.vi	323
MCEventCloseVelocity.vi	324
MCEventCreateCurrentChange.vi	325
MCEventCreateCurrentUpdate.vi	326
MCEventCreateEMF.vi	328
MCEventCreateInput.vi	329
MCEventCreatePositionChange.vi	330
MCEventCreatePositionUpdate.vi	331
MCEventCreateSensorUpdate.vi	333
MCEventCreateVelocity.vi	334
MCEventExeCurrent.vi	335
MCEventExeEMF.vi	337
MCEventExeInput.vi	339
MCEventExePositionChange.vi	340

MCEventExePositionUpdate.vi	342
MCEventExeSensorUpdate.vi	344
MCEventExeVelocity.vi	345
MCGetAcceleration.vi	347
MCGetAccelerationMax.vi	348
MCGetAccelerationMin.vi	350
MCGetBackEMFValue.vi	351
MCGetBraking.vi	353
MCGetCurrent.vi	354
MCGetEMFState.vi	355
MCGetEncoderCount.vi	357
MCGetEncoderPosition.vi	358
MCGetInputCount.vi	360
MCGetInputState.vi	361
MCGetMotorCount.vi	363
MCGetRatiometricState.vi	364
MCGetSensorCount.vi	365
MCGetSensorValue.vi	367
MCGetSensorValueRAW.vi	368
MCGetSupplyVoltage.vi	370
MCGetVelocity.vi	371
MCOpen.vi	372
MCSetAcceleration.vi	374
MCSetBraking.vi	375
MCSetEMFState.vi	377
MCSetEncoderPosition.vi	378
MCSetRatiometricState.vi	380
MCSetVelocity.vi	381
12 PHSensor.....	382
PHCreate.vi	382
PHEventClose.vi	383
PHEventCreate.vi	385
PHEventExe.vi	386
PHGetPH.vi	388
PHGetPHMax.vi	389
PHGetPHMin.vi	390
PHGetPHTrigger.vi	392
PHGetPotential.vi	393
PHGetPotentialMax.vi	394
PHGetPotentialMin.vi	396
PHOpen.vi	397
PHSetTemperature.vi	398
PHSetTrig.vi	400
13 RFID.....	401
RFIDCreate.vi	401
RFIDEventClose.vi	402
RFIDEventClose2.vi	404
RFIDEventCloseOutput.vi	405
RFIDEventCreateOutput.vi	406
RFIDEventCreateTag.vi	407
RFIDEventCreateTag2.vi	409
RFIDEventCreateTagLost.vi	410
RFIDEventCreateTagLost2.vi	411

RFIDEventExe.vi	412
RFIDEventExe2.vi	414
RFIDEventExeOutput.vi	416
RFIDGetAntennaState.vi	417
RFIDGetLastTag.vi	419
RFIDGetLastTag2.vi	420
RFIDGetLEDState.vi	422
RFIDGetOutputCount.vi	423
RFIDGetOutputState.vi	424
RFIDGetTagState.vi	426
RFIDOpen.vi	427
RFIDSetAntennaState.vi	429
RFIDSetLEDState.vi	430
RFIDSetOutputState.vi	432
RFIDWriteTag.vi	433
14 Servo.....	435
ServoCount.vi	435
ServoCreate.vi	436
ServoEventClose.vi	437
ServoEventCreate.vi	438
ServoEventExe.vi	440
ServoGetEngaged.vi	441
ServoGetPos.vi	443
ServoGetPosMax.vi	444
ServoGetPosMin.vi	446
ServoGetServoType.vi	447
ServoOpen.vi	448
ServoSetEngaged.vi	450
ServoSetPos.vi	451
ServoSetServoParameters.vi	453
ServoSetServoType.vi	454
15 Spatial.....	456
SpatialCreate.vi	456
SpatialEventClose.vi	457
SpatialEventCreate.vi	458
SpatialEventExe.vi	460
SpatialGetAcce.vi	462
SpatialGetAcceAxisCount.vi	463
SpatialGetAcceMax.vi	465
SpatialGetAcceMin.vi	466
SpatialGetAngRate.vi	468
SpatialGetAngRateMax.vi	469
SpatialGetAngRateMin.vi	471
SpatialGetCompassAxisCount.vi	472
SpatialGetDataRate.vi	473
SpatialGetDataRateMax.vi	475
SpatialGetDataRateMin.vi	476
SpatialGetGyroAxisCount.vi	477
SpatialGetMagField.vi	479
SpatialGetMagFieldMax.vi	480
SpatialGetMagFieldMin.vi	482
SpatialOpen.vi	483
SpatialResetCompassCorrectionParameters.vi	485

SpatialSetCompassCorrectionParameters.vi	486
SpatialSetDataRate.vi	488
SpatialZeroGyro.vi	489
16 Stepper.....	490
StepperCreate.vi	490
StepperEventCloseCurrentVelocity.vi	491
StepperEventCloseInput.vi	493
StepperEventClosePosition.vi	494
StepperEventClosePosition71.vi	495
StepperEventCreateCurrent.vi	496
StepperEventCreateInput.vi	498
StepperEventCreatePosition.vi	499
StepperEventCreatePosition71.vi	500
StepperEventCreateVelocity.vi	501
StepperEventExeCurrentVelocity.vi	503
StepperEventExeInput.vi	504
StepperEventExePosition.vi	506
StepperEventExePosition71.vi	508
StepperGetAcceleration.vi	509
StepperGetAccelerationMax.vi	511
StepperGetAccelerationMin.vi	512
StepperGetCurrent.vi	514
StepperGetCurrentLimit.vi	515
StepperGetCurrentMax.vi	516
StepperGetCurrentMin.vi	518
StepperGetCurrentPosition.vi	519
StepperGetCurrentPosition71.vi	521
StepperGetEngaged.vi	522
StepperGetPositionMax.vi	524
StepperGetPositionMax71.vi	525
StepperGetPositionMin.vi	527
StepperGetPositionMin71.vi	528
StepperGetTargetPosition.vi	530
StepperGetTargetPosition71.vi	531
StepperGetVelocity.vi	532
StepperGetVelocityLimit.vi	534
StepperGetVelocityMax.vi	535
StepperGetVelocityMin.vi	537
StepperInputCount.vi	538
StepperInputState.vi	540
StepperMotorCount.vi	541
StepperOpen.vi	542
StepperSetAcceleration.vi	544
StepperSetCurrentLimit.vi	545
StepperSetCurrentPosition.vi	547
StepperSetCurrentPosition71.vi	548
StepperSetEngaged.vi	550
StepperSetTargetPosition.vi	551
StepperSetTargetPosition71.vi	553
StepperSetVelocityLimit.vi	554
StepperStoppedState.vi	555
17 TemperatureSensor.....	557
TempCreate.vi	557

TempEventClose.vi	558
TempEventCreate.vi	559
TempEventExe.vi	561
TempGetAmbient.vi	562
TempGetAmbientMax.vi	564
TempGetAmbientMin.vi	565
TempGetPotential.vi	566
TempGetPotentialMax.vi	568
TempGetPotentialMin.vi	569
TempGetTemperature.vi	571
TempGetTemperatureMax.vi	572
TempGetTemperatureMin.vi	573
TempGetThermocoupleType.vi	575
TempGetTrigger.vi	576
TempInputCount.vi	578
TempOpen.vi	579
TempSetThermocoupleType.vi	581
TempSetTrigger.vi	582
18 TextLCD.....	583
TextCreate.vi	583
TextGetBacklightState.vi	585
TextGetBrightness.vi	586
TextGetColumnCount.vi	587
TextGetContrast.vi	589
TextGetCursorBlinkState.vi	590
TextGetCursorState.vi	592
TextGetRowCount.vi	593
TextGetScreenCount.vi	594
TextGetScreenIndex.vi	596
TextGetScreenSize.vi	597
TextOpen.vi	599
TextReset.vi	600
TextSetBacklightState.vi	601
TextSetBrightness.vi	603
TextSetCharacter.vi	604
TextSetContrast.vi	606
TextSetCursorBlinkState.vi	607
TextSetCursorState.vi	608
TextSetDisplayChar.vi	610
TextSetDisplayString.vi	611
TextSetScreenIndex.vi	613
TextSetScreenSize.vi	614

Part VI Phidgets Constants

616

1 CodeInfo.....	616
2 Frequency Filter Mode.....	616
3 IREncoding.....	616
4 IRLength.....	617
5 ServoType.....	617
6 ThermocoupleType.....	618

Index

0

1 Welcome to Phidgets



July 2014, Version 2.1.8

This help system includes information about LabVIEW programming for each Phidget device. It contains programming concepts, step-by-step instructions, and reference information about VIs, functions and palettes.

To navigate this help system, use the **Contents** and **Search** tabs to the left of this window.

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

This help system may link to Portable Document Format (PDF) versions of documents. You must have Adobe Reader installed to view or search the PDF versions of these manuals.



Note: (Mac OS X) Phidgets recommends that you use Safari 1.3.2 or later or Firefox 1.0.2 or later to view the *Help*. **(Linux)** Phidgets recommends that you use Mozilla 1.2 or later or Firefox 1.0.2 or later to view the *Help*.

2 Introduction

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

This manual documents the Phidgets software programming model in National Instruments Labview language. The [Programming Concept](#) should be the first section to be read for someone beginning to use Phidgets. After the concepts described are understood, users can read [Phidgets Common](#) and [Specific Modules](#) for function reference and device documentation in general. Note that these sections are light on function documentation - generally only containing specific reference information and basic function information.

For a more detailed introduction, please refer to [Understanding Phidgets](#) and [Platform Support](#).

2.1 Understanding Phidgets

Hardware Model

All Phidgets are connected to the computer using USB. Most computers support up to 127 USB devices (or more), so it is easy to connect as many Phidgets as are required for almost any project. Phidgets can be connected either directly to a computer or through Hubs, but there are some limitations.

The maximum cable length for USB is 15 feet. This is a maximum distance between device and computer, even if there are one or more Hubs in between. There are cable extenders available on the market, but these can be unreliable and are not endorsed by Phidgets Inc. Users should never try to run USB over anything other than a certified USB cable, and should never try to run it longer than the spec.

Phidgets run as USB 1.1 low speed or full speed devices, and are supported by both USB 1.1 and USB 2.0 hosts.

Software Model

The Phidgets Labview library is written under the C library - phidget21, which implements the low-level protocols necessary to communicate with the Phidgets, and exports a unified interface to the software programmer. This also makes the Phidgets Labview library cross-platform.

The Phidget Labview library contains only glue logic for interfacing with the C library, thus making maintenance much easier. It should be noted the library employs threading and events extensively. (See Programming Concept for more information.)

2.2 Platform Support

Operating System Support

Windows

Microsoft Windows 2000 and later are supported, including 64-bit editions. The Windows libraries are installed using an MSI installer that can be found on the Phidgets web site. This installs the C library, the .NET library, the COM library, the Java library, the Phidget Web Service and the Phidget Control Panel.

The Phidget Control Panel is represented by a “Ph” icon that runs in the system tray (usually on the right end of the Windows task bar). This program can be used to list and control any Phidgets attached to the system, and to control the Web Service.

Mac OS X

Mac OS X 10.3.9 and newer on Intel and PPC are supported. The Mac libraries are distributed in a .dmg and are installed using a standard Mac package installer. This installs the C library, the Kernel driver, the Java library, the Phidget Web Service and the Phidget Preference Pane.

The Phidget Preference Pane is a preference pane which resides in System Preferences. This program can be used to list and control any Phidgets attached to the system, and to control the Web Service.

Linux

Linux version 2.4 is supported, including 64-bit editions, but 2.6.7 or newer is recommended. The Linux libraries are distributed as source. The source for the C library, with optional JNI (Java support) extensions and the source for the Phidget Web Service are available as a .tar.gz. The included Makefile makes it easy to build and install the libraries on most Linux distribution.

Other

Other Operating System support is not currently available.

Labview Version Support

The Phidgets Labview library supports 32-bit Labview version 7.1.1 or higher. It also supports 64-bit Labview version 2009 or higher.



Note: If you use Labview 64-bit, you need to install the Phidgets Labview 64-bit

library.

3 Programming Concept

This manual is designed such that both novice and expert users can quickly reference the various Phidget LabVIEW functions.

The manual is subdivided into 6 sections: [Getting Started](#), [Event Handler](#), [Multiple Devices](#), [Phidgets Common](#), [Specific Modules](#) and [Phidgets Constants](#).

Each section is defined as follow:

Getting Started: tells users how to communicate with phidgets and perform some basic functions. Use the [Getting Started](#) manual as a tutorial to familiarize yourself with Phidget LabVIEW functions and basic features you use to build data acquisition and instrument control applications.

Event Handler: needs only be used in applications that need to receive events. Use the [Event Handler](#) manual as a tutorial to learn how to construct the event and use the handler.

Multiple Devices: needs only be used in applications that involve multiple phidgets. Use the [Multiple Devices](#) manual as a tutorial to configure and control many phidgets in one VI.

Phidgets Common: contains the common functions for all phidgets.

Specific Modules: contains all the functions for specific phidgets.

Phidgets Constants: explains all Phidgets pre-defined constants.



Note: It is important for user to upgrade the Phidgets21 library to the most recent version. Click [here](#) to check and download the latest version library.

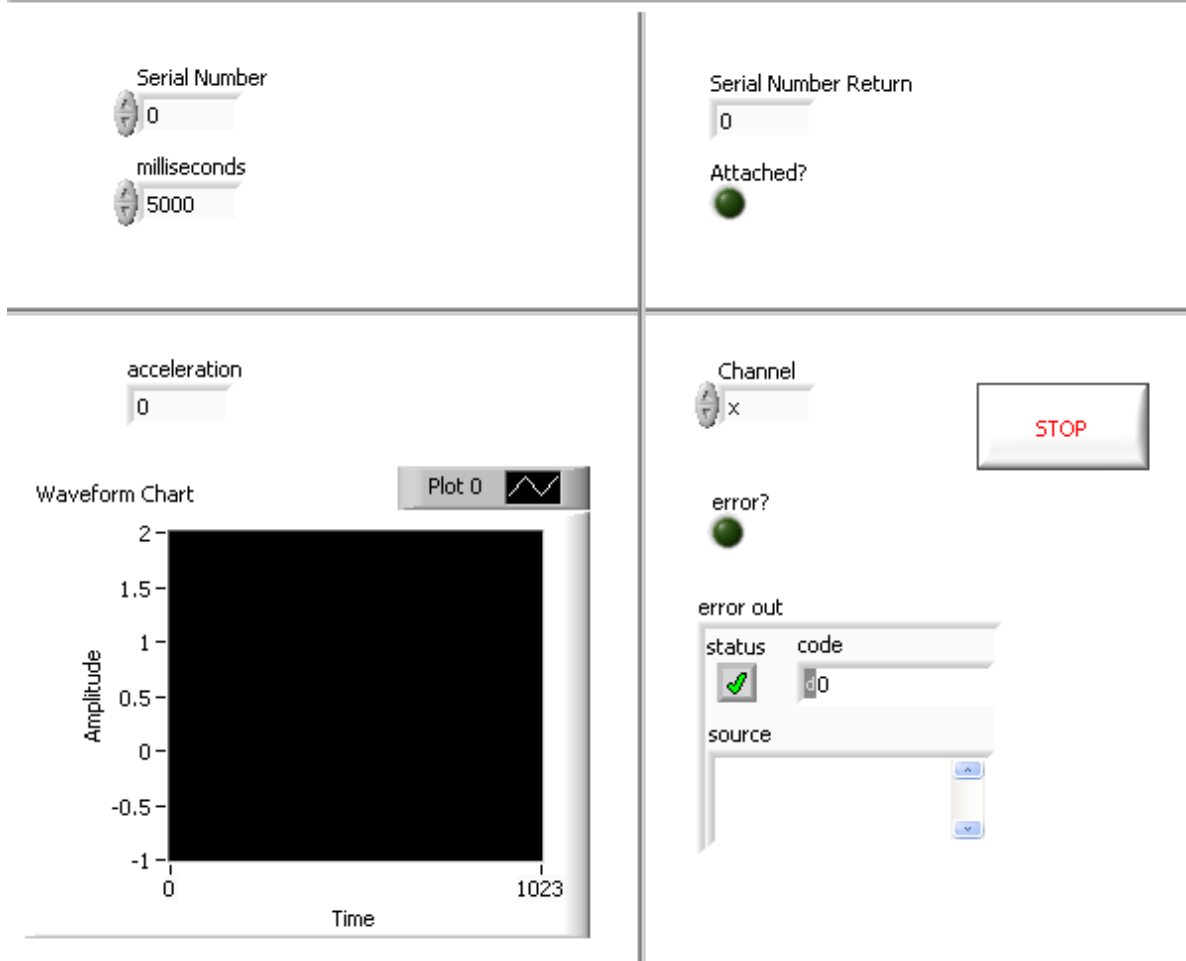
3.1 Getting Started

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

As such, the Phidgets Labview VI features a very simple and easy-to-use set of VIs. At the simplest level, all you have to do to control a Phidget is explained in this section.

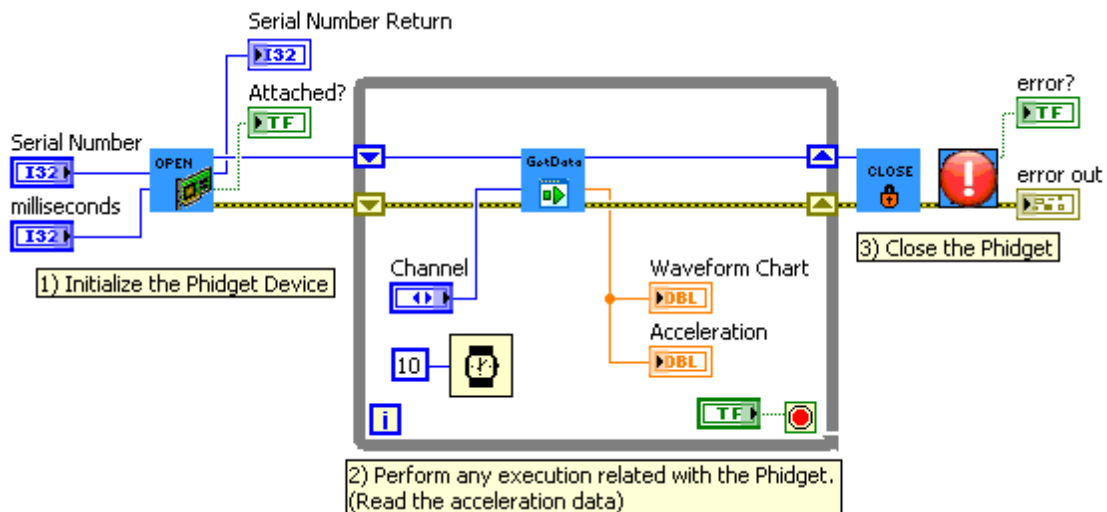
For illustration purposes, Phidget Accelerometer will be used.

Phidgets Accelerometer Example



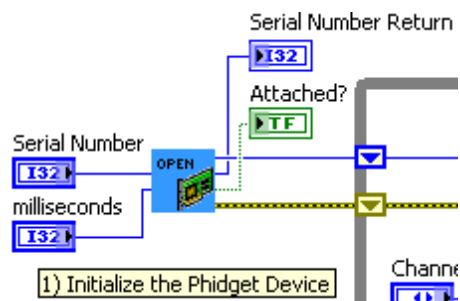
Note: For a more specific illustration on different phidgets, users can refer to different examples accordingly.

Open the diagram of the "Single control example.vi" under the "Accelerometer" folder.



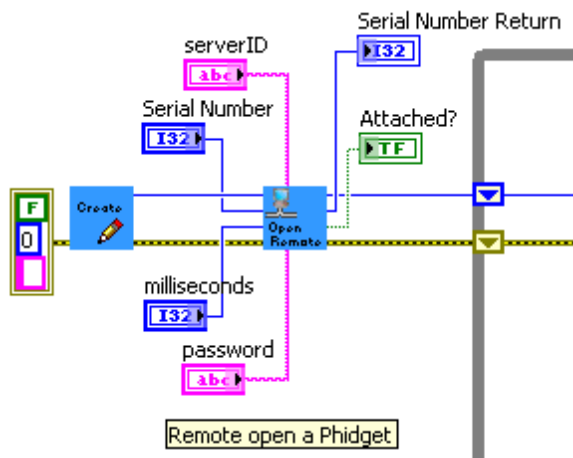
Phidgets can be programmed into 3 steps:

<Step1> Initialize the Phidget. This includes opening a Phidget hardware, creating a Phidget handler or setting up parameters of a Phidget.

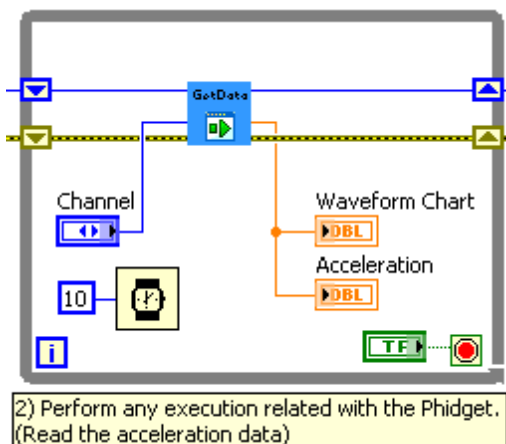


Users can also acquire other information in this step. For more details, please refer to the example called "Remote Example.vi" under "TemperatureSensor" folder.

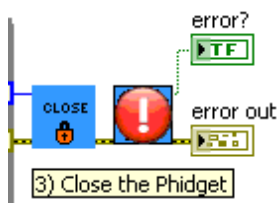
If users want to open Phidgets over the network, a **PhidgetOpenRemote** and **AcceCreate** functions will be called instead of **AcceOpen**.



<Step2> Perform any execution related with the Phidget. This includes data acquisition, device control, event execution etc.



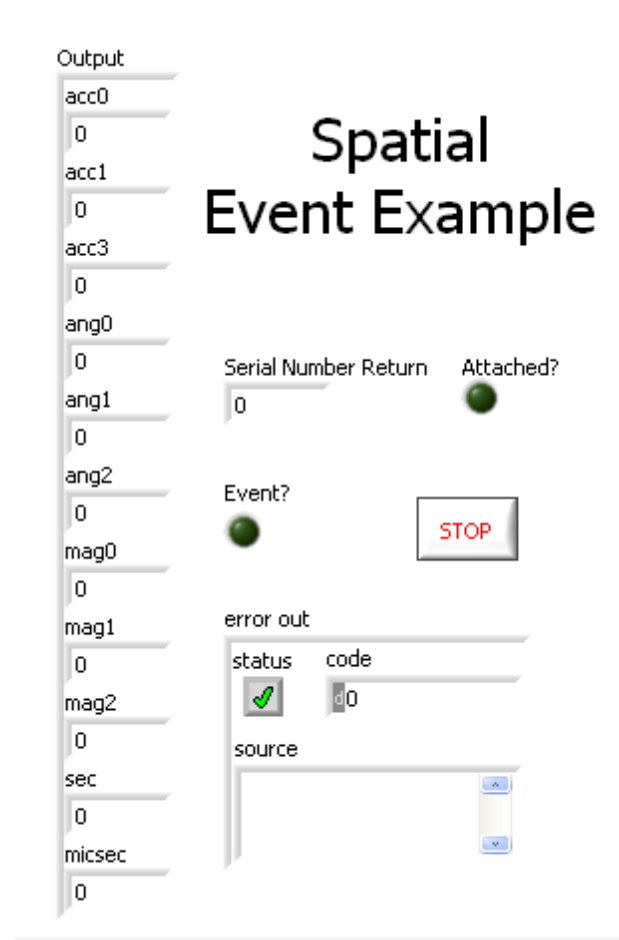
<Step3> Close the Phidget. This may include closing the device, releasing all the resources or freeing a Phidget handle and an error handler.



3.2 Event Handler

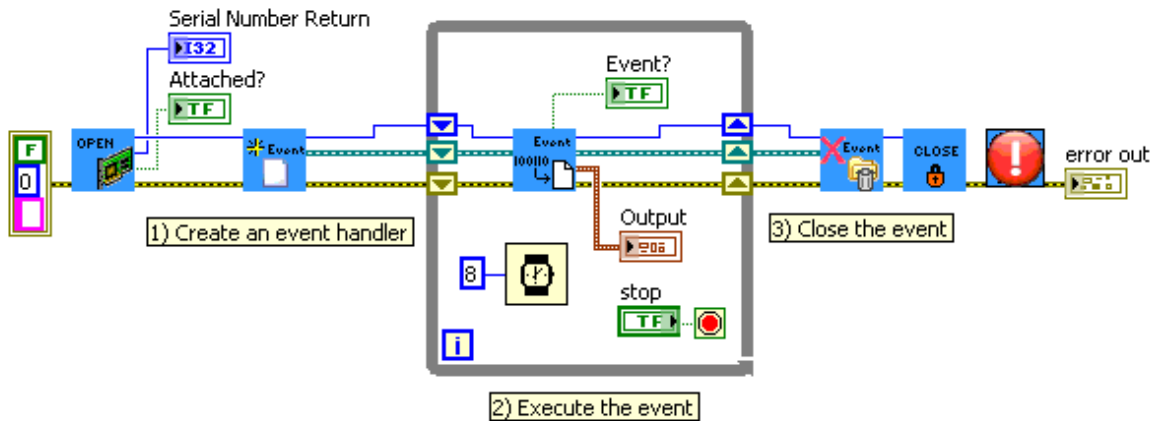
This demonstrates how to call a Phidgets event and how to use them.

For illustration purposes, Phidget Spatial will be used.



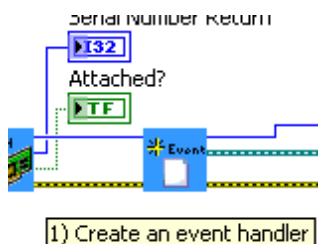
Note: For a more specific illustration on different phidgets, users can refer to different examples accordingly.

Open the diagram of the "Spatial event example.vi" under the "Spatial" folder.

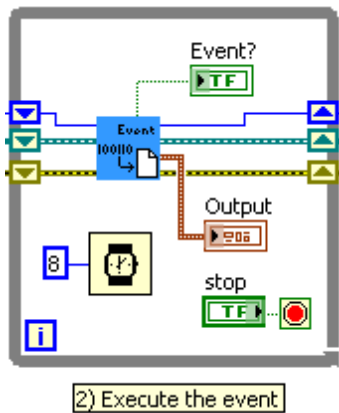


Phidgets Event can be programmed into 3 steps:

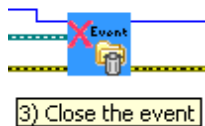
<Step1> Create an event handler.



<Step2> Perform any event execution related with the Phidget.



<Step3> Close the related event.

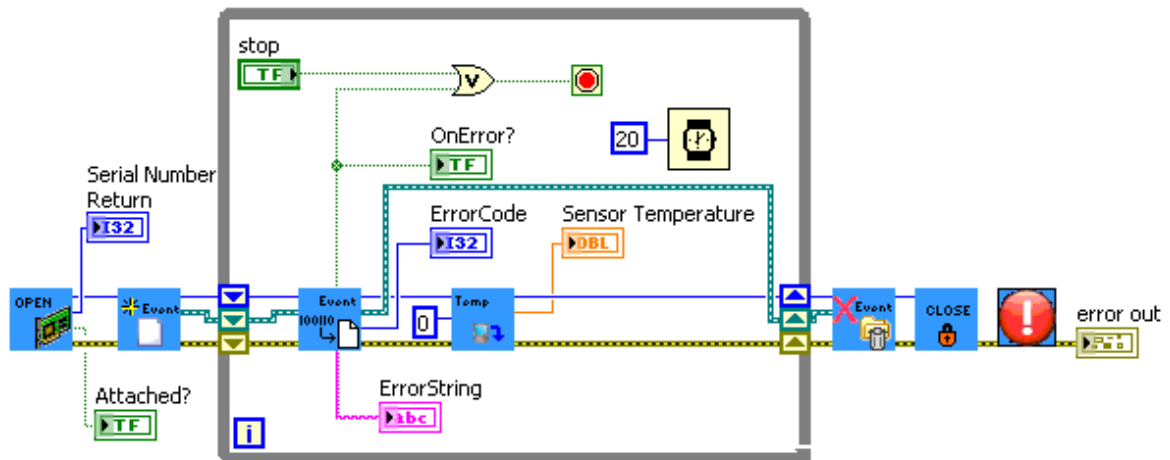


Note: When execute an event, please make sure "create", "execute" and "close" the same event. For example, user wants to run an Event called A. He has to place "CreateEventA.vi", "ExeEventA.vi" and "CloseEventA.vi" on the block diagram. He cannot place "CloseEventB.vi" instead of "CloseEventA.vi". However, for some Phidgets event, they share same VIs. (For more details, please refer to specific Phidgets.)

Phidget Error Event:

Another useful example will be "Temp On Error.vi" under "TemperatureSensor" folder.

In this example, the error event is actually located in "Common Functions" folder. It will detect asynchronous errors from Phidgets.

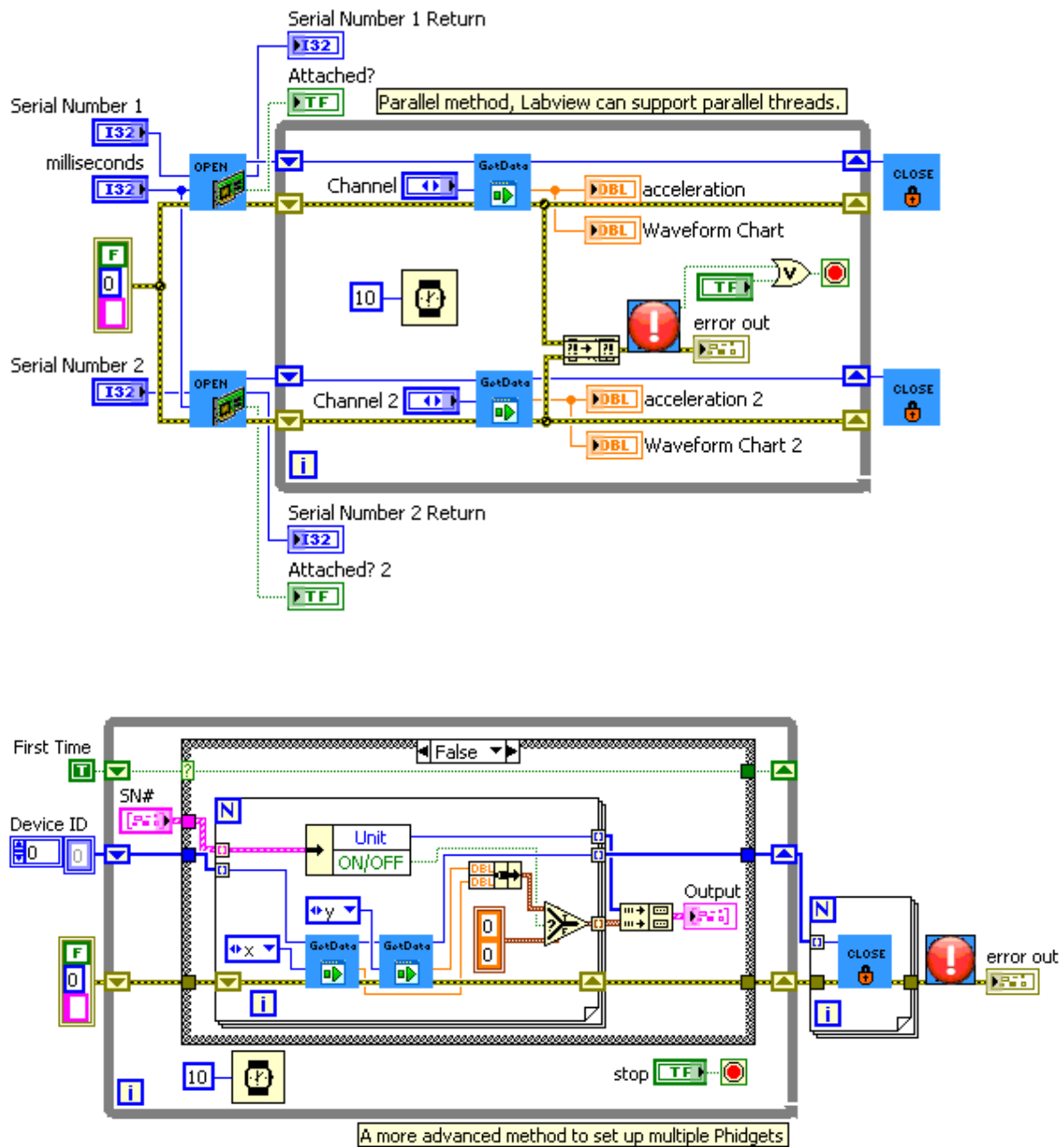


Note: Phidgets can also support multiple events. For an example, please refer to "Event handler example.vi" under the "InterfaceKit" folder.

3.3 Multiple Devices

Phidgets Labview can control multiple phidgets. As long as the handlers are different, different phidgets can run in parallel.

For a more detailed illustration, please refer to the example of "Multiple control example (Parallel).vi" and "Multiple control example (Advanced).vi" under the "Accelerometer" folder.



Note: Another example will be "TemperatureDisplay.vi" under "TextLCD" folder. This example shows how to combined use different phidgets.

4 Phidgets Common

This section describes the VI functions used by all Phidgets. The SubVI folder contains advanced LabVIEW VIs

4.1 ErrorHandler.vi

ErrorHandler.vi

Create a Phidget Error handler



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error?

TRUE if error occurs

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.

4.2 PhidgetClose.vi

PhidgetClose.vi

Close a Phidget device



Device In

Device # Identification.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

4.3 PhidgetDelete.vi

PhidgetDelete.vi

Delete a Phidget device handle



Device In

Device # Identification.

error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



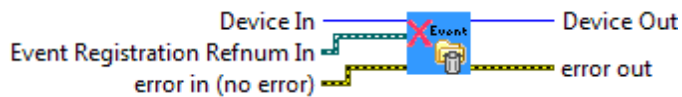
source

source string describes the origin of the error or warning.

4.4 PhidgetEventCloseOnError.vi

PhidgetEventCloseOnError.vi

Close a Phidget error event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or



warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

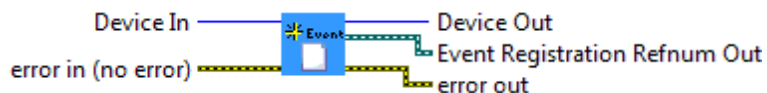
source

source string describes the origin of the error or warning.

4.5 PhidgetEventCreateOnError.vi

PhidgetEventCreateOnError.vi

Create a Phidget error event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out



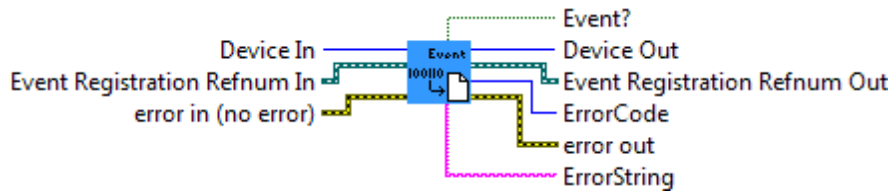
Event # Identification



4.6 PhidgetEventExeOnError.vi

PhidgetEventExeOnError.vi

This is called when an asynchronous error occurs.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



ErrorCode

The error code to get the description of



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event?

Returns TRUE if the event has executed, or FALSE otherwise.

Event Registration Refnum Out

Same as the Event Registration Refnum In.

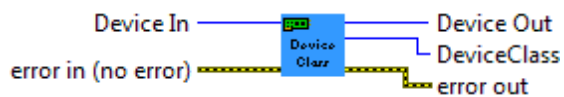
ErrorString

Contain the error description string.

4.7 PhidgetGetDeviceClass.vi

PhidgetGetDeviceClass.vi

Get the class of a Phidget



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

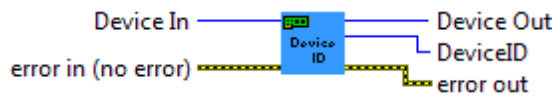
DeviceClass

Returns the device class constant

4.8 PhidgetGetDeviceID.vi

PhidgetGetDeviceID.vi

Get the device ID of a Phidget



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

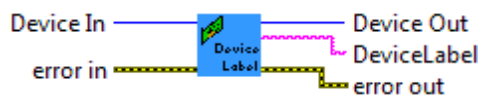
DeviceID

Returns the device ID constant

4.9 PhidgetGetDeviceLabel.vi

PhidgetGetDeviceLabel.vi

Get the label of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

DeviceLabel

Returns the device label

4.10 PhidgetGetDeviceName.vi

PhidgetGetDeviceName.vi

Get the specific name of a Phidget

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error



or warning.

Device In

Device # Identification.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

DeviceName

Returns the device name

4.11 PhidgetGetDeviceType.vi

PhidgetGetDeviceType.vi

Get the type (class) of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

DeviceType

Returns the device type

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

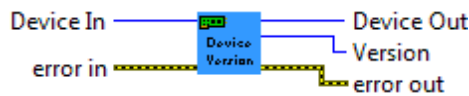
Device Out

Same as Device In

4.12 PhidgetGetDeviceVersion.vi

PhidgetGetDeviceVersion.vi

Get the firmware version of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In



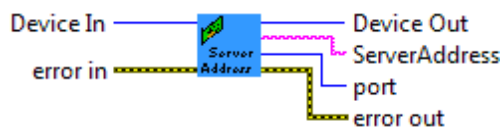
Version

Returns the device version

4.13 PhidgetGetServerAddress.vi

PhidgetGetServerAddress.vi

Get the address and port of a remotely opened Phidget. This will fail if the Phidget was opened locally



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



ServerAddress

Returns the address



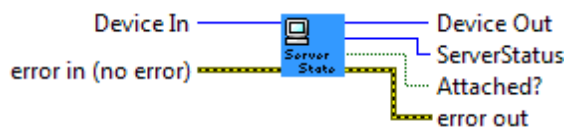
port

Returns the port number

4.14 PhidgetGetServerStatus.vi

PhidgetGetServerStatus.vi

Get the connected to server status of a remotely opened Phidget. This will fail if the Phidget was opened locally



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



ServerStatus

Returns the server status. Possible values are 0 for unattached, 1 for attached and others for undefined



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

4.15 PhidgetGetServiceID.vi

PhidgetGetServiceID.vi

Get the server ID of a remotely opened Phidget. This will fail if the Phidget was opened locally



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out



Same as Device In

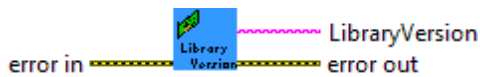
ServiceID

Returns the server ID

4.16 PhidgetLibraryVersion.vi

PhidgetLibraryVersion.vi

Get the library version. This contains a version number and a build date



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



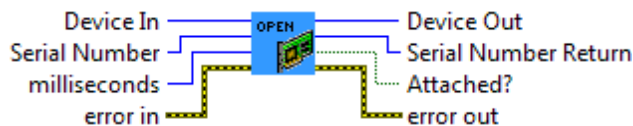
LibraryVersion

Returns the library version

4.17 PhidgetOpen.vi

PhidgetOpen.vi

Open a Phidget locally



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

I32

TF

error out

TF

I32

abc

I32

Device # Identification. This function will create a new device identification if it's 0

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

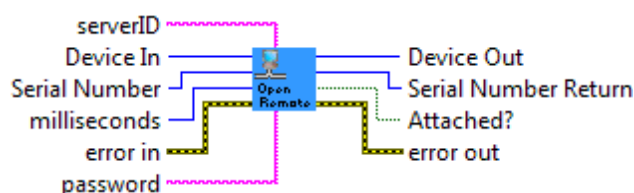
Device Out

Same as Device In

4.18 PhidgetOpenRemote.vi

PhidgetOpenRemote.vi

Open a Phidget remotely by ServerID. Note that this requires Bonjour (mDNS) to be running on both the host and the server



**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**Serial Number**

Serial Number. Specify -1 to open any.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid

**serverID**

Server ID. Specify NULL to open any

**password**

Password. Can be NULL if the server is running without password

**Serial Number Return**

Serial Number of the opened phidget

**Attached?**

Returns TRUE is the device successfully attached, or FALSE otherwise.

**error out**



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

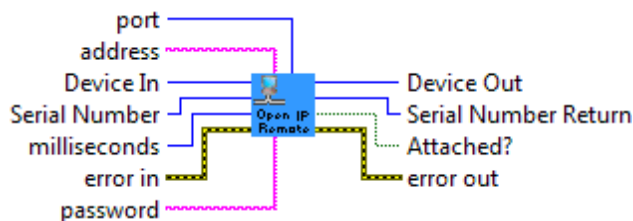
Device Out

Same as Device In

4.19 PhidgetOpenRemoteIP.vi

PhidgetOpenRemoteIP.vi

Open a Phidget remotely by address and port



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

Serial Number

Serial Number. Specify -1 to open any.

error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid.

address

Address. This can be a hostname or IP address

password

Password. Can be NULL if the server is running without password

port

Port number. Default is 5001

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



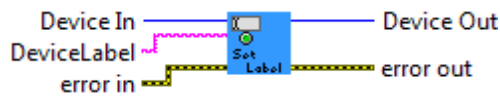
Device Out

Same as Device In

4.20 PhidgetSetDeviceLabel.vi

PhidgetSetDeviceLabel.vi

Set the label of a Phidget. Note that this is not supported on very old Phidgets, and not yet supported in Windows



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



DeviceLabel



The label to be set

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

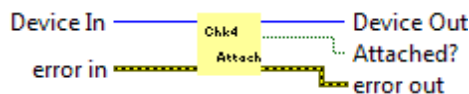
Same as Device In

4.21 Subvi

4.21.1 _AttachCHK.vi

_AttachCHK.vi

Get the attach state of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code





code is the error or warning code.

source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In



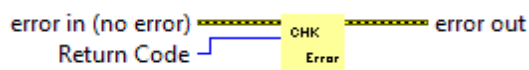
Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

4.21.2 _ChkError.vi

_ChkError.vi

Check the error of a Phidget



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Return Code

The error code to get the description of.

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

4.21.3 _Close.vi

_Close.vi

Close a Phidget device



Device In

Device # Identification.

error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source string describes the origin of the error or warning.

4.21.4 _Delete.vi

_Delete.vi

Delete a Phidget handler



Device In

Device # Identification.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



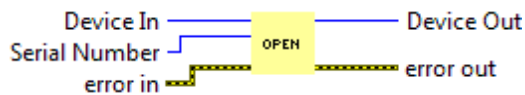
code



4.21.5 _Open.vi

_Open.vi

Open a Phidget device



code is the error or warning code.

source

source string describes the origin of the error or warning.

error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

Serial Number

Serial Number. Specify -1 to open any.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

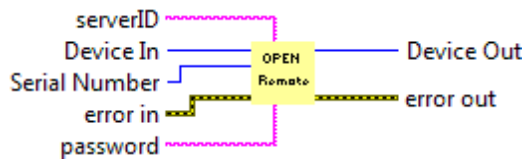
Device Out

Same as Device In

4.21.6 _OpenRemote.vi

_OpenRemote.vi

Open a Phidget remotely by ServerID. Note that this requires Bonjour (mDNS) to be running on both the host and the server



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

Serial Number

Serial Number. Specify -1 to open any.

serverID

Server ID. Specify NULL to open any

password

Password. Can be NULL if the server is running without password

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

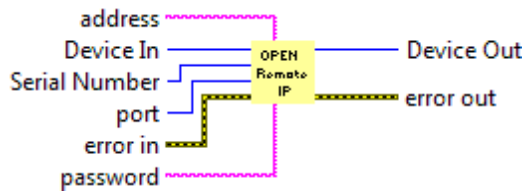
Device Out

Same as Device In

4.21.7 _OpenRemoteIP.vi

_OpenRemoteIP.vi

Open a Phidget remotely by address and port



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

Serial Number

Serial Number. Specify -1 to open any.

address

Address. This can be a hostname or IP address

password

Password. Can be NULL if the server is running without password

port

Port number. Default is 5001

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



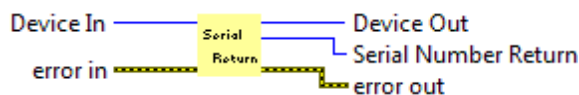
Device Out

Same as Device In

4.21.8 _SerialReturn.vi

_SerialReturn.vi

Return the serial number of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In



Device # Identification.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In

Serial Number Return

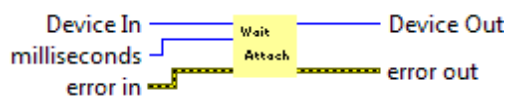
Serial Number of the opened phidget



4.21.9 _WaitAttach.vi

_WaitAttach.vi

Wait until a Phidget attached



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or





that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

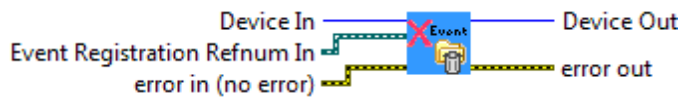
Device Out

Same as Device In

4.21.10 EventCloseIntDouble.vi

EventCloseIntDouble.vi

Close the event handler which contains an integer and a double event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

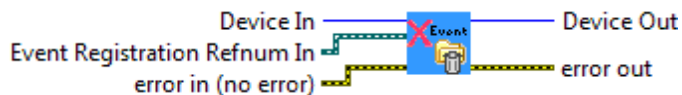
source

source string describes the origin of the error or warning.

4.21.11 EventCloseIntInt.vi

EventCloseIntInt.vi

Close the event handler which contains an integer and an integer event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

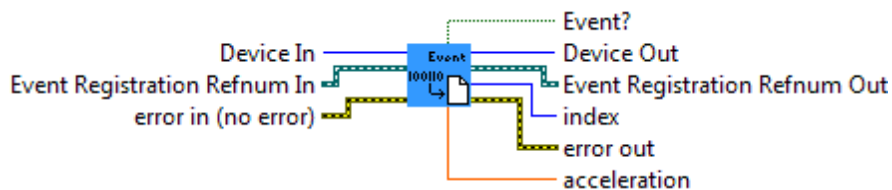
source string describes the origin of the error or warning.



4.21.12 EventExeIntDouble.vi

EventExeIntDouble.vi

Call the event handler which contains an integer and a double event variables. This should not be directly accessed by users



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status





status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

acceleration

The double

index

The integer

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event Registration Refnum Out

Event # Identification



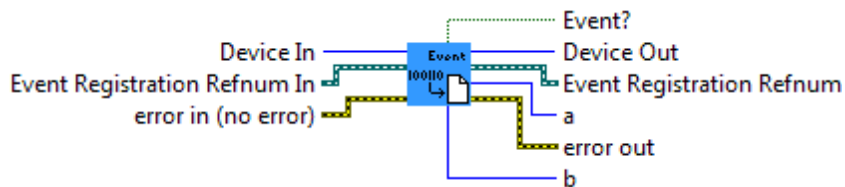
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

4.21.13 EventExeIntInt.vi

EventExeIntInt.vi

Call the event handler which contains an integer and an integer event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

**a**

The 1st integer

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum**

Event # Identification

**b**

The 2nd integer

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5 Specific Modules

This section describes each of the VI function used by different Phidgets. All the VI functions are located in its dll folder correspondingly.



Note: Refer to the Product manual for your Phidget and the C Programming Manual for more detailed, language unspecific API documentation.

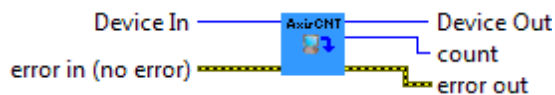
Please select a specified module accordingly.

5.1 Accelerometer

5.1.1 AcceAxisCount.vi

AcceAxisCount.vi

Get the number of acceleration axes supported by this accelerometer.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



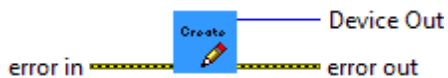
count

The number of axes

5.1.2 AcceCreate.vi

AcceCreate.vi

Create a Phidget Accelerometer handle.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

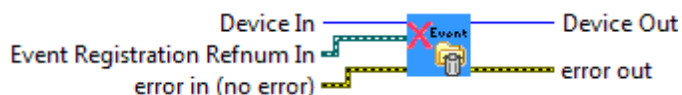
Device Out

The created Device # ID

5.1.3 AcceEventClose.vi

AcceEventClose.vi

Close the acceleration change event handle.



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

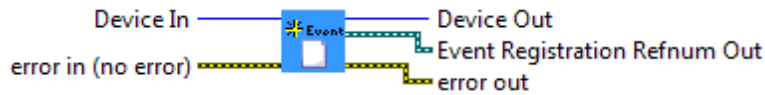
source string describes the origin of the error or warning.



5.1.4 AcceEventCreate.vi

AcceEventCreate.vi

Set up an acceleration change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

source

source string describes the origin of the error or warning.

B

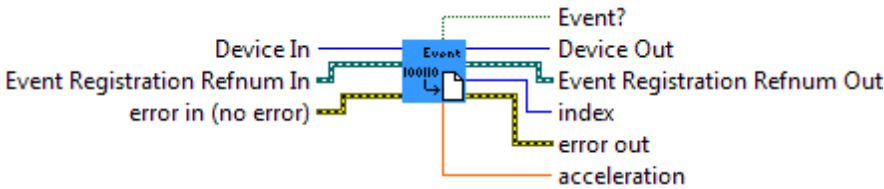
Event Registration Refnum Out

Event # Identification

5.1.5 AcceEventExe.vi

AcceEventExe.vi

This is called when the acceleration changes by more then the change trigger.



132

Device In

Device # Identification.

Err

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

source

source describes the origin of the error or



warning.

Event Registration Refnum In

Event # Identification

acceleration

The acceleration

index

The acceleration index.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event Registration Refnum Out

Same as the Event Registration Refnum In.

Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.1.6 AcceGetData.vi

AcceGetData.vi

Get the current acceleration data of an axis.



Device In

Device # Identification.



Channel

Channel of the device to open



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



acceleration

The acceleration



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.1.7 AcceGetMax.vi

AcceGetMax.vi

Get the maximum acceleration supported by an axis.



Device In

Device # Identification.

Channel

The acceleration index. (x, y, z)

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



acce_max

The maximum acceleration.



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



5.1.8 AcceGetMin.vi

AcceGetMin.vi

Get the minimum acceleration supported by an axis.



Device In



Device # Identification.

Channel

The acceleration index. (x, y, z)



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



acce_min

The minimum acceleration.



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



I32

abc

code**code** is the error or warning code.**source****source** describes the origin of the error or warning.

5.1.9 AcceGetTrigger.vi

AcceGetTrigger.vi

Get the change trigger for an axis.



I32

I32

TF

TF

I32

abc

I32

Device In

Device # Identification.

Channel

The acceleration index. (x, y, z)

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code**code** is the error or warning code.**source****source** describes the origin of the error or warning.**Device Out**



Same as Device In

Trigger Out

The change trigger.

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

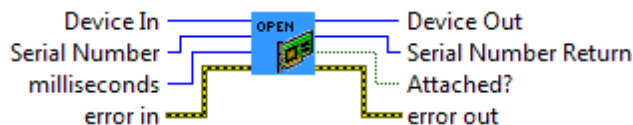
source

source describes the origin of the error or warning.

5.1.10 AcceOpen.vi

AcceOpen.vi

Open a Phidget Accelerometer.



Serial Number

Serial number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device In

Device # Identification.

Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

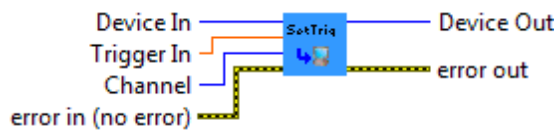


Same as Device In

5.1.11 AcceSetTrigger.vi

AcceSetTrigger.vi

Set the change trigger for an axis.



Device In

Device # Identification.

Channel

Channel of the device to open

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Trigger In

The change trigger.

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

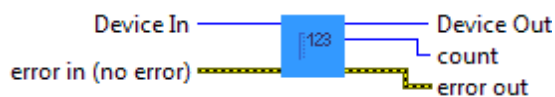
source describes the origin of the error or warning.

5.2 AdvancedServo

5.2.1 AdvServoCount.vi

AdvServoCount.vi

Gets the number of motors supported by this controller.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

count

The motor count.

5.2.2 AdvServoCreate.vi

AdvServoCreate.vi

Create a Phidget Advanced Servo handle.



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

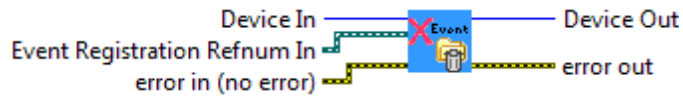
Device Out

Device # identification.

5.2.3 AdvServoEventClose.vi

AdvServoEventClose.vi

Close the Phidget Advanced Servo event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

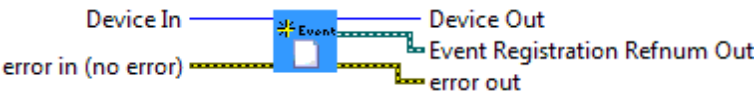
source

source string describes the origin of the error or warning.

5.2.4 AdvServoEventCreateCrtChange.vi

AdvServoEventCreateCrtChange.vi

Set up a current change event handle.



132

Device In

Device # Identification.

error in (no error)

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

source

source describes the origin of the error or warning.

132

Device Out

Same as Device In

error out

error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Event Registration Refnum Out

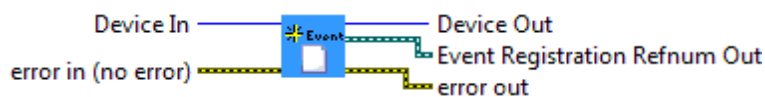
Event # Identification



5.2.5 AdvServoEventCreatePosChange.vi

AdvServoEventCreatePosChange.vi

Set up a position change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



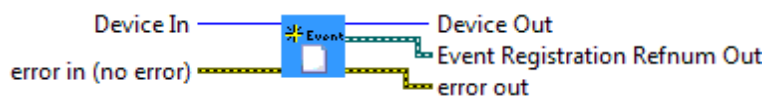
Event Registration Refnum Out

Event # Identification

5.2.6 AdvServoEventCreateVelChange.vi

AdvServoEventCreateVelChange.vi

Set up a velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



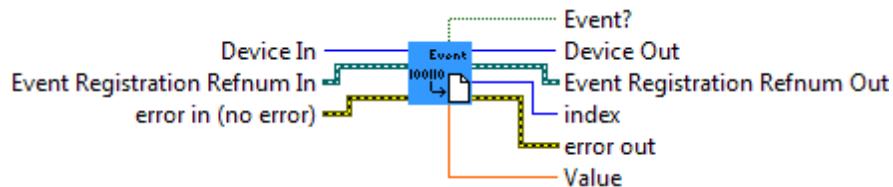
Event Registration Refnum Out

Event # Identification

5.2.7 AdvServoEventExe.vi

AdvServoEventExe.vi

This is called when the Phidget Advanced Servo event changes.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Value

The return value of related event. (E.g.: For a position change event, this value is position.)



index



The motor index.

Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In.



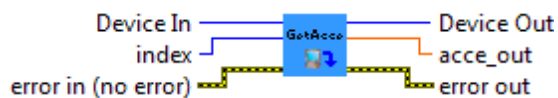
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.2.8 AdvServoGetAcce.vi

AdvServoGetAcce.vi

Get the last set acceleration of a motor



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

**acce_out**

The acceleration

5.2.9 AdvServoGetAcceMax.vi

AdvServoGetAcceMax.vi

Get the maximum acceleration supported by a motor.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

accemax_out

The maximum acceleration

5.2.10 AdvServoGetAcceMin.vi

AdvServoGetAcceMin.vi

Get the minimum acceleration supported by a motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

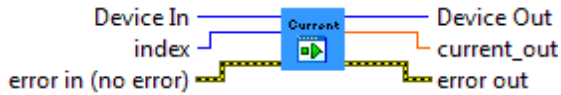
acemin_out

The minimum acceleration

5.2.11 AdvServoGetCurrent.vi

AdvServoGetCurrent.vi

Get the current current draw for a motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

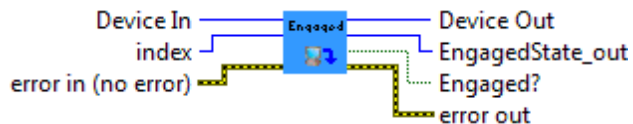
current_out

The current

5.2.12 AdvServoGetEngaged.vi

AdvServoGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EngagedState_out

The engaged state. Possible values are 0 for False, 1 for True and others for undefined



Engaged?

The engaged state. Possible values are True for Engaged and False for Not Engaged

5.2.13 AdvServoGetPos.vi

AdvServoGetPos.vi

Get the current position of a motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

pos_out

The position.

5.2.14 AdvServoGetPosMax.vi

AdvServoGetPosMax.vi

Get the maximum position that a motor can go to.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

posmax_out

The maximum position

5.2.15 AdvServoGetPosMin.vi

AdvServoGetPosMin.vi

The minimum position



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

posmin_out

The minimum position

5.2.16 AdvServoGetRampingState.vi

AdvServoGetRampingState.vi

Get the speed ramping state for a motor. This is whether or not velocity and acceleration are used



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

RampingState_out

The speed ramping state. Possible values are 0 for False, 1 for True and others for undefined.

RampingState?

The speed ramping state (Boolean type).

5.2.17 AdvServoGetServoType.vi

AdvServoGetServoType.vi

Get the servo type of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

I32

abc

I32

that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

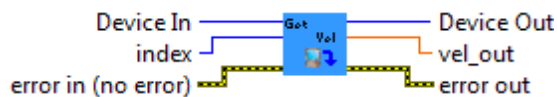
GetServoType

Returns the servo type. This is an enum. Please refer to [Phidgets Constants](#) -> [ServoType](#)

5.2.18 AdvServoGetVel.vi

AdvServoGetVel.vi

Get the current velocity of a motor.



I32

F32

TF

I32

abc

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

vel_out

The current velocity

5.2.19 AdvServoGetVelLmt.vi

AdvServoGetVelLmt.vi

Get the last set velocity limit of a motor.



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



vellim_out

The velocity limit

5.2.20 AdvServoGetVelMax.vi

AdvServoGetVelMax.vi

Get the maximum velocity that can be set for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**velmax_out**

The maximum velocity

5.2.21 AdvServoGetVelMin.vi**AdvServoGetVelMin.vi**

Get the minimum velocity that can be set for a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

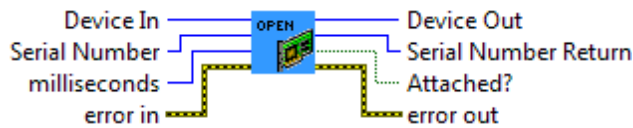
source describes the origin of the error or warning.

velmin_out

The minimum velocity

5.2.22 AdvServoOpen.vi

AdvServoOpen.vi



I32

Serial Number

Serial Number. Specify -1 to open any.

I32

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

F

error in

error out passes error or warning information out of a VI to be used by other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

code

code is the error or warning code.

abc

source

source string describes the origin of the error or warning.

I32

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid.

I32

Serial Number Return

Serial Number of the opened phidget

TF

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



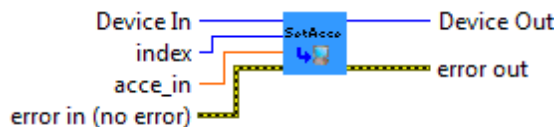
Device Out

Same as Device In

5.2.23 AdvServoSetAcce.vi

AdvServoSetAcce.vi

Set the acceleration for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

acce_in

The acceleration

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

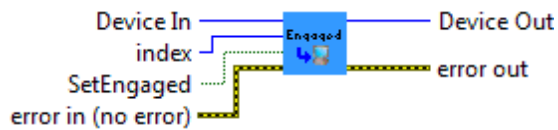
source

source describes the origin of the error or warning.

5.2.24 AdvServoSetEngaged.vi

AdvServoSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

SetEngaged

Set the engage state.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

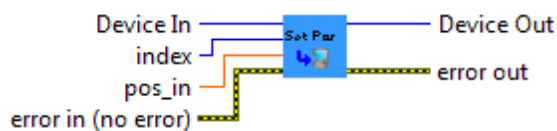
source

source describes the origin of the error or warning.

5.2.25 AdvServoSetPos.vi

AdvServoSetPos.vi

Set the position of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

pos_in

The position

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

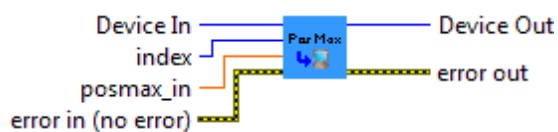
source

source describes the origin of the error or warning.

5.2.26 AdvServoSetPosMax.vi

AdvServoSetPosMax.vi

Set the maximum position that a motor can go to.



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



posmax_in

The maximum position



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

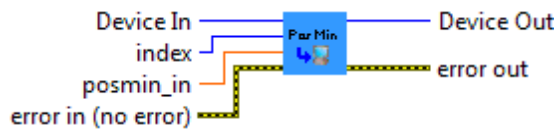
source

source describes the origin of the error or warning.

5.2.27 AdvServoSetPosMin.vi

AdvServoSetPosMin.vi

Set the minimum position that a motor can go to.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

posmin_in

The minimum position





index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



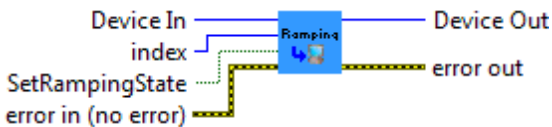
source

source describes the origin of the error or warning.

5.2.28 AdvServoSetRampingState.vi

AdvServoSetRampingState.vi

Set the speed ramping state for a motor. This is whether or not velocity and acceleration are used



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

SetRampingState

The speed ramping state. (0 = False 1 = True)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

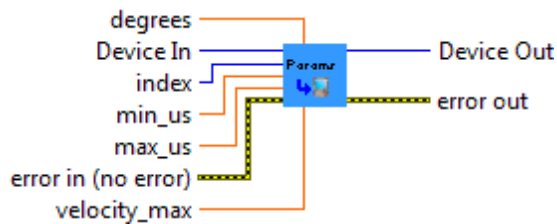
source describes the origin of the error or

warning.

5.2.29 AdvServoSetServoParameters.vi

AdvServoSetServoParameters.vi

Set the servo parameters of a motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

min_us

The minimum supported PCM in microseconds

**max_us**

The maximum supported PCM in microseconds

**degrees**

The degrees of rotation defined by the given PCM range

**velocity_max**

The maximum velocity in degrees/second

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

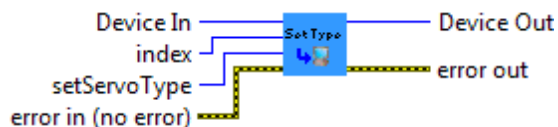
**source**

source describes the origin of the error or warning.

5.2.30 AdvServoSetServoType.vi

AdvServoSetServoType.vi

Set the servo type of a motor





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



setServoType

The servo type. This is an enum. Please refer to [Phidgets Constants](#) -> [ServoType](#)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

I32

abc

that no error occurred.

code

code is the error or warning code.

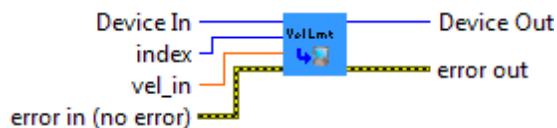
source

source describes the origin of the error or warning.

5.2.31 AdvServoSetVelLmt.vi

AdvServoSetVelLmt.vi

Set the velocity limit for a motor



I32

F

TF

I32

abc

DBL

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

vel_in



The velocity limit

index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



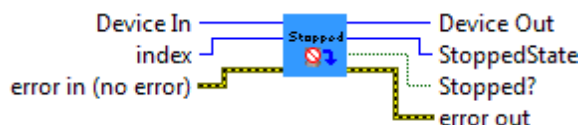
source

source describes the origin of the error or warning.

5.2.32 AdvServoStoppedState.vi

AdvServoStoppedState.vi

Get the stopped state of a motor. This is true when the motor is not moving and there are no outstanding commands



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



StoppedState

The stopped state. Possible values are 0 for False, 1 for True and others for undefined

Stopped?

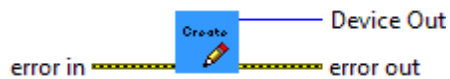
The stopped state (Boolean type). Possible values are True for Stopped and False for Not Stopped

5.3 Analog

5.3.1 AnalogCreate.vi

AnalogCreate.vi

Create a Phidget Analog device



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

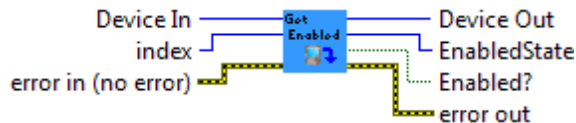
Device Out

The created device # ID

5.3.2 AnalogGetEnabled.vi

AnalogGetEnabled.vi

Get the enabled state of the device



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EnabledState

The enabled state. Possible values are 0 for False, 1 for True and others for undefined



Enabled?

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.3.3 AnalogGetVoltage.vi

AnalogGetVoltage.vi

Get the measured voltage



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The analog output index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

I32

abc

DBL

5.3.4 AnalogGetVoltageMax.vi

AnalogGetVoltageMax.vi

Gets the maximum voltage that can be output



I32

DBL

TF

I32

abc

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

voltage

The voltage

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

index

The analog output index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

VoltageMax

The maximum voltage

5.3.5 AnalogGetVoltageMin.vi

AnalogGetVoltageMin.vi

Gets the minimum voltage that can be output



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



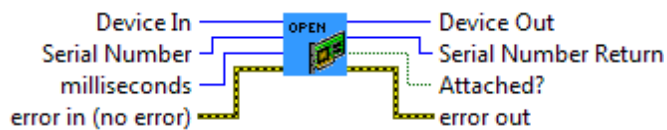
VoltageMin

The minimum voltage

5.3.6 AnalogOpen.vi

AnalogOpen.vi

Opens a Phidget Analog device



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In



Device # identification. This function will create a new device identification if it's 0 or invalid.

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

5.3.7 AnalogOutputCount.vi

AnalogOutputCount.vi

Gets the number of analog outputs on the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



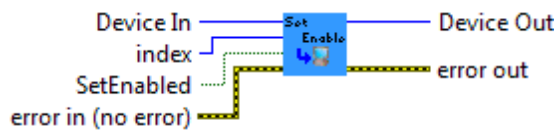
Count

The number of analog outputs on the device

5.3.8 AnalogSetEnabled.vi

AnalogSetEnabled.vi

Set the enabled state of the device



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The analog output index

SetEnabled

The enabled state

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

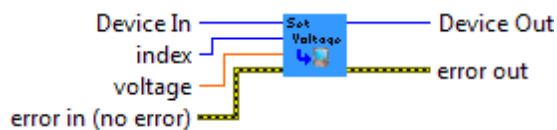
source

source describes the origin of the error or warning.

5.3.9 AnalogSetVoltage.vi

AnalogSetVoltage.vi

Sets the voltage to output



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

voltage

The voltage to output

index

The analog output index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

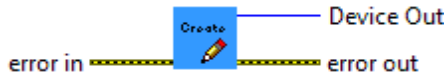
source describes the origin of the error or warning.

5.4 Bridge

5.4.1 BridgeCreate.vi

BridgeCreate.vi

Create a phidget bridge device.



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



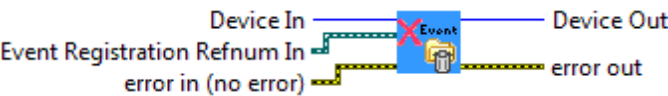
Device Out

The created Device # ID

5.4.2 BridgeEventClose.vi

BridgeEventClose.vi

Close a Phidget Bridge event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

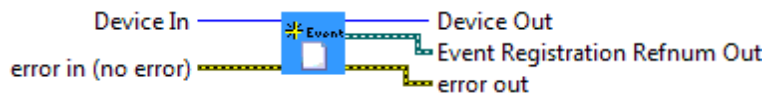
source

source string describes the origin of the error or warning.

5.4.3 BridgeEventCreate.vi

BridgeEventCreate.vi

Create a Phidget Bridge event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



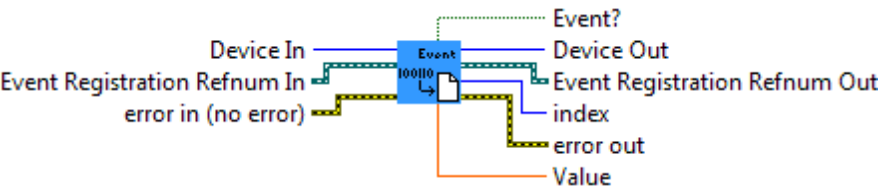
Event Registration Refnum Out

Event # Identification

5.4.4 BridgeEventExe.vi

BridgeEventExe.vi

Returns the value of the selected input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Value

The value of the selected input (mV/V)



index

The bridge input index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as Event # Registration Refnum In

5.4.5 BridgeGetDataRate.vi

BridgeGetDataRate.vi



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRate

5.4.6 BridgeGetDataRateMax.vi

BridgeGetDataRateMax.vi

Gets the maximum supported data rate, in ms.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DataRateMax**

Maximum data rate

5.4.7 BridgeGetDataRateMin.vi

BridgeGetDataRateMin.vi

Gets the minimum supported data rate, in ms.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

abc

132

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRateMin

Minimum data rate

5.4.8 BridgeGetEnabled.vi

BridgeGetEnabled.vi

Get the enabled state of a bridge input.



132

Get Enabled

TF

132

abc

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The bridge input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EnabledState

The enabled state. Possible values are 0 for False, 1 for True and others for undefined



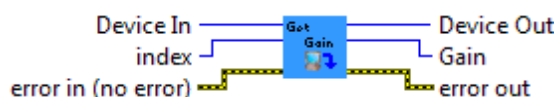
Enabled?

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.4.9 BridgeGetGain.vi

BridgeGetGain.vi

Gets the gain setting of the bridge input



**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The bridge input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source describes the origin of the error or warning.



Gain

The gain setting

5.4.10 BridgeGetValue.vi

BridgeGetValue.vi

Gets the value of the selected bridge input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The bridge input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**value**

The value on the bridge input

5.4.11 BridgeGetValueMax.vi

BridgeGetValueMax.vi

The maximum measureable bridge value

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The bridge input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

ValueMax

The maximum value

5.4.12 BridgeGetValueMin.vi

BridgeGetValueMin.vi

The minimum measurable bridge value.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The bridge input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

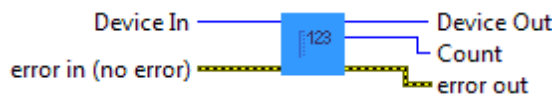
ValueMin

The minimum value

5.4.13 BridgeInputCount.vi

BridgeInputCount.vi

Gets the number of bridge inputs on the device



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

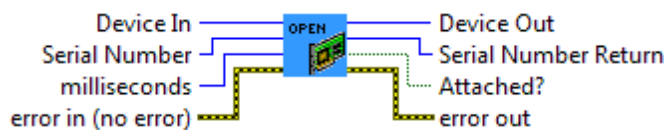


Count

The number of bridge inputs on the device

5.4.14 BridgeOpen.vi

BridgeOpen.vi



Serial Number



Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.

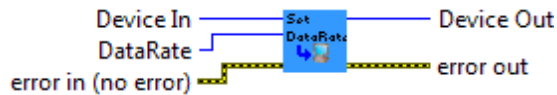
Device Out

Same as Device In

5.4.15 BridgeSetDataRate.vi

BridgeSetDataRate.vi

Sets the data rate for the bridge input. (ms)



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

**DataRate**

The data rate

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

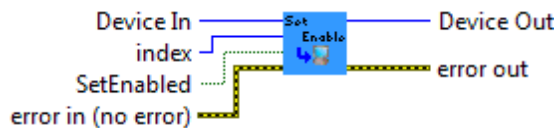
**source**

source describes the origin of the error or warning.

5.4.16 BridgeSetEnabled.vi

BridgeSetEnabled.vi

Sets the enabled state of the bridge input

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The bridge input index

SetEnabled

The enabled state

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

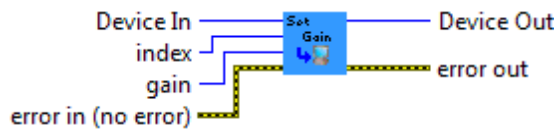
source describes the origin of the error or

warning.

5.4.17 BridgeSetGain.vi

BridgeSetGain.vi

Sets the bridge gain



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

gain

The bridge gain

index

The bridge input index

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

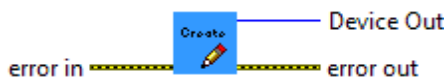
source describes the origin of the error or warning.

5.5 Encoder

5.5.1 EncoderCreate.vi

EncoderCreate.vi

Create a Phidget Encoder handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.



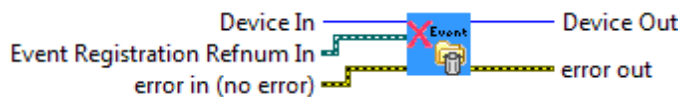
Device Out

The created device # ID

5.5.2 EncoderEventCloseInput.vi

EncoderEventCloseInput.vi

Close the input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

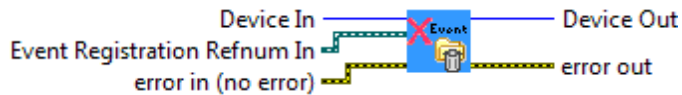
source

source string describes the origin of the error or warning.

5.5.3 EncoderEventClosePosition.vi

EncoderEventClosePosition.vi

Close the encoder position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

abc

code

code is the error or warning code.

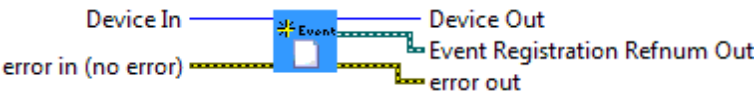
source

source string describes the origin of the error or warning.

5.5.4 EncoderEventCreateInput.vi

EncoderEventCreateInput.vi

Set up an input change event handle



I32

Err

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

code

code is the error or warning code.

abc

source

source describes the origin of the error or warning.

I32

Device Out

Same as Device In

Err

error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

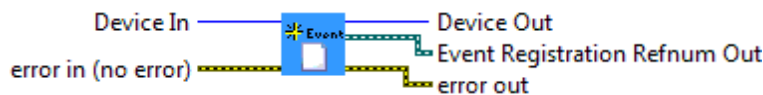
Event Registration Refnum Out

Event # Identification

5.5.5 EncoderEventCreatePosition.vi

EncoderEventCreatePosition.vi

Set up an encoder position change event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



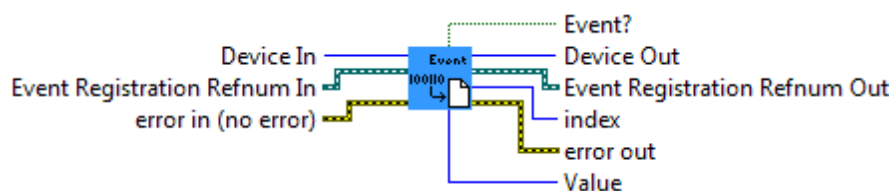
Event Registration Refnum Out

Event # Identification

5.5.6 EncoderEventExeInput.vi

EncoderEventExeInput.vi

This occurs on a Phidget Encoder Input event





error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device In

Device # Identification.



index

The encoder index



Value

The input state value. Possible values are 0 for False, 1 for True and others for undefined



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.
source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In
Device Out



Same as Device In
Event?

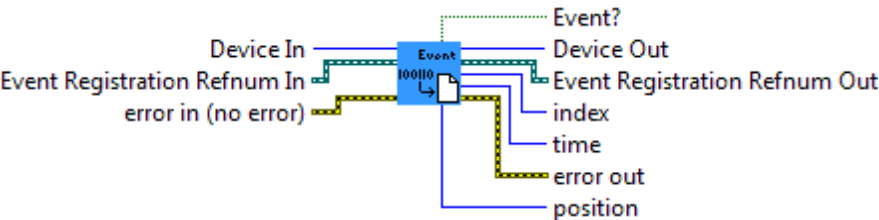


Returns TRUE if the event has executed, or FALSE otherwise.

5.5.7 EncoderEventExePosition.vi

EncoderEventExePosition.vi

This is called when an encoder position changes.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as the Event Registration Refnum In



index

The encoder index



time

The time in ms since the last position change event

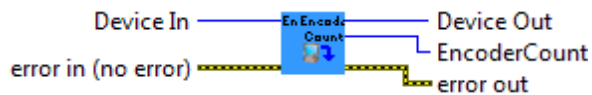
position

The current position of the encoder. (This is a relative not absolute position.)

5.5.8 EncoderGetCount.vi

EncoderGetCount.vi

Get the number of encoders supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

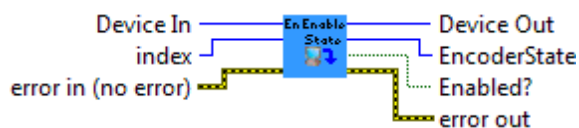
EncoderCount

The encoder input count

5.5.9 EncoderGetEnabledState.vi

EncoderGetEnabledState.vi

Get the enabled state of an encoder. This is whether the encoder is powered or not. Please note that 1057 doesn't support this function



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EncoderState

The enabled state. Possible values are 0 for False, 1 for True and others for undefined



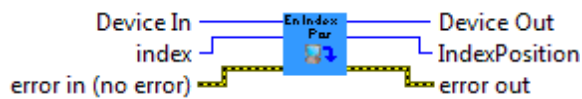
Enabled?

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.5.10 EncoderGetIndexPosition.vi

EncoderGetIndexPosition.vi

Get the position of the last index pulse, as referenced to Phidget Encoder -> EncoderGetPosition. The function will return an error (EPHIDGET_UNKNOWN) if there hasn't been an index event, or if the encoder doesn't support index



132

132

TF

132

abc

132

132

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The encoder index

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



IndexPosition

The index position

5.5.11 EncoderGetInputCount.vi

EncoderGetInputCount.vi

Get the number of encoders supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

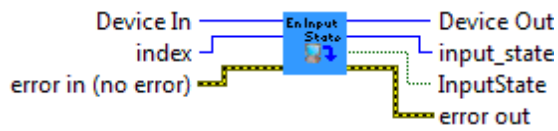
InputCount

The input count

5.5.12 EncoderGetInputState.vi

EncoderGetInputState.vi

Get the state of a digital input



I32

TF

TF

I32

abc

I32

I32

TF

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The encoder index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

input_state

The input state. Possible values are 0 for False, 1 for True and others for undefined

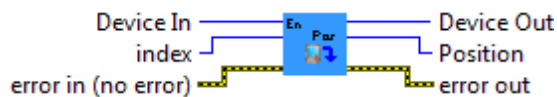
InputState

The input state (Boolean type). Possible values are True for Engaged and False for Not Engaged

5.5.13 EncoderGetPosition.vi

EncoderGetPosition.vi

Get the current position of an encoder



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



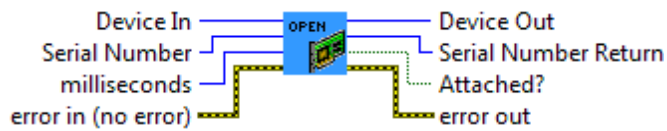
Position

The current position

5.5.14 EncoderOpen.vi

EncoderOpen.vi

Open a PhidgetEncoder



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification. This function will create a new device identification if it's 0

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



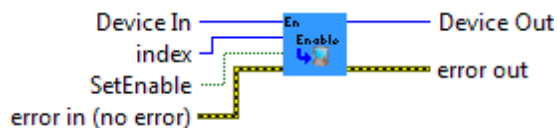
Device Out

Same as Device In

5.5.15 EncoderSetEnabled.vi

EncoderSetEnabled.vi

Set the enabled state of an encoder. This is whether the encoder is powered or not. Please note that 1057 doesn't support this function



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source describes the origin of the error or warning.

index

The encoder index

SetEnable

The encoder state.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

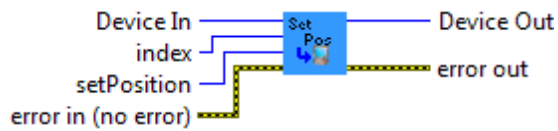
source

source describes the origin of the error or warning.

5.5.16 EncoderSetPosition.vi

EncoderSetPosition.vi

Set the position of an encoder



I32↑

Error

TF↑

I32↑

abc↑

I32↑

I32↑

I32↑

Error

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The encoder index

setPosition

The new position

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.6 Frequency

5.6.1 FreqCreate.vi

FreqCreate.vi

Create a Phidget Frequency input handle

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



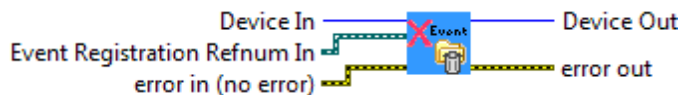
Device Out

The created Device # ID

5.6.2 FreqEventClose.vi

FreqEventClose.vi

Close a Phidget Frequency input event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



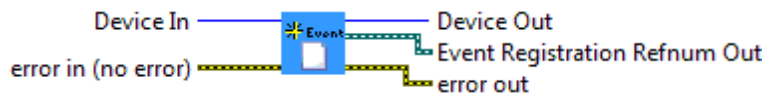
source

source string describes the origin of the error or warning.

5.6.3 FreqEventCreate.vi

FreqEventCreate.vi

Create a Phidget Frequency input event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

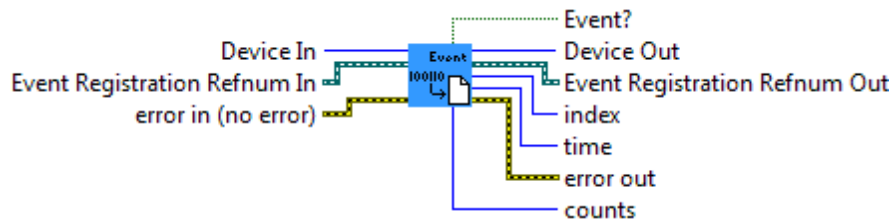
Event Registration Refnum Out

Event # Identification

5.6.4 FreqEventExe.vi

FreqEventExe.vi

Executes whenever some counts have been detected



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



index

The encoder index



time

Time in microseconds over which the pulses have been measured



counts

Then number of counts that occurred



Event Registration Refnum Out

5.6.5 FreqGetCount.vi

FreqGetCount.vi

Gets the total number of pulses detected on the specified channel since the Phidget was opened, or since the last reset



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Count

The total number of pulses

5.6.6 FreqGetCount71.vi

FreqGetCount71.vi

Gets the total number of pulses detected on the specified channel since the Phidget was opened, or since the last reset



132

575

TF

132

abc

132

132

575

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

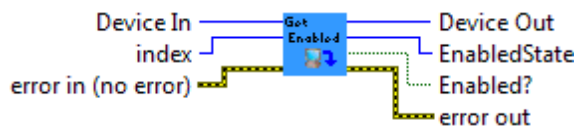
Count

The number of pulses

5.6.7 FreqGetEnabled.vi

FreqGetEnabled.vi

Get the enabled state of the device



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The input index



Device Out



Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EnabledState

The enabled state. Possible values are 0 for False, 1 for True and others for undefined



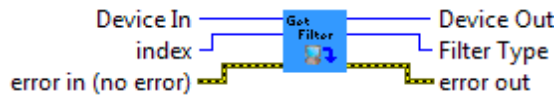
Enabled?

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.6.8 FreqGetFilter.vi

FreqGetFilter.vi

Get the channel filter mode.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

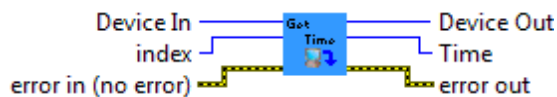
Filter Type

The filter type. This is an enum. Please refer to [Phidgets Constants](#) -> [Frequency Filter Mode](#)

5.6.9 FreqGetTime.vi

FreqGetTime.vi

Gets the total elapsed time since Phidget was opened, or since the last reset, in microseconds.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Time

The elapsed times

5.6.10 FreqGetTime71.vi

FreqGetTime71.vi

Gets the total elapsed time since Phidget was opened, or since the last reset, in microseconds.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Time

The elapsed time

5.6.11 FreqGetTimeout.vi

FreqGetTimeout.vi

Gets or set the Timeout value, in microseconds



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Timeout

The timeout value

5.6.12 FreqGetValue.vi

FreqGetValue.vi

Get the frequency measured by the device.



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



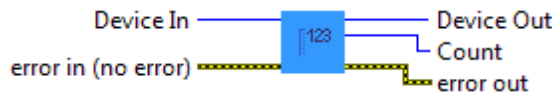
Frequency

The measured frequency

5.6.13 FreqInputCount.vi

FreqInputCount.vi

The number of frequency inputs on the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



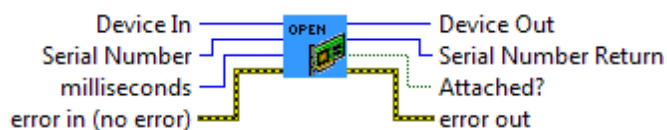
Count

The number of inputs

5.6.14 FreqOpen.vi

FreqOpen.vi

Opens a Phidget Frequency Input device



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification. This function will create a new device identification if it's 0

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

5.6.15 FreqReset.vi

FreqReset.vi

Resets the TotalCount and TotalTime counters to 0 for the specified channel.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

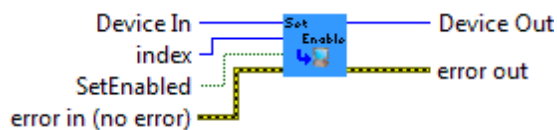
source

source describes the origin of the error or warning.

5.6.16 FreqSetEnabled.vi

FreqSetEnabled.vi

Sets the enabled state of the channel.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

SetEnabled

The enabled state of the channel

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

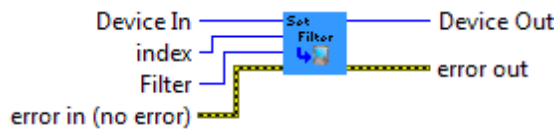
source

source describes the origin of the error or warning.

5.6.17 FreqSetFilter.vi

FreqSetFilter.vi

Set the channel filter mode. This controls the type of signal that the frequency counter will respond to - either a zero-centered signal, or a logic level signal.



I32

F32

TF

I32

abc

I32

I32

I32

F32

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Filter

The filter type. This is an enum. Please refer to [Phidgets Constants](#) -> [Frequency Filter Mode](#)

index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

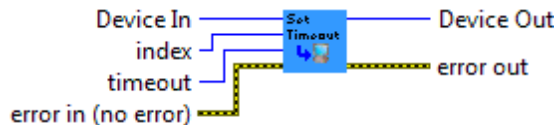
source

source describes the origin of the error or warning.

5.6.18 FreqSetTimeout.vi

FreqSetTimeout.vi

Sets the timeout value in microseconds.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



timeout

The timeout value.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.7 GPS

5.7.1 GPSCreate.vi

GPSCreate.vi

Create a Phidget GPS device



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



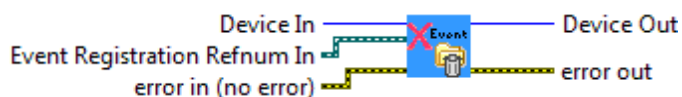
Device Out

Device # ID

5.7.2 GPSEventCloseFixStatus.vi

GPSEventCloseFixStatus.vi

Close a Phidget GPS Fix Status event handler



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

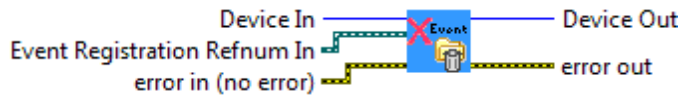
source string describes the origin of the error or warning.



5.7.3 GPSEventClosePosition.vi

GPSEventClosePosition.vi

Close a Phidget GPS Position event handler



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

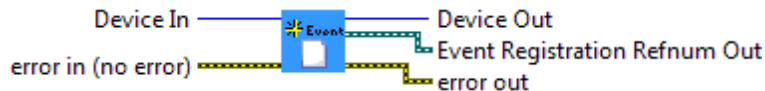
source

source string describes the origin of the error or warning.

5.7.4 GPSEventCreateFixStatus.vi

GPSEventCreateFixStatus.vi

Create a Phidget GPS Fix Status event handler



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



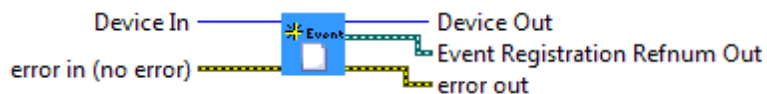
Event Registration Refnum Out

Event # Identification

5.7.5 GPSEventCreatePosition.vi

GPSEventCreatePosition.vi

Create a Phidget GPS Position event handler



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



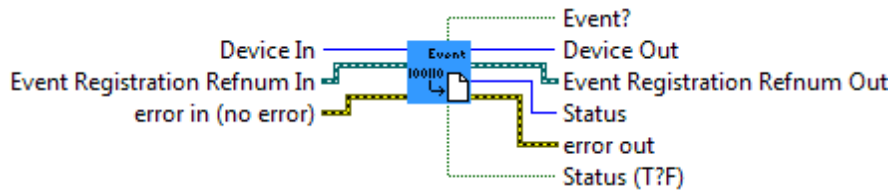
Event Registration Refnum Out

Event # Identification

5.7.6 GPSEventExeFixStatus.vi

GPSEventExeFixStatus.vi

Executes when a position fix is obtained or lost.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as Event Registration Refnum In



Status

The fix status. Possible values are 0 for False, 1 for True and others for undefined



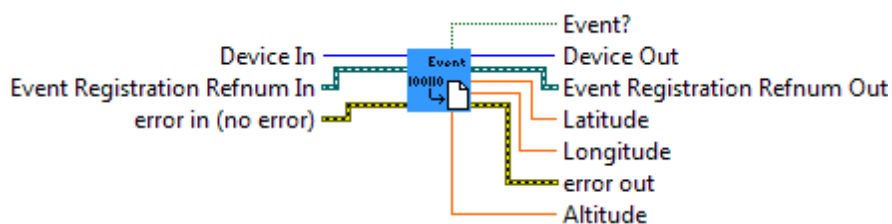
Status (T?F)

The fix status. Possible values are True for Fixed and False for Not Fixed

5.7.7 GPSEventExePosition.vi

GPSEventExePosition.vi

Executes when position changes.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event?

Returns TRUE if the event has executed, or FALSE otherwise.

Event Registration Refnum Out



Event # Identification

Latitude

The latitude

Longitude

The longitude

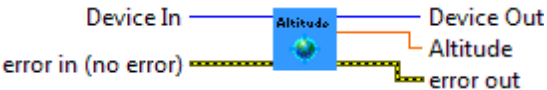
Altitude

The altitude

5.7.8 GPSGetAltitude.vi

GPSGetAltitude.vi

Gets the altitude.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Altitude

The altitude

5.7.9 GPSGetDate.vi

GPSGetDate.vi

Gets the date of the last recieved position.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Date

The date in UTC.



tm_mday



The day of the month

tm_mon



The month

tm_year

The year

5.7.10 GPSGetFixStatus.vi

GPSGetFixStatus.vi

Gets the GPS fix status.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



FixStatus

The fix status. Possible values are 0 for False, 1 for True and others for undefined



FixStatus (T?F)

The fix status. Possible values are True for Fixed and False for Not Fixed

5.7.11 GPSGetHeading.vi

GPSGetHeading.vi

Returns the current true course over ground of the active antenna in degrees (000.0 - 359.9).



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



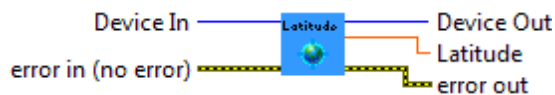
Heading

The current course

5.7.12 GPSGetLatitude.vi

GPSGetLatitude.vi

Gets the latitude of the antenna.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

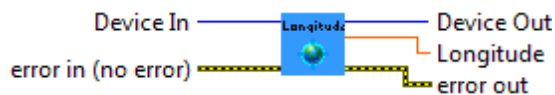
Latitude

The latitude

5.7.13 GPSGetLongitude.vi

GPSGetLongitude.vi

Gets the longitude of the antenna.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

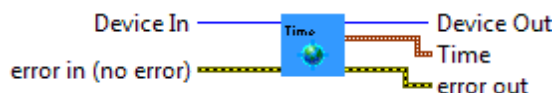
Longitude

The longitude

5.7.14 GPSGetTime.vi

GPSGetTime.vi

Gets the current time as transmitted by the GPS receiver.





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or



warning.

Time

Current time in UTC format.

tm_ms

Current ms

tm_sec

Current second

tm_min

Current minute

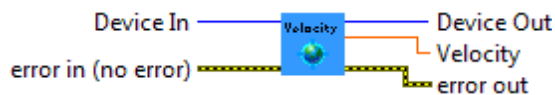
tm_hour

Current hour

5.7.15 GPSGetVelocity.vi

GPSGetVelocity.vi

Get the velocity of the antenna.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

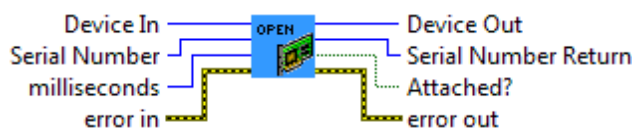
Velocity

The velocity.

5.7.16 GPSTOpen.vi

GPSTOpen.vi

Open a PhidgetGPS device.





Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In

5.8 InterfaceKit

5.8.1 IFCreate.vi

IFCreate.vi

Create a Phidget InterfaceKit handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

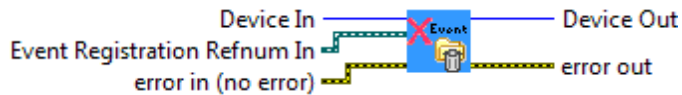
Device Out

Device # identification

5.8.2 IFEventClose.vi

IFEventClose.vi

Close an IF Kit event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

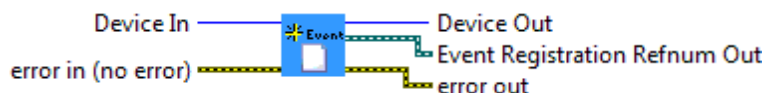
source

source string describes the origin of the error or warning.

5.8.3 IFEventCreateInput.vi

IFEventCreateInput.vi

Create an IF Kit Input event handle.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

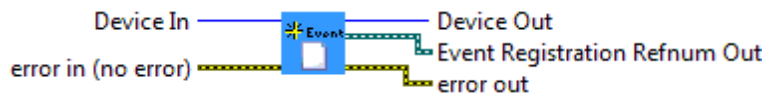
Event Registration Refnum Out

Event # Identification

5.8.4 IFEventCreateOutput.vi

IFEventCreateOutput.vi

Create an IF kit Output event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



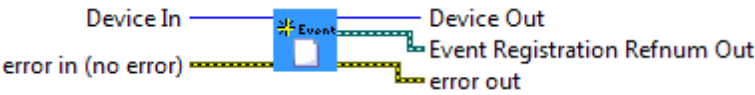
Event Registration Refnum Out

Event # Identification

5.8.5 IFEventCreateSensor.vi

IFEventCreateSensor.vi

Create an IF kit sensor event.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



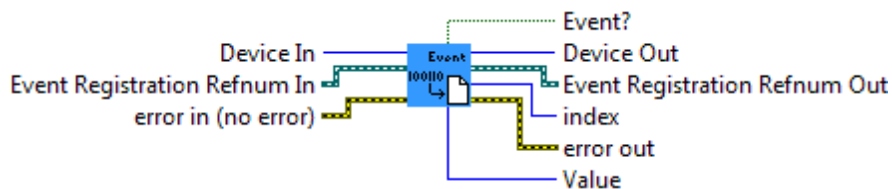
Event Registration Refnum Out

Event # Identification

5.8.6 IFEventExe.vi

IFEventExe.vi

Executes when an IF kit event occurs.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device In

Device # Identification.



index

The input index



Value

The value returned by the event



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Event # Identification



Device Out

Same as Device In



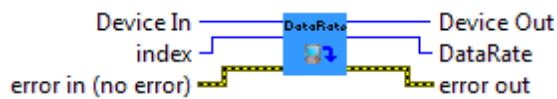
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.8.7 IFGetDataRate.vi

IFGetDataRate.vi

Get the data rate for an analog input



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRate

The data rate

5.8.8 IFGetDataRateMax.vi

IFGetDataRateMax.vi

Get the maximum supported data rate for an analog input



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRateMax

The maximum data rate

5.8.9 IFGetDataRateMin.vi

IFGetDataRateMin.vi

Get the minimum supported data rate for an analog input.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRateMin

The minimum data rate.

5.8.10 IFGetInputCount.vi

IFGetInputCount.vi

Get the number of digital inputs supported by this board



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

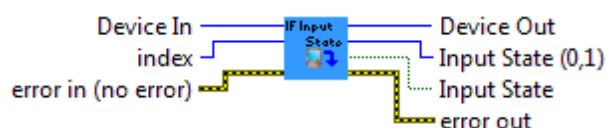
Input Count

the number of digital inputs

5.8.11 IFGetInputState.vi

IFGetInputState.vi

The state of the indexed digital input.





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Input State (0,1)

The input state. Possible values are 0 for False, 1 for True and others for undefined



Input State

The input state (Boolean type)

5.8.12 IFGetOutputCount.vi

IFGetOutputCount.vi

Get the number of digital outputs supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



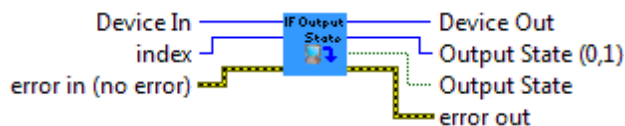
Output count

The dital output count

5.8.13 IFGetOutputState.vi

IFGetOutputState.vi

Get the state of a digital output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired



from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Output State (0,1)

The output state. Possible values are 0 for False, 1 for True and others for undefined

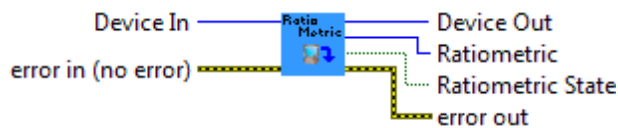
Output State

The output state (Boolean type).

5.8.14 IFGetRatio.vi

IFGetRatio.vi

Get the ratiometric state for this board



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Ratiometric

The ratio metric state. Possible values are 0 for False, 1 for True and others for undefined

Ratiometric State

The ratio metric state (Boolean type).

5.8.15 IFGetSensorCount.vi

IFGetSensorCount.vi

Get the number of sensor (analog) inputs supported by this board



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

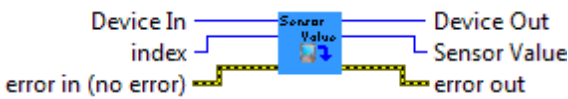
Sensor Count

The sensor input count

5.8.16 IFGetSensorValue.vi

IFGetSensorValue.vi

Get a sensor value (0-1000).



I32

132

132

132

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132

132

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

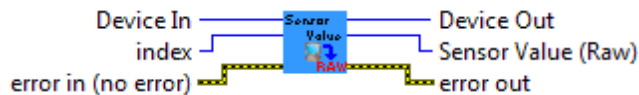
Sensor Value

The sensor value

5.8.17 IFGetSensorValueRaw.vi

IFGetSensorValueRaw.vi

Get a sensor raw value (12-bit).



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

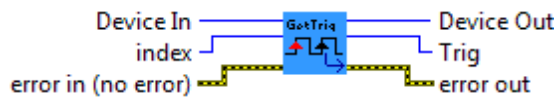
Sensor Value (Raw)

The sensor value

5.8.18 IFGetTrig.vi

IFGetTrig.vi

Get a sensor change trigger



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

I32

abc

I32

that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

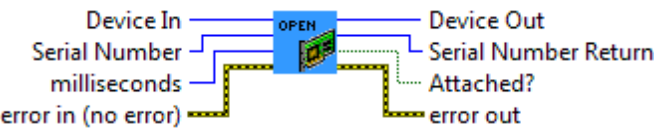
Trig

The change trigger

5.8.19 IFOpen.vi

IFOpen.vi

Open a PhidgetInterfaceKit



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Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source string describes the origin of the error or warning.

Device In

Device # Identification. This function will create a new device identification if it's 0

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

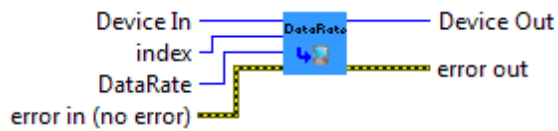
Device Out

Same as Device In

5.8.20 IFSetDataRate.vi

IFSetDataRate.vi

Set the data rate for an analog input



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Error

TF↑

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I32↑

I32↑

I32↑

Error

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

DataRate

The data rate.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

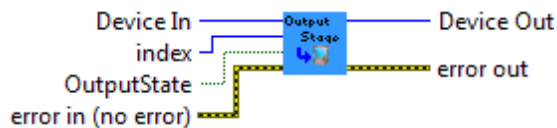
source

source describes the origin of the error or warning.

5.8.21 IFSetOutputState.vi

IFSetOutputState.vi

The Set the state of a digital output

**Device In**

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

index

The input index

OutputState

The output state. (0 = False 1 = True)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

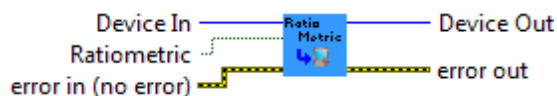
source

source describes the origin of the error or warning.

5.8.22 IFSetRatio.vi

IFSetRatio.vi

Set the ratio metric state for this board.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Ratiometric

The ratiometric state. (0 = False 1 = True)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

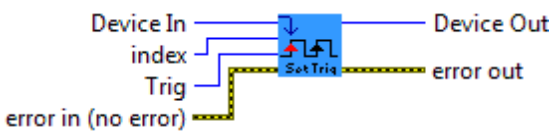
source describes the origin of the error or

warning.

5.8.23 IFSetTrig.vi

IFSetTrig.vi

Set a sensor change trigger



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Set

TF

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abc

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Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Trig

The change trigger

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.9 IR

5.9.1 IRCreate.vi

IRCreate.vi

Create a Phidget IR handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.



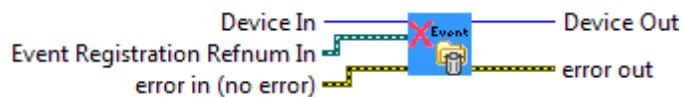
Device Out

Device # identification

5.9.2 IREventCloseOnCode.vi

IREventCloseOnCode.vi

Close the Phidget IR OnCode event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

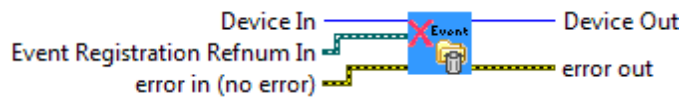
source

source string describes the origin of the error or warning.

5.9.3 IEventCloseOnLearn.vi

IEventCloseOnLearn.vi

Close the Phidget IR OnLearn event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



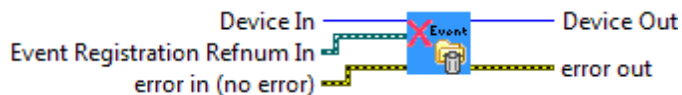
source

source string describes the origin of the error or warning.

5.9.4 IREventCloseOnRawData.vi

IREventCloseOnRawData.vi

Close the Phidget IR OnRawData event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

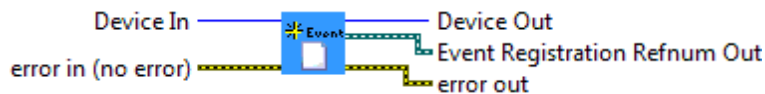
source string describes the origin of the error or warning.



5.9.5 IREventCreateOnCode.vi

IREventCreateOnCode.vi

Set up a Phidget IR OnCode event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.





code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



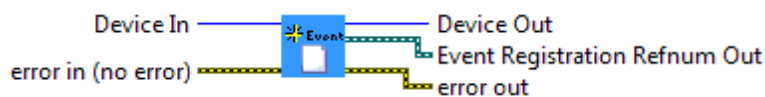
Event Registration Refnum Out

Event # Identification

5.9.6 IREventCreateOnLearn.vi

IREventCreateOnLearn.vi

Set up a Phidget IR OnLearn event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



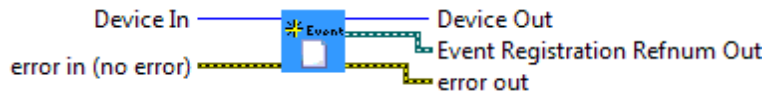
Event Registration Refnum Out

Event # Identification

5.9.7 IREventCreateOnRawData.vi

IREventCreateOnRawData.vi

Set up a Phidget IR OnRawData event handle.



132

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TF

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abc

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132

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



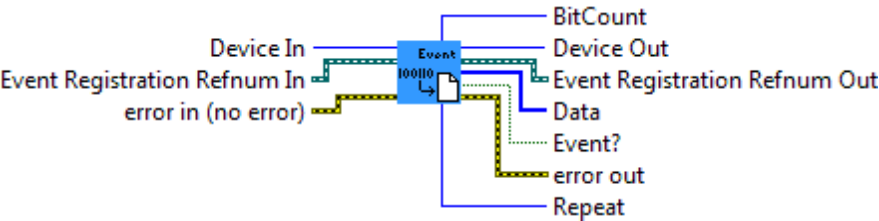
Event Registration Refnum Out

Event # Identification

5.9.8 IREventExeOnCode.vi

IREventExeOnCode.vi

This is called when a code has been received that could be automatically decoded. Data is return as an array with MSB in index 0. Bit count and a repeat flag are also returned. Repeats are detected as either the same code repeated in < 100ms or as a special repeat code.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



BitCount

The bit count of the code



Repeat

Returns the repeats



Data

A user array to store the code data in



Data



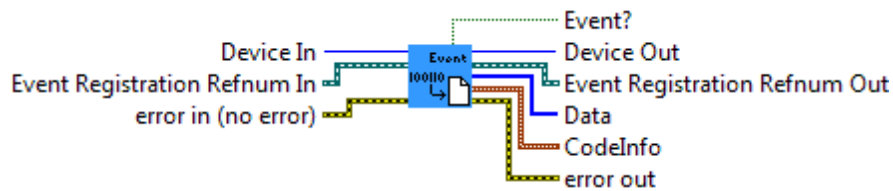
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.9.9 IREventExeOnLearn.vi

IREventExeOnLearn.vi

This is called when a code has been received for long enough to be learned. The returned CodeInfo structure can be used to retransmit the same code.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



CodeInfo

This contains all information needed to transmit a code. Please refer to [Phidgets Constants](#) -> [CodeInfo](#)



BitCount



Encoding



Length



Gap



Trail



Header 1



Header 2



One 1



One 2



Zero 1



Zero 2



Repeat 1

▶I32	Repeat 2
▶I32	Repeat 3
▶I32	Repeat 4
▶I32	Repeat 5
▶I32	Repeat 6
▶I32	Repeat 7
▶I32	Repeat 8
▶I32	Repeat 9
▶I32	Repeat 10
▶I32	Repeat 11
▶I32	Repeat 12
▶I32	Repeat 13
▶I32	Repeat 14
▶I32	Repeat 15
▶I32	Repeat 16
▶I32	Repeat 17
▶I32	Repeat 18
▶I32	Repeat 19
▶I32	Repeat 20
▶I32	Repeat 21
▶I32	Repeat 22
▶I32	Repeat 23
▶I32	Repeat 24
▶I32	Repeat 25
▶I32	Repeat 26
▶I32	min_repeat
▶U8	toggle_mask 1
▶U8	toggle_mask 2
▶U8	toggle_mask 3
▶U8	toggle_mask 4
▶U8	toggle_mask 5
▶U8	toggle_mask 6
▶U8	toggle_mask 7
▶U8	toggle_mask 8



toggle_mask 9



toggle_mask 10



toggle_mask 11



toggle_mask 12



toggle_mask 13



toggle_mask 14



toggle_mask 15



toggle_mask 16



CarrierFrequency



DutyCycle

**Data**

A user array to store the code data in.

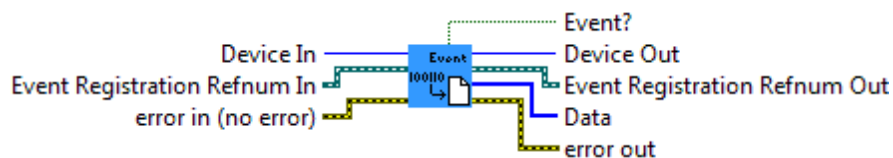
**Data****Event Registration Refnum Out**

Same as the Event Registration Refnum In

5.9.10 IREventExeOnRawData.vi

IREventExeOnRawData.vi

This is called when raw data has been read from the device. Raw data always starts with a space and ends with a pulse

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Data

A user array for raw data to be written into

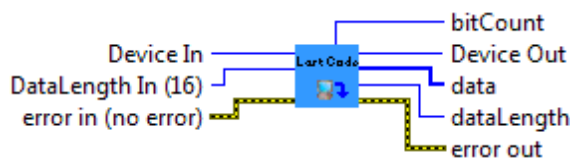




5.9.11 IRGetLastCode.vi

IRGetLastCode.vi

Get the last code that was received.



data

Event Registration Refnum Out

Same as the Event Registration Refnum In

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataLength In (16)

Length of the user array - should be at least 16. This is set to the amount of data actually



written to the array

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



dataLength

Length of the user array.



bitCount

Set to the bit count of the code



data

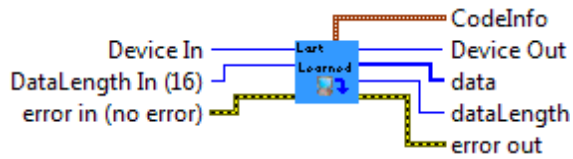
A user array to store the code



5.9.12 IRGetLastLearnedCode.vi

IRGetLastLearnedCode.vi

Get the last code that was learned.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataLength In (16)

Length of the user array - should be at least 16. This is set to the amount of data actually written to the array.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



dataLength

Length of the user array



CodeInfo

The CodeInfo structure for the learned code.

Please refer to [Phidgets Constants](#) ->

[CodeInfo](#)



BitCount



Encoding



Length



Gap



Trail



Header 1



Header 2



One 1



One 2



Zero 1



Zero 2



Repeat 1



Repeat 2



Repeat 3



Repeat 4



Repeat 5



Repeat 6



Repeat 7



Repeat 8



Repeat 9



Repeat 10



Repeat 11



Repeat 12



Repeat 13



Repeat 14



Repeat 15



Repeat 16



Repeat 17



Repeat 18



Repeat 19



Repeat 20



Repeat 21



Repeat 22



Repeat 23



Repeat 24



Repeat 25



Repeat 26



min_repeat



toggle_mask 1



toggle_mask 2



toggle_mask 3



toggle_mask 4



toggle_mask 5



toggle_mask 6



toggle_mask 7



toggle_mask 8



toggle_mask 9



toggle_mask 10



toggle_mask 11



toggle_mask 12



toggle_mask 13



toggle_mask 14



U8

toggle_mask 15

U8

toggle_mask 16

I32

CarrierFrequency

I32

DutyCycle

U8

data

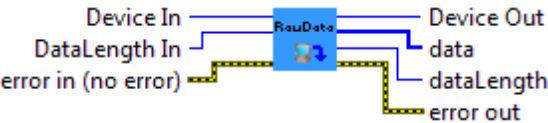
A user array to store the code data in.

U8

5.9.13 IRGetRawData.vi

IRGetRawData.vi

Read any available raw data. This should be polled continuously (every 20ms) to avoid missing data. Read data always starts with a space and ends with a pulse



I32

Device In

Device # Identification.

FP

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

code

code is the error or warning code.

abc

source

source describes the origin of the error or warning.



DataLength In

The maximum amount of data to read. This is set to the actual amount of data read

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

dataLength

The amount of data to read

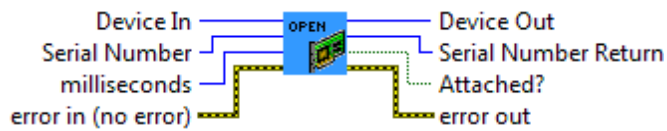
data

A user array for raw data to be written into

5.9.14 IROpen.vi

IROpen.vi

Open a PhidgetIR.



I32

Serial Number

Serial Number. Specify -1 to open any.

I32

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

F

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

code

code is the error or warning code.

abc

source

source string describes the origin of the error or warning.

I32

Device In

Device # Identification. This function will create a new device identification if it's 0

I32

Serial Number Return

Serial Number of the opened phidget

TF

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

F

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



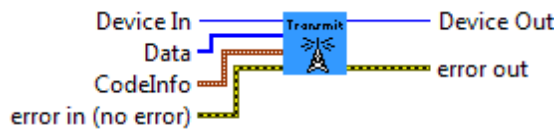
Device Out

Same as Device In

5.9.15 IRTransmit.vi

IRTransmit.vi

Transmit a code according to the settings in a CodeInfo structure.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source describes the origin of the error or warning.

CodeInfo

The CodeInfo structure specifying to to send the code. Anything left as null to select default is filled in for the user. Please refer to [Phidgets Constants](#) -> [CodeInfo](#)

BitCount

Encoding

Length

Gap

Trail

Header 1

Header 2

One 1

One 2

Zero 1

Zero 2

Repeat 1

Repeat 2

Repeat 3

Repeat 4

Repeat 5

Repeat 6

Repeat 7

Repeat 8

Repeat 9

Repeat 10

Repeat 11

Repeat 12

Repeat 13



Repeat 14

Repeat 15

Repeat 16

Repeat 17

Repeat 18

Repeat 19

Repeat 20

Repeat 21

Repeat 22

Repeat 23

Repeat 24

Repeat 25

Repeat 26

min_repeat

toggle_mask 1

toggle_mask 2

toggle_mask 3

toggle_mask 4

toggle_mask 5

toggle_mask 6

toggle_mask 7

toggle_mask 8

toggle_mask 9

toggle_mask 10

toggle_mask 11

toggle_mask 12

toggle_mask 13

toggle_mask 14

toggle_mask 15

toggle_mask 16

CarrierFrequency

DutyCycle

Data



The code to send. Data is transmitted MSBit first. MSByte is in array index 0. LSBit is right justified, so MSBit may be in bit positions 0-7 in array index 0 depending on the bit count.

Data

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

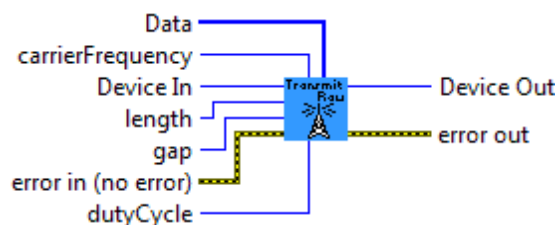
source

source describes the origin of the error or warning.

5.9.16 IRTransmitRaw.vi

IRTransmitRaw.vi

Transmit RAW data as a series of pulses and spaces.



[I32]

Device In

Device # Identification.

[F+]

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

[TF]

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

[I32]

code

code is the error or warning code.

[abc]

source

source describes the origin of the error or warning.

[I32]

length

The length of the data array. Maximum length is 1024, but streams should be kept much shorter, ie. < 100ms between gaps

[I32]

carrierFrequency

The Carrier Frequency in Hz. leave as 0 for default

[I32]

dutyCycle

The Duty Cycle (10-50). Leave as 0 for default

[I32]

gap

The gap time in us. This guarantees a gap time (no transmitting) after the data is sent, but can be set to 0.

[I32]

Data

The data to send. The array must start and end



with a pulse and each element is a positive time in us.

data

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

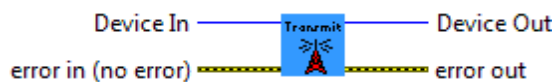
source

source describes the origin of the error or warning.

5.9.17 IRTransmitRepeat.vi

IRTransmitRepeat.vi

Transmits a repeat of the last transmitted code. Depending of the CodeInfo structure, this may be a retransmission of the code itself, or there may be a special repeat code



Device In

Device # Identification.

error in (no error)

error in can accept error information wired



from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.10 LED

5.10.1 LEDCount.vi

LEDCount.vi

Get the number of LEDs supported by this board.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

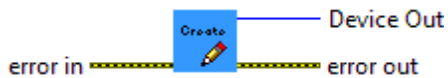
source describes the origin of the error or warning.

Count

The LED count

5.10.2 LEDCreate.vi**LEDCreate.vi**

Create a Phidget LED handle

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

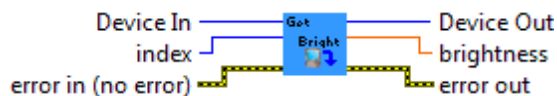
Device Out

Device # identification.

5.10.3 LEDGetBrightness.vi

LEDGetBrightness.vi

Get the brightness of an LED



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

brightness

The LED brightness (0-100).

5.10.4 LEDGetCurrentLimit.vi

LEDGetCurrentLimit.vi

Get the current limit. This is for all outputs



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



CurrentLimit

The current limit

5.10.5 LEDGetCurrentLimitIndexed.vi

LEDGetCurrentLimitIndexed.vi

Gets an indexed current limit.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The LED index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Current Limit

The current limit

5.10.6 LEDGetVoltage.vi

LEDGetVoltage.vi

Get the output voltage. This is for all outputs.



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

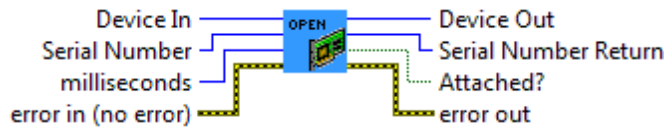
Voltage

The output voltage

5.10.7 LEDOpen.vi

LEDOpen.vi

Open a Phidget LED.



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully



attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

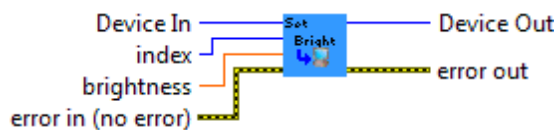
Device Out

Same as Device In

5.10.8 LEDSetBrightness.vi

LEDSetBrightness.vi

Set the brightness of an LED



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The LED index

brightness

The LED brightness (0-100).

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.10.9 LEDSetCurrentLimit.vi

LEDSetCurrentLimit.vi

Set the current limit. This is for all outputs



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

CurrentLimit

The current limit

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

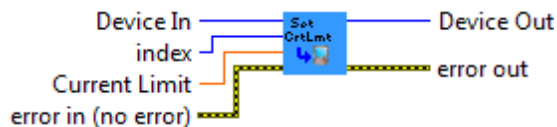
source

source describes the origin of the error or warning.

5.10.10 LEDSetCurrentLimitIndexed.vi

LEDSetCurrentLimitIndexed.vi

Sets the indexed current limit.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The LED index

Current Limit

The current limit

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.10.11 LEDSetVoltage.vi

LEDSetVoltage.vi

Set the output voltage. This is for all outputs.



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Voltage

The output voltage

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

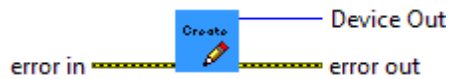
source describes the origin of the error or warning.

5.11 MotorControl

5.11.1 MCreate.vi

MCreate.vi

Create a Phidget Motor Control handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



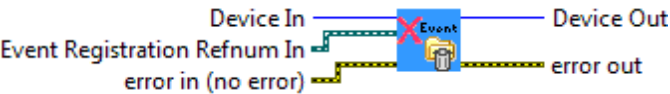
Device Out

Device # identification.

5.11.2 MCEventCloseCurrent.vi

MCEventCloseCurrent.vi

Close the Phidget Motor Control current change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

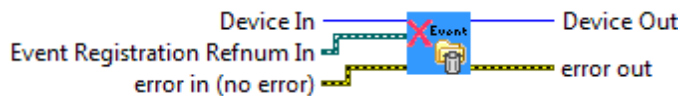
source

source string describes the origin of the error or warning.

5.11.3 MCEventCloseEMF.vi

MCEventCloseEMF.vi

Close the Phidget Motor Control EMF change event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



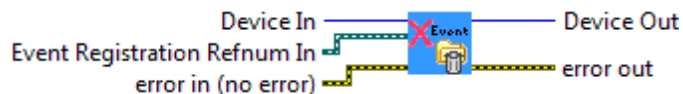
source

source string describes the origin of the error or warning.

5.11.4 MCEventCloseInput.vi

MCEventCloseInput.vi

Close the Phidget Motor Control input change event handle



Device In



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Device Out

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

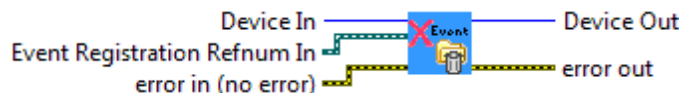
source

source string describes the origin of the error or warning.

5.11.5 MCEventClosePositionChange.vi

MCEventClosePositionChange.vi

Close the Phidget motor controller position change event handler





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

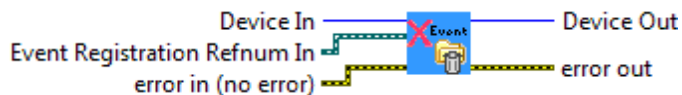
source string describes the origin of the error

or warning.

5.11.6 MCEventClosePositionUpdate.vi

MCEventClosePositionUpdate.vi

Close the phidget motor controller position update event handle



Device In

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Device Out

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.

code

code is the error or warning code.

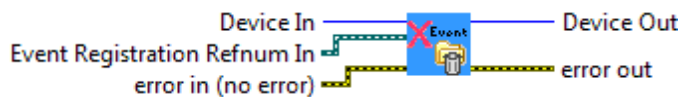
source

source string describes the origin of the error or warning.

5.11.7 MCEventCloseSensorUpdate.vi

MCEventCloseSensorUpdate.vi

Close the Phidget Motor controller Sensor update event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In



Event # Identification

Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



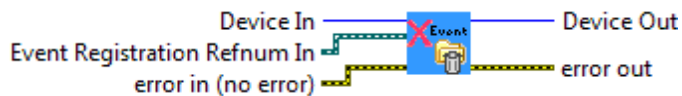
source

source string describes the origin of the error or warning.

5.11.8 MCEventCloseVelocity.vi

MCEventCloseVelocity.vi

Close the Phidget Motor Control velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

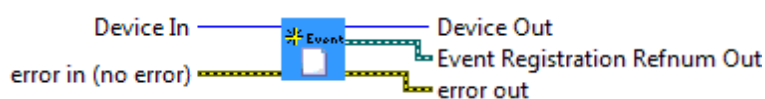
code is the error or warning code.

source

source string describes the origin of the error or warning.

5.11.9 MCEventCreateCurrentChange.vi

MCEventCreateCurrentChange.vi



Device In

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out****error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

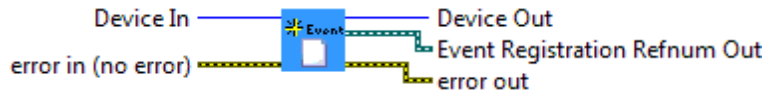
**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out****5.11.10 MCEventCreateCurrentUpdate.vi****MCEventCreateCurrentUpdate.vi**



I32

Error

TF

I32

abc

I32

Error

TF

I32

abc

D

Device In**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out**error out**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

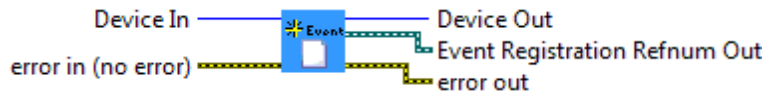
source string describes the origin of the error or warning.

Event Registration Refnum Out

5.11.11 MCEventCreateEMF.vi

MCEventCreateEMF.vi

Create the Phidget Motor Control EMF change event handle



132

132

TF

132

abc

132

132

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



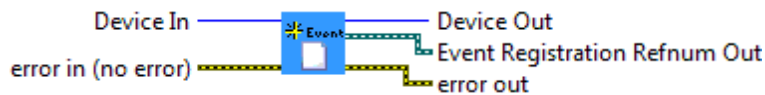
Event Registration Refnum Out

Event # Identification

5.11.12 MCEventCreateInput.vi

MCEventCreateInput.vi

Create the Phidget Motor Control input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



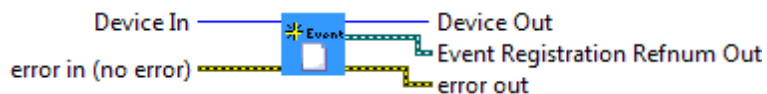
Event Registration Refnum Out

Event # Identification

5.11.13 MCEventCreatePositionChange.vi

MCEventCreatePositionChange.vi

Create the Phidget motor controller position change event handler



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



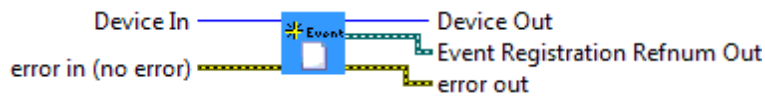
Event Registration Refnum Out

Event # Identification

5.11.14 MCEventCreatePositionUpdate.vi

MCEventCreatePositionUpdate.vi

Create the phidget motor controller position update event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

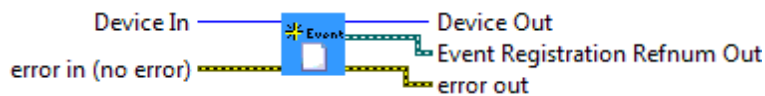
Event Registration Refnum Out

Event # Identification

5.11.15 MCEventCreateSensorUpdate.vi

MCEventCreateSensorUpdate.vi

Create the Phidget Motor controller Sensor update event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

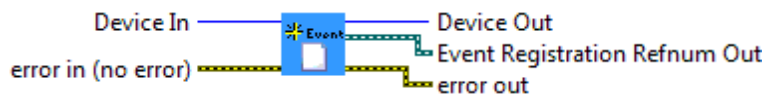
Event Registration Refnum Out

Event # Identification

5.11.16 MCEventCreateVelocity.vi

MCEventCreateVelocity.vi

Create the Phidget Motor Control velocity change event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



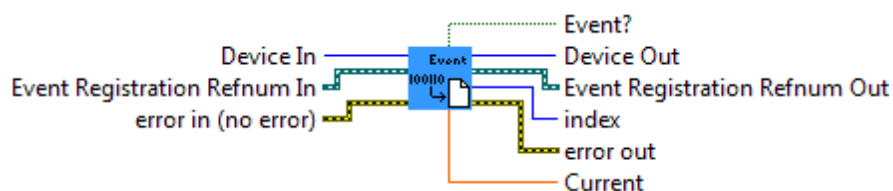
Event Registration Refnum Out

Event # Identification

5.11.17 MCEventExeCurrent.vi

MCEventExeCurrent.vi

Executes on an MC Current change event





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Current

The current



index

The motor index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



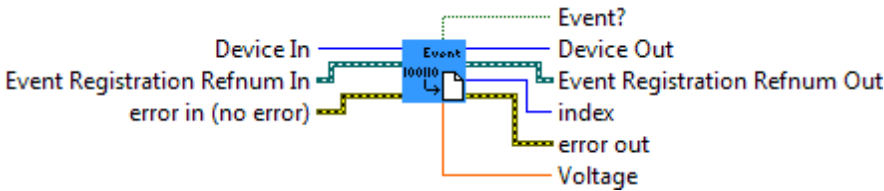
Event Registration Refnum Out

Event # Identification

5.11.18 MCEventExeEMF.vi

MCEventExeEMF.vi

Executes on an EMF event



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Voltage

The voltage



index

The motor index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



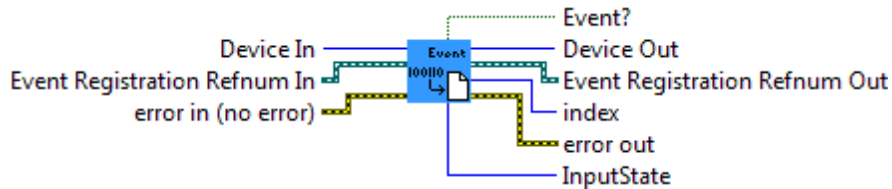
Event Registration Refnum Out

Event # Identification

5.11.19 MCEventExeInput.vi

MCEventExeInput.vi

Executes when the state of a digital input changes.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device In**

Device # Identification.

**Event Registration Refnum In**

Event # Identification

**index**

The input index

**InputState**

The state of the input

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

Same as Device In

**Event?**

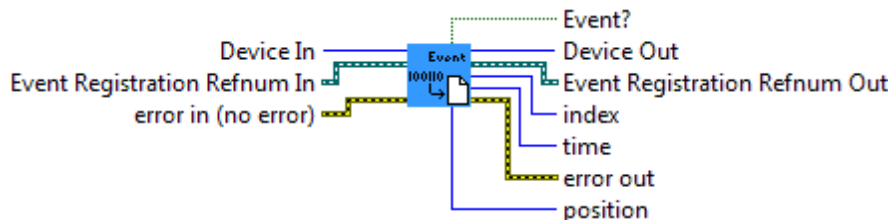
Returns TRUE if the event has executed, or FALSE otherwise.

**Event Registration Refnum Out**

Event # Identification

5.11.20 MCEventExePositionChange.vi**MCEventExePositionChange.vi**

Executes if the motor's position changes.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.

Event Registration Refnum Out

Event # Identification

index

The encoder index

time

The amount of time in which PositionChange counts occurred in 1/3 ms

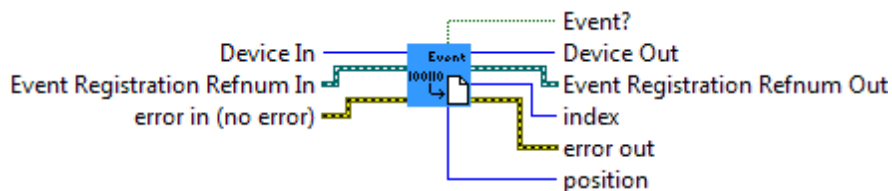
position

The change in encoder position

5.11.21 MCEventExePositionUpdate.vi

MCEventExePositionUpdate.vi

Executes every 8ms regardless of is the position changed or not.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



index

The motor index



position

The change in position



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



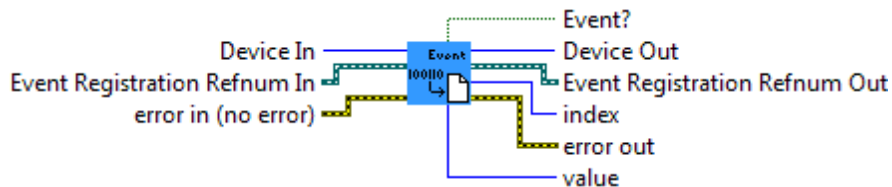
Event Registration Refnum Out

Event # Identification

5.11.2 MCEventExeSensorUpdate.vi

MCEventExeSensorUpdate.vi

An event containing sensor value information for sensors plugged into the Analog Inputs.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



index

The motor index



value

The sensor's value



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



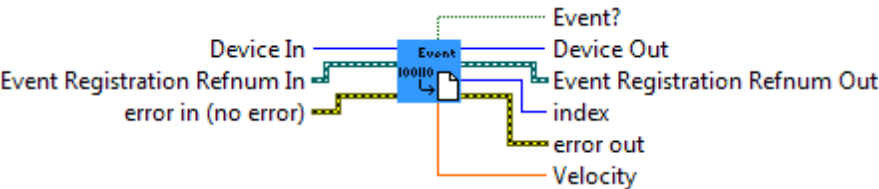
Event Registration Refnum Out

Event # Identification

5.11.23 MCEventExeVelocity.vi

MCEventExeVelocity.vi

Executes when the velocity a motor is being driven at changes



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Velocity

The velocity

index

The motor index

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source string describes the origin of the error or warning.

Event?

Returns TRUE if the event has executed, or FALSE otherwise.

Event Registration Refnum Out

Event # Identification

5.11.24 MCGetAcceleration.vi

MCGetAcceleration.vi

Gets the motor's acceleration



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Acceleration

The acceleration

5.11.25 MCGetAccelerationMax.vi

MCGetAccelerationMax.vi

Gets the maximum settable acceleration.



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Acceleration Max

Maximum acceleration

5.11.26 MCGetAccelerationMin.vi

MCGetAccelerationMin.vi

Gets the minimum settable acceleration.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

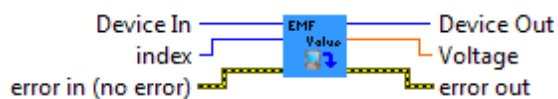
Acceleration Min

Minimum acceration.

5.11.27 MCGetBackEMFValue.vi

MCGetBackEMFValue.vi

Gets the back EMF voltage



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

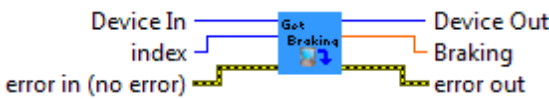
Voltage

The back EMF voltage

5.11.28 MCGetBraking.vi

MCGetBraking.vi

Gets the braking amount for the motor at rest.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

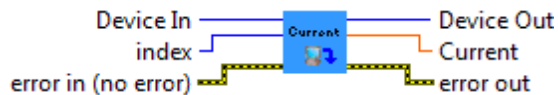
Braking

The braking percentage (0-100%)

5.11.29 MCGetCurrent.vi

MCGetCurrent.vi

Get the current flowing through the motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



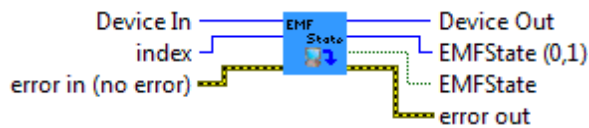
Current

The current

5.11.30 MCGetEMFState.vi

MCGetEMFState.vi

Get the EMF sensing state. When back-EMF sensing is enabled, the motor will coast (freewheel) 5% of the time while the back EMF measurement is taken.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

EMFState (0,1)

The EMF sensing state. Possible values are 0 for False, 1 for True and others for undefined

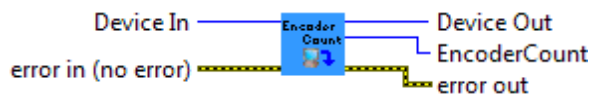
EMFState

The EMF sensing state. Possible values are True for Enabled and False for Not Enabled

5.11.31 MCGetEncoderCount.vi

MCGetEncoderCount.vi

Returns the number of encoder inputs



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

EncoderCount

The number of encoder inputs

5.11.32 MCGetEncoderPosition.vi

MCGetEncoderPosition.vi

Gets the encoder position.



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



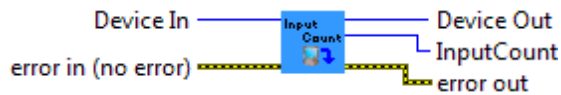
Position

Encoder position

5.11.33 MCGetInputCount.vi

MCGetInputCount.vi

Get the number of digital inputs on the motor controller.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



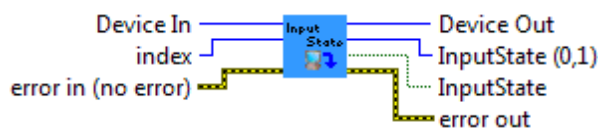
InputCount

The number of digital inputs.

5.11.34 MCGetInputState.vi

MCGetInputState.vi

Gets the state of the digital input.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



InputState (0,1)

The input state. Possible values are 0 for False, 1 for True and others for undefined



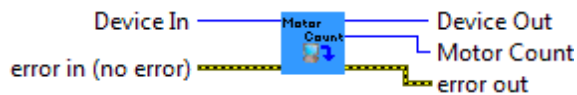
InputState

The input state. (boolean)

5.11.35 MCGetMotorCount.vi

MCGetMotorCount.vi

Gets the number of motors the controller can handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

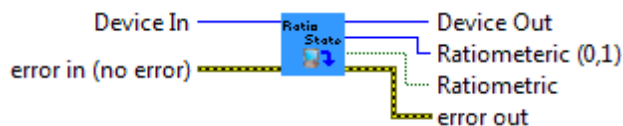
Motor Count

The number of motors

5.11.36 MCGetRatiometricState.vi

MCGetRatiometricState.vi

Gets the ratiometric state for the analog inputs.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Ratiometric (0,1)

The ratiometric state. Possible values are 0 for False, 1 for True and others for undefined



Ratiometric

The ratiometric state of the input (boolean)

5.11.37 MCGetSensorCount.vi

MCGetSensorCount.vi

The number of analog sensors the MC can accommodate.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

abc

code is the error or warning code.

source

source describes the origin of the error or warning.

132

SensorCount

The number of sensors

5.11.38 MCGetSensorValue.vi

MCGetSensorValue.vi

Gets the current value for a sensor input. Range is 0-1000



132

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

False

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

TF

code

code is the error or warning code.

source

source describes the origin of the error or warning.

132

abc

index

132



The sensor index

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Value

The sensor value

5.11.39 MCGetSensorValueRAW.vi

MCGetSensorValueRAW.vi

Gets the raw 12-bit value for a sensor input. Range is 0-4096



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The sensor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Value (Raw)

The raw sensor value

5.11.40 MCGetSupplyVoltage.vi

MCGetSupplyVoltage.vi

Gets the voltage of the poser supply.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Voltage

The voltage

5.11.41 MCGetVelocity.vi

MCGetVelocity.vi

Velocity is the percentage of time the motor is being powered for, from -100% to 100%



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

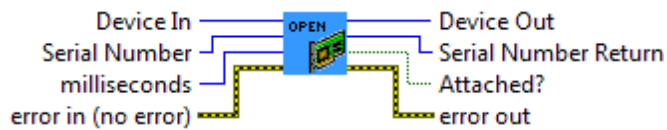
Velocity

The velocity

5.11.42 MCOpen.vi

MCOpen.vi

Open a Phidget Motor controller



132

Serial Number

Serial Number. Specify -1 to open any.

132

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

5000

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

source

source string describes the origin of the error or warning.

132

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

132

Serial Number Return

Serial Number of the opened phidget

TF

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

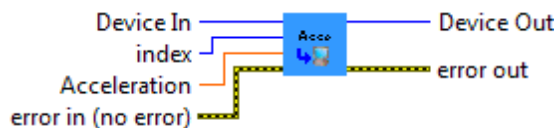
Device Out

Same as Device In

5.11.43 MCSetAcceleration.vi

MCSetAcceleration.vi

Set the motor's acceleration (in % duty cycle/second)



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Acceleration

The acceleration.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

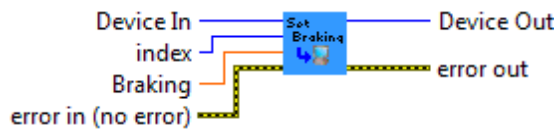
source

source describes the origin of the error or warning.

5.11.44 MCSetBraking.vi

MCSetBraking.vi

Set the braking amount for a motor at rest.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Braking

The braking duty cycle

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

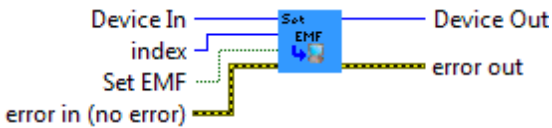
source

source describes the origin of the error or warning.

5.11.45 MCSetEMFState.vi

MCSetEMFState.vi

Set the EMF Sensing State



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

Set EMF

The EMF Sensing State

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

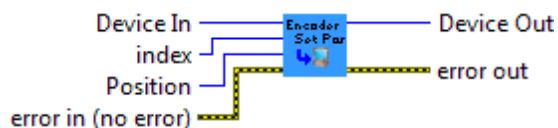
source

source describes the origin of the error or warning.

5.11.46 MCSetEncoderPosition.vi

MCSetEncoderPosition.vi

Set the encoder position



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Position

The position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

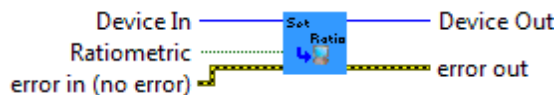
status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



5.11.47 MCSetRatiometricState.vi

MCSetRatiometricState.vi

Set the ratiometric state for the device.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Ratiometric

The ratiometric state

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



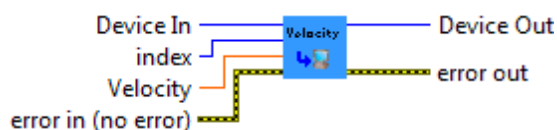
source

source describes the origin of the error or warning.

5.11.48 MCSetVelocity.vi

MCSetVelocity.vi

Set the Motor controller velocity in % duty cycle from -100% to 100%



Device In



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

Velocity

Device Out

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

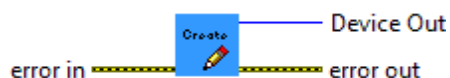
source describes the origin of the error or warning.

5.12 PHSensor

5.12.1 PHCreate.vi

PHCreate.vi

Create a Phidget PH Sensor handle.



**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

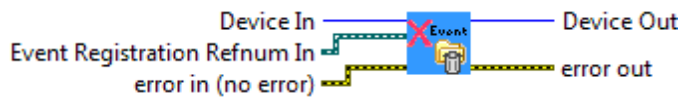
source string describes the origin of the error or warning.

**Device Out**

Device # identification

5.12.2 PHEventClose.vi**PHEventClose.vi**

Close the Phidget PH Sensor change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

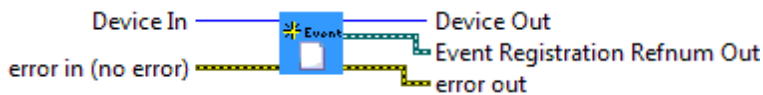
source

source string describes the origin of the error or warning.

5.12.3 PHEventCreate.vi

PHEventCreate.vi

Set up a PH change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

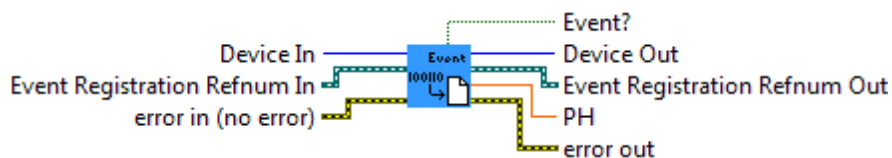
Event Registration Refnum Out

Event # Identification

5.12.4 PHEventExe.vi

PHEventExe.vi

This is called when the PH changes by more then the change trigger



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

PH

The PH

Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as the Event Registration Refnum In



5.12.5 PHGetPH.vi

PHGetPH.vi

Get the measured PH

**Device In**

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

I32

abc

DEL

5.12.6 PHGetPHMax.vi

PHGetPHMax.vi

Get the maximum PH that the sensor could report



I32

DEL

TF

I32

abc

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

PH

The PH

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

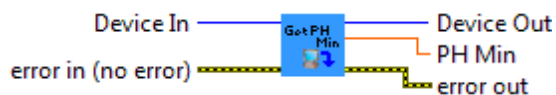
PH Max

The maximum PH

5.12.7 PHGetPHMin.vi

PHGetPHMin.vi

Get the minimum PH that the sensor could report



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

PH Min

The minimum PH

5.12.8 PHGetPHTrigger.vi

PHGetPHTrigger.vi

Get the PH change trigger



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

PH Trigger

The change trigger

5.12.9 PHGetPotential.vi

PHGetPotential.vi

Get the sensed potential



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

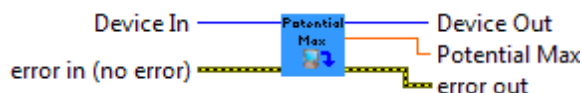
Potential

The potential

5.12.10 PHGetPotentialMax.vi

PHGetPotentialMax.vi

Get the maximum potential that can be sensed



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Potential Max

The maximum potential

5.12.11 PHGetPotentialMin.vi

PHGetPotentialMin.vi

Get the minimum potential that can be sensed



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

I32

abc

DEL

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

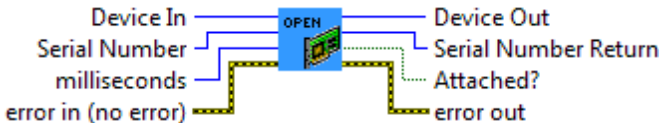
Potential Min

The minimum potential

5.12.12 PHOpen.vi

PHOpen.vi

Open a Phidget PH Sensor



I32

I32

F32

TF

I32

Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

5.12.13 PHSetTemperature.vi

PHSetTemperature.vi

Set the temperature to be used for PH calculations



I32

Err

TF

I32

abc

DBL

I32

Err

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Temperature

The temperature (degrees celcius). By default this is 20.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.12.14 PHSetTrig.vi

PHSetTrig.vi

Set the PH change trigger.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Trigger



The change trigger

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.13 RFID

5.13.1 RFIDCreate.vi

RFIDCreate.vi

Create a Phidget RFID handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

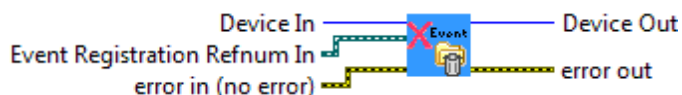
Device Out

Device # identification

5.13.2 RFIDEventClose.vi

RFIDEventClose.vi

Close the Phidget RFID Tag or TagLost event handle



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

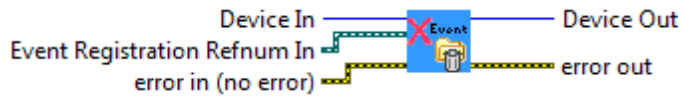
source string describes the origin of the error or warning.



5.13.3 RFIDEventClose2.vi

RFIDEventClose2.vi

Close the Phidget RFID Tag or TagLost event handle (2)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

I32

abc

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

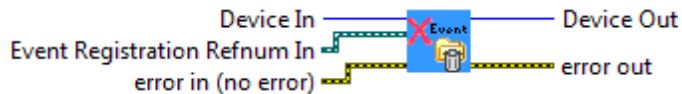
source

source string describes the origin of the error or warning.

5.13.4 RFIDEventCloseOutput.vi

RFIDEventCloseOutput.vi

Close the Phidget RFID output change event handle



I32

I32

TF

I32

abc

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



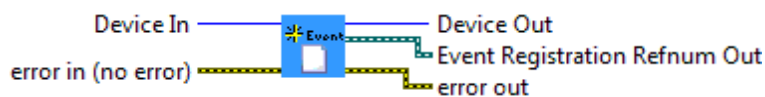
source

source string describes the origin of the error or warning.

5.13.5 RFIDEventCreateOutput.vi

RFIDEventCreateOutput.vi

Set up an output change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

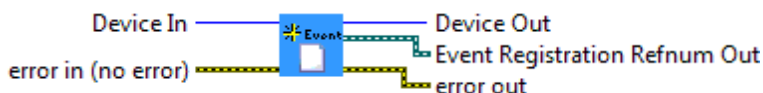
Event Registration Refnum Out

Event # Identification

5.13.6 RFIDEventCreateTag.vi

RFIDEventCreateTag.vi

Set up a tag change event handle





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



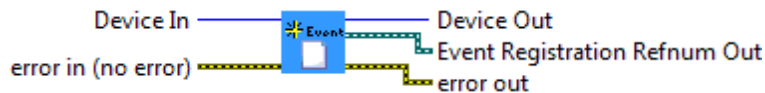
Event Registration Refnum Out

Event # Identification

5.13.7 RFIDEventCreateTag2.vi

RFIDEventCreateTag2.vi

Set up a tag change event handle (2)

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

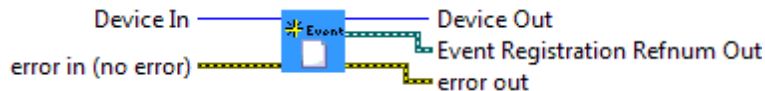
Event Registration Refnum Out

Event # Identification

5.13.8 RFIDEventCreateTagLost.vi

RFIDEventCreateTagLost.vi

Set up a tag lost event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

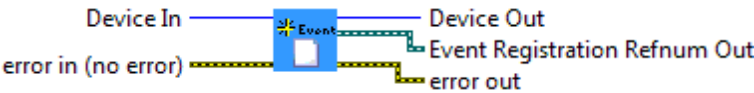
Event Registration Refnum Out

Event # Identification

5.13.9 RFIDEventCreateTagLost2.vi

RFIDEventCreateTagLost2.vi

Set up a tag lost event handle (2)



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

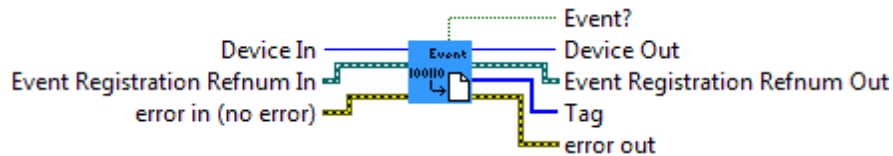
Event Registration Refnum Out

Event # Identification

5.13.10 RFIDEventExe.vi

RFIDEventExe.vi

This is called when the Phidget RFID Tag or TagLost event changes. Tag Event is called when a tag is first detected by the reader. TagLost Event is called when a tag is no longer detected by the reader



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event?

Returns TRUE if the event has executed, or FALSE otherwise.

Tag

The tag.

a

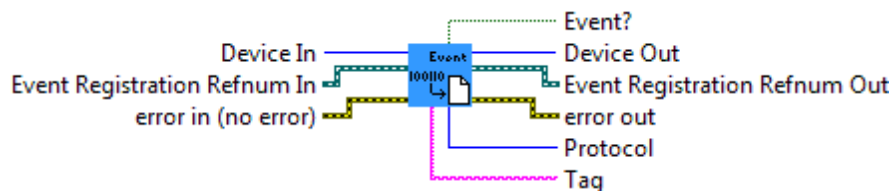
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.13.11 RFIDEventExe2.vi

RFIDEventExe2.vi

This is called when the Phidget RFID Tag or TagLost event changes. (2)



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Tag



The tag.

Protocol

The protocol being used.

Event Registration Refnum Out

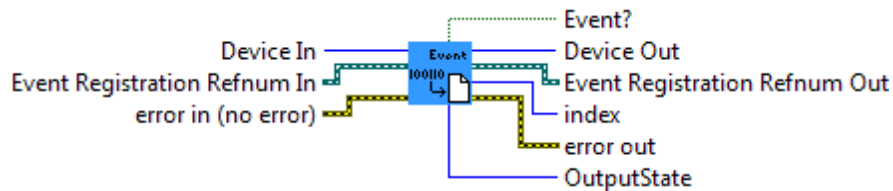
Event # Identification



5.13.12 RFIDEventExeOutput.vi

RFIDEventExeOutput.vi

This is called when an output changes



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

**Device In**

Device # Identification.

**index**

The output index

**OutputState**

The output state. Possible values are 0 for False, 1 for True and others for undefined

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Event # Identification

**Device Out**

Same as Device In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5.13.13 RFIDGetAntennaState.vi**RFIDGetAntennaState.vi**

Get the state of the antenna



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Antenna State

The antenna state. Possible values are 0 for False, 1 for True and others for undefine

Antenna On?

The antenna state

5.13.14 RFIDGetLastTag.vi

RFIDGetLastTag.vi

Get the last tag read by the reader. This tag may or may not still be on the reader



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

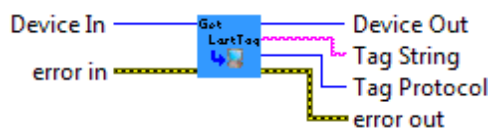
Tag

The tag. This must be an unsigned char array of size 5.

5.13.15 RFIDGetLastTag2.vi

RFIDGetLastTag2.vi

Get the last tag read by the reader. This tag may or may not still be on the reader. (2)



error in



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In

Tag String

The tag string

Tag Protocol

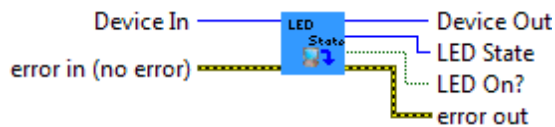


The tag protocol

5.13.16 RFIDGetLEDState.vi

RFIDGetLEDState.vi

Get the state of the onboard LED



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

LED State

The LED state. Possible values are 0 for False, 1 for True and others for undefined

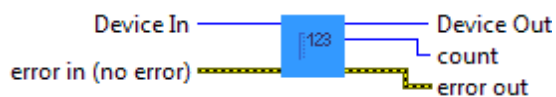
LED On?

The LED state

5.13.17 RFIDGetOutputCount.vi

RFIDGetOutputCount.vi

Get the number of outputs supported by this board.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

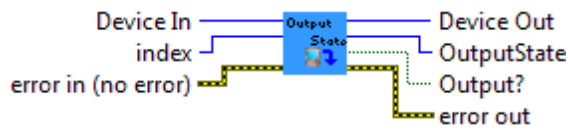
count

The number of outputs.

5.13.18 RFIDGetOutputState.vi

RFIDGetOutputState.vi

Get the state of an output



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The output index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

OutputState

The output state. Possible values are 0 for False, 1 for True and others for undefined

Output?

The output state.

5.13.19 RFIDGetTagState.vi

RFIDGetTagState.vi

Get the tag present status. This is whether or not a tag is being read by the reader.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



Tag State

The tag state. Possible values are 0 for False, 1 for True and others for undefined.



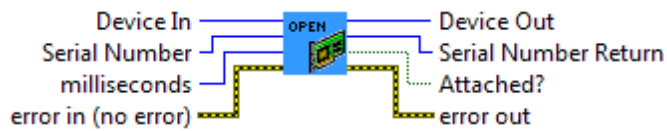
Tag On?

The tag state

5.13.20 RFIDOpen.vi

RFIDOpen.vi

Open a Phidget RFID



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In

5.13.21 RFIDSetAntennaState.vi

RFIDSetAntennaState.vi

Set the state of the antenna. Note that the antenna must be enabled before tags will be read



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

AntennaState

The antenna state

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

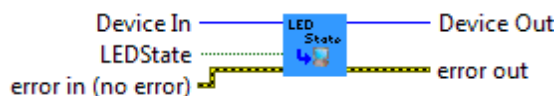
source

source describes the origin of the error or warning.

5.13.22 RFIDSetLEDState.vi

RFIDSetLEDState.vi

Set the state of the onboard LED



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

LEDState

Set the LED state

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

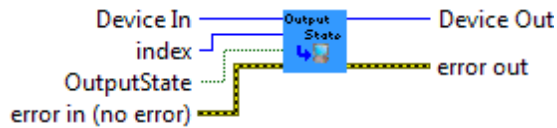
source

source describes the origin of the error or warning.

5.13.23 RFIDSetOutputState.vi

RFIDSetOutputState.vi

Set the state of an output



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

OutputState

Set the output state

index

The output index

Device Out

Same as Device In

error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

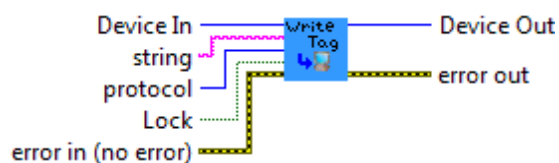
source

source describes the origin of the error or warning.

5.13.24 RFIDWriteTag.vi

RFIDWriteTag.vi

Write an RFID Tag



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

string

The data to send

protocol

The protocol to use

Lock

Locks the tag from further writes.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

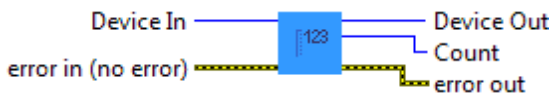
source describes the origin of the error or warning.

5.14 Servo

5.14.1 ServoCount.vi

ServoCount.vi

Gets the number of motors supported by this controller.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

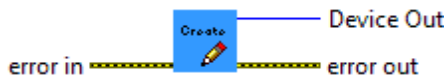
source describes the origin of the error or warning.

Count

The motor count.

5.14.2 ServoCreate.vi**ServoCreate.vi**

Create a Phidget Servo handle.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



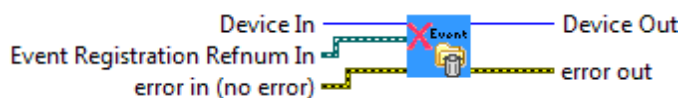
Device Out

Device # identification

5.14.3 ServoEventClose.vi

ServoEventClose.vi

Close the Phidget Servo event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

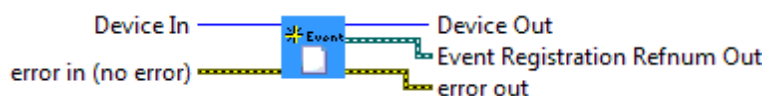
source

source string describes the origin of the error or warning.

5.14.4 ServoEventCreate.vi

ServoEventCreate.vi

Set up a position change event handle



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



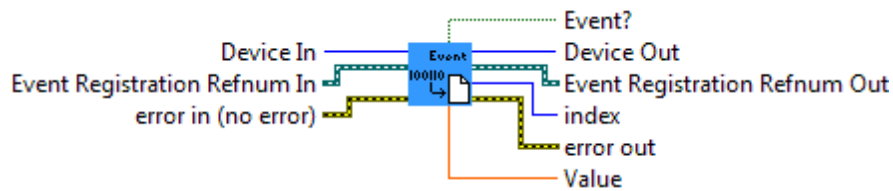
Event Registration Refnum Out

Event # Identification

5.14.5 ServoEventExe.vi

ServoEventExe.vi

This is called when the Phidget Advanced Servo event occurs

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Value**

The return value of the position



index

The servo index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.14.6 ServoGetEngaged.vi

ServoGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The servo index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.

EngagedState_out

The engaged state. Possible values are 0 for False, 1 for True and others for undefined

Engaged?

The engaged state (Boolean type). Possible values are True for Engaged and False for Not Engaged.

5.14.7 ServoGetPos.vi

ServoGetPos.vi

Get the current position of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The servo index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



pos_out

The position

5.14.8 ServoGetPosMax.vi

ServoGetPosMax.vi

Get the maximum position that a motor can go to



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The servo index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



posmax_out

The maximum position

5.14.9 ServoGetPosMin.vi

ServoGetPosMin.vi

Get the minimum position that a motor can go to



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The servo index



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

posmin_out

The minimum position

5.14.10 ServoGetServoType.vi

ServoGetServoType.vi

Get the servo type of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

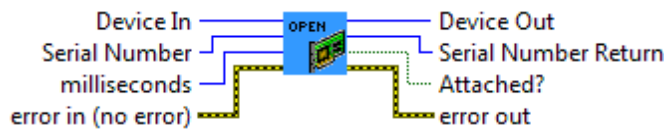
GetServoType

Returns the servo type. This is an enum. Please refer to [Phidgets Constants](#) -> [ServoType](#)

5.14.11 ServoOpen.vi

ServoOpen.vi

Open a PhidgetServo.



132

Serial Number

Serial Number. Specify -1 to open any.

132

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

5000

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code

code is the error or warning code.

abc

source

source string describes the origin of the error or warning.

132

Device In

Device # Identification. This function will create a new device identification if it's 0

132

Serial Number Return

Serial Number of the opened phidget

TF

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

5000

error out

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

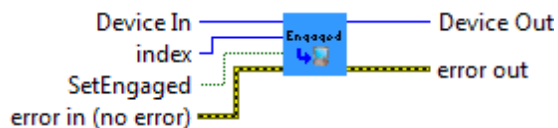
Device Out

Same as Device In

5.14.12 ServoSetEngaged.vi

ServoSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The servo index



SetEngaged

The engaged state of the servo.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



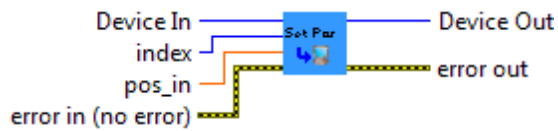
source

source describes the origin of the error or warning.

5.14.13 ServoSetPos.vi

ServoSetPos.vi

Set the position of a motor.



I32↑

Fwd↑

TF↑

I32↑

abc↑

DBL↑

I32↑

I32↑

Fwd↑

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

pos_in

The servo position

index

The servo index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

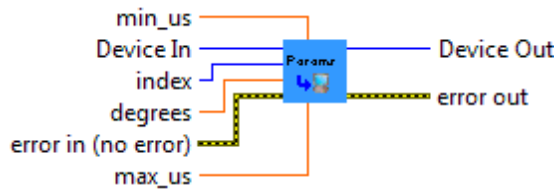
source

source describes the origin of the error or warning.

5.14.14 ServoSetServoParameters.vi

ServoSetServoParameters.vi

Set the servo parameters of a motor

**Device In**

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

index

The servo index

min_us

The minimum supported PCM in microseconds

max_us

The maximum supported PCM in microseconds

degrees

The degrees of rotation defined by the given PCM range

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

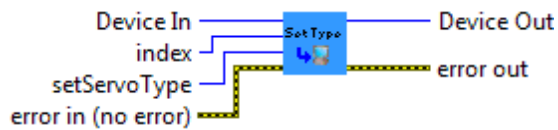
source

source describes the origin of the error or warning.

5.14.15 ServoSetServoType.vi

ServoSetServoType.vi

Set the servo type of a motor



132

5

TF

132

abc

132

132

132

5

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The servo index

setServoType

The servo type. This is an enum. Please refer to [Phidgets Constants](#) -> [ServoType](#)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.15 Spatial

5.15.1 SpatialCreate.vi

SpatialCreate.vi

Create a Phidget Spatial handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



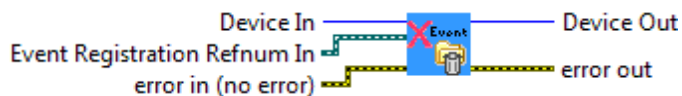
Device Out

Device # identification

5.15.2 SpatialEventClose.vi

SpatialEventClose.vi

Close the Phidget Spatial event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or



FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

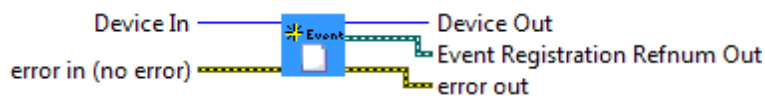
source

source string describes the origin of the error or warning.

5.15.3 SpatialEventCreate.vi

SpatialEventCreate.vi

Set up a data change event handle



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



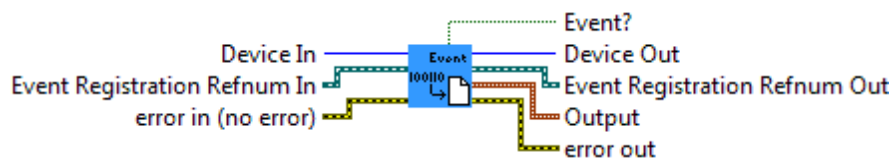
Event Registration Refnum Out

Event # Identification

5.15.4 SpatialEventExe.vi

SpatialEventExe.vi

This is called when data come. It is called at SpatialGetDataRate, up to 8ms. For the rate faster than 8ms, multiple sets of data are supplied in a single event.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



error out

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Event # Identification



Output

The Output Data



acc0

Acceleration X.



acc1

Acceleration Y.



acc2

Acceleration Z



ang0

Angular rate X



ang1

Angular rate Y



ang2



Angular rate Z

mag0

Magnetic field X

mag1

Magnetic field Y

mag2

Magnetic field Z

sec

Timestamp in s

micsec

Timestamp in ms

5.15.5 SpatialGetAcce.vi

SpatialGetAcce.vi

Get the current acceleration data of an axis

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**



code is the error or warning code.

source

source describes the origin of the error or warning.



index

The acceleration index. (x, y, z)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



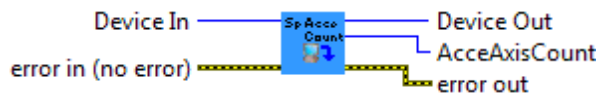
Acce

The acceleration in gs

5.15.6 SpatialGetAcceAxisCount.vi

SpatialGetAcceAxisCount.vi

Get the number of acceleration axes supplied by this board



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

abc

code is the error or warning code.
source

source describes the origin of the error or warning.

132

AcceAxisCount
The axis count

5.15.7 SpatialGetAcceMax.vi

SpatialGetAcceMax.vi

Get the maximum acceleration supported by an axis



132

Device In
Device # Identification.

132

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status
status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

132

code is the error or warning code.
source

abc

source describes the origin of the error or warning.

132

index



The acceleration index. (x, y, z)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

AcceMax

The maximum acceleration

5.15.8 SpatialGetAcceMin.vi

SpatialGetAcceMin.vi

Get the minimum acceleration supported by an axis



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The axis index (x, y, z)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



AcceMin

The minimum acceleration

5.15.9 SpatialGetAngRate.vi

SpatialGetAngRate.vi

Get the current angular rate of an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The axis index (x, y, z)



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

AngRate

The angular rate in degrees/second

5.15.10 SpatialGetAngRateMax.vi

SpatialGetAngRateMax.vi

Get the maximum angular rate supported by an axis



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The axis index (x, y, z)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

AngRateMax

The maximum angular rate

5.15.11 SpatialGetAngRateMin.vi

SpatialGetAngRateMin.vi

Get the minimum angular rate supported by an axis



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The axis index (x, y, z)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

AngRateMin

The minimum angular rate

5.15.12 SpatialGetCompassAxisCount.vi

SpatialGetCompassAxisCount.vi

Get the number of compass axes supplied by this board



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



CompassAxisCount

The number of compass axes

5.15.13 SpatialGetDataRate.vi

SpatialGetDataRate.vi

Get the data rate



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.





5.15.14 SpatialGetDataRateMax.vi

SpatialGetDataRateMax.vi

Get the maximum supported data rate



DataRate

The data rate in milliseconds

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

DataRateMax

The data rate in milliseconds

5.15.15 SpatialGetDataRateMin.vi

SpatialGetDataRateMin.vi

Get the minimum supported data rate



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



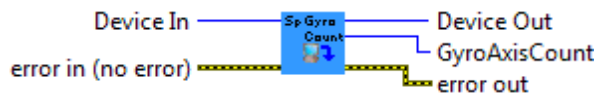
DataRateMin

The data rate in milliseconds

5.15.16 SpatialGetGyroAxisCount.vi

SpatialGetGyroAxisCount.vi

Get the number of gyroscope axes supplied by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

abc

132

5.15.17 SpatialGetMagField.vi

SpatialGetMagField.vi

Get the current magnetic field strength of an axis



132

TF

TF

132

abc

132

code is the error or warning code.

source

source describes the origin of the error or warning.

GyroAxisCount

The number of gyro axes.

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index



The axis index (x, y, z)

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



MagField

The magnetic field strength in Gauss

5.15.18 SpatialGetMagFieldMax.vi

SpatialGetMagFieldMax.vi

Get the maximum magnetic field strength supported by an axis.



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The axis index (x, y, z)

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



MagFieldMax

The maximum magnetic field strength in Gauss

5.15.19 SpatialGetMagFieldMin.vi

SpatialGetMagFieldMin.vi

Get the minimum magnetic field strength supported by an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The axis index (x, y, z)



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

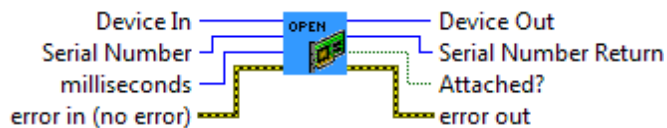
MagFieldMin

The minimum magnetic field strength in Gauss

5.15.20 SpatialOpen.vi

SpatialOpen.vi

Open a PhidgetSpatial



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid

**Serial Number Return**

Serial Number of the opened phidget

**Attached?**

Returns TRUE is the device successfully attached, or FALSE otherwise.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

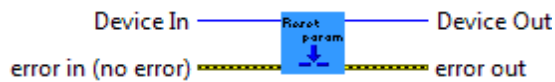
**Device Out**

Same as Device In

5.15.21 SpatialResetCompassCorrectionParameters.vi

SpatialResetCompassCorrectionParameters.vi

Reset the compass correction factors. Magnetic field data will be presented directly as reported by the sensor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.15.22 SpatialSetCompassCorrectionParameters.vi

SpatialSetCompassCorrectionParameters.vi

Set the compass correction factors. This can be used to correcting any sensor errors, including hard and soft iron offsets and sensor error factors.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Settings

The correction parameters.

magField

offset0

offset1

offset2

gain0

gain1

gain2

T0

T1

T2

T3

T4

T5



Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



5.15.23 SpatialSetDataRate.vi

SpatialSetDataRate.vi

Set the data rate. Note that data at rates faster than 8ms will be delivered to events as an array of data



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



DateRate

The data rate



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

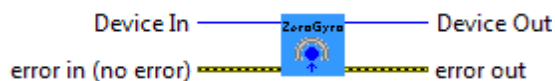
source

source describes the origin of the error or warning.

5.15.24 SpatialZeroGyro.vi

SpatialZeroGyro.vi

Zero the gyroscope. This takes about two seconds and the gyro axes will report 0 during the process. This should only be called when the board is not moving



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.16 Stepper

5.16.1 StepperCreate.vi

StepperCreate.vi

Create a Phidget Stepper handle.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

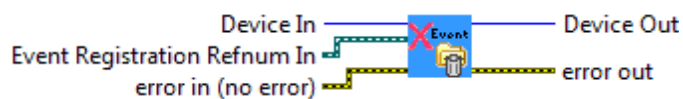
Device Out

Device # identification

5.16.2 StepperEventCloseCurrentVelocity.vi

StepperEventCloseCurrentVelocity.vi

Close the Phidget Stepper current change event handle



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

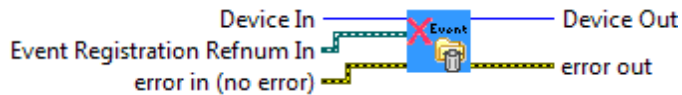
source string describes the origin of the error or warning.



5.16.3 StepperEventCloseInput.vi

StepperEventCloseInput.vi

Close the Phidget Stepper input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

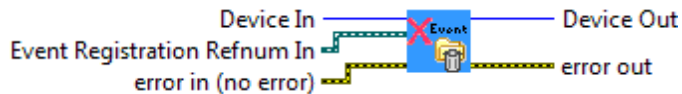
source

source string describes the origin of the error or warning.

5.16.4 StepperEventClosePosition.vi

StepperEventClosePosition.vi

Close the Phidget Stepper position change event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

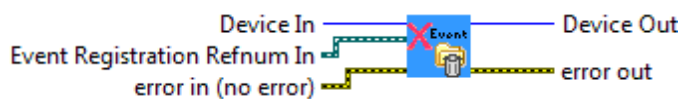
code is the error or warning code.

**source**

source string describes the origin of the error or warning.

5.16.5 StepperEventClosePosition71.vi**StepperEventClosePosition71.vi**

Close the Phidget Stepper position change event handle for Labview version 7.1 only

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

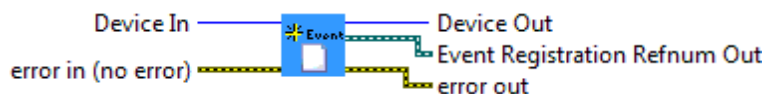
source

source string describes the origin of the error or warning.

5.16.6 StepperEventCreateCurrent.vi

StepperEventCreateCurrent.vi

Set up a current change event handle





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



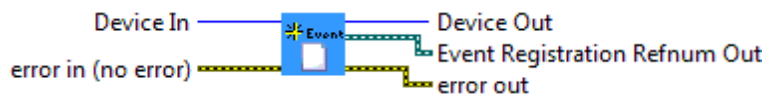
Event Registration Refnum Out

Event # Identification

5.16.7 StepperEventCreateInput.vi

StepperEventCreateInput.vi

Set up an input change event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

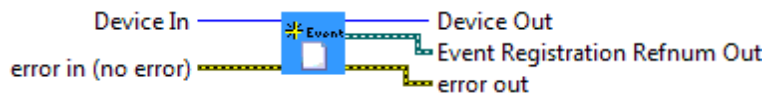
Event Registration Refnum Out

Event # Identification

5.16.8 StepperEventCreatePosition.vi

StepperEventCreatePosition.vi

Set up a position change event handle



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

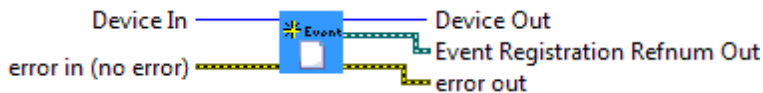
Event Registration Refnum Out

Event # Identification

5.16.9 StepperEventCreatePosition71.vi

StepperEventCreatePosition71.vi

Set up a position change event handle for Labview version 7.1 only



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

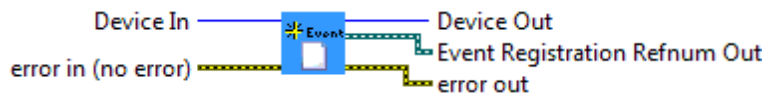
Event Registration Refnum Out

Event # Identification

5.16.10 StepperEventCreateVelocity.vi

StepperEventCreateVelocity.vi

Set up a velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



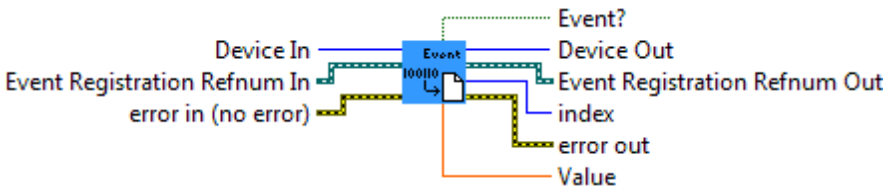
Event Registration Refnum Out

Event # Identification

5.16.11 StepperEventExeCurrentVelocity.vi

StepperEventExeCurrentVelocity.vi

This is called when the Phidget Stepper Current/Velocity event changes



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In



Event # Identification

Value

The return value of related event. (E.g. for velocity change event, this value is velocity.)

index

The motor index

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event Registration Refnum Out

Same as the Event Registration Refnum In

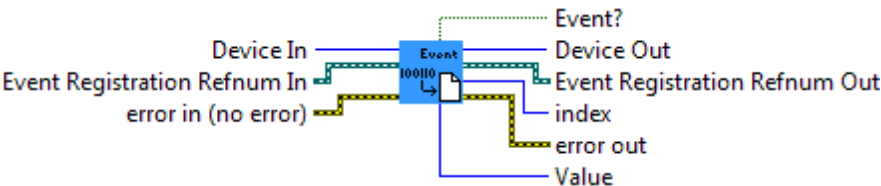
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.16.12 StepperEventExeInput.vi

StepperEventExeInput.vi

This is called when the Phidget Stepper Input event changes.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device In

Device # Identification.



index

The motor index



Value

The input



error out

error out passes error or warning information out of a VI to be used by other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Event Registration Refnum Out

Same as the Event Registration Refnum In

Device Out

Same as Device In

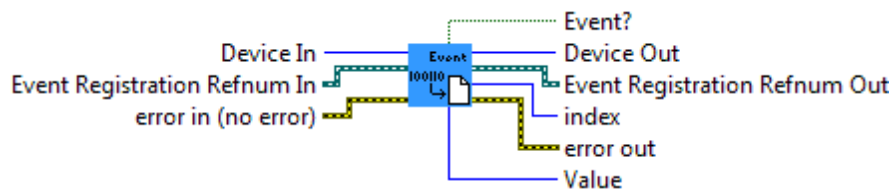
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.16.13 StepperEventExePosition.vi

StepperEventExePosition.vi

This is called when the Phidget Stepper Position event changes



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



index

The motor index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Value

The position



Event?

Returns TRUE if the event has executed, or



FALSE otherwise.

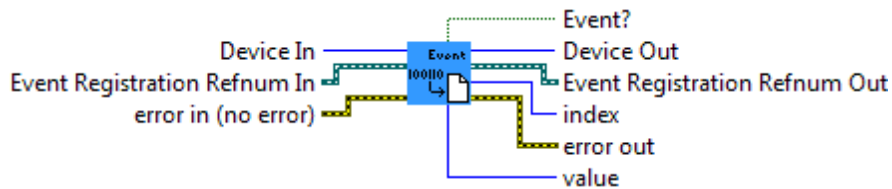
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.16.14 StepperEventExePosition71.vi

StepperEventExePosition71.vi

This is called when the Phidget Stepper Position event changes. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



index

The motor index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as the Event Registration Refnum In



value

The position

5.16.15 StepperGetAcceleration.vi

StepperGetAcceleration.vi

Get the last set acceleration for a motor



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Acce

The acceleration

5.16.16 StepperGetAccelerationMax.vi

StepperGetAccelerationMax.vi

Get the maximum acceleration supported by a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



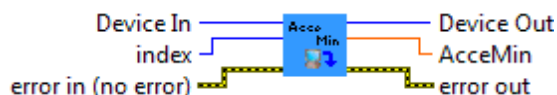
AcceMax

The maximum acceleration

5.16.17 StepperGetAccelerationMin.vi

StepperGetAccelerationMin.vi

Get the minimum acceleration supported by a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



AcceMin

The minimum acceleration



5.16.18 StepperGetCurrent.vi

StepperGetCurrent.vi

Get the current current draw for a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Current

The current

5.16.19 StepperGetCurrentLimit.vi

StepperGetCurrentLimit.vi

Get the current limit for a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Current Limit

The current limit

5.16.20 StepperGetCurrentMax.vi

StepperGetCurrentMax.vi

Get the maximum current limit



I32

FF

TF

I32

abc

I32

I32

FF

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

CurrentMax

The maximum current limit

5.16.21 StepperGetCurrentMin.vi

StepperGetCurrentMin.vi

Get the minimum current limit



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

CurrentMin

The minimum current limit.

5.16.22 StepperGetCurrentPosition.vi

StepperGetCurrentPosition.vi

Get the current position of a motor



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

abc

source

source describes the origin of the error or warning.

I32

Position

The position

5.16.23 StepperGetCurrentPosition71.vi

StepperGetCurrentPosition71.vi

Get the current position of a motor. This function is for Labview version 7.1 only



I32

Device In

Device # Identification.

err

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32

code

code is the error or warning code.

abc

source

source describes the origin of the error or warning.

I32

index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



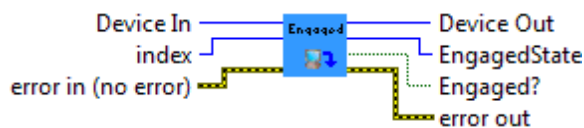
Position

The position

5.16.24 StepperGetEngaged.vi

StepperGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

EngagedState



The engaged state. Possible values are 0 for False, 1 for True and others for undefined

Engaged?

The engaged state (Boolean type). Possible values are True for Engaged and False for Not Engaged

5.16.25 StepperGetPositionMax.vi

StepperGetPositionMax.vi

Get the maximum position that a motor can go to



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index



The motor index

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



PositionMax

The maximum position

5.16.26 StepperGetPositionMax71.vi

StepperGetPositionMax71.vi

Get the maximum position that a motor can go to. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



PositionMax

Maximum position

5.16.27 StepperGetPositionMin.vi

StepperGetPositionMin.vi

Get the minimum position that a motor can go to.



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

PositionMin

The minimum position

5.16.28 StepperGetPositionMin71.vi

StepperGetPositionMin71.vi

Get the minimum position that a motor can go to. This function is for Labview version 7.1 only



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

PositionMin

The minimum position

5.16.29 StepperGetTargetPosition.vi

StepperGetTargetPosition.vi

Get the last set target position of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Position

The position

5.16.30 StepperGetTargetPosition71.vi

StepperGetTargetPosition71.vi

Get the last set target position of a motor. This function is for Labview version 7.1 only



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Position

The position

5.16.31 StepperGetVelocity.vi

StepperGetVelocity.vi

Get the current velocity of a motor



I32

Err

TF

I32

abc

I32

I32

Err

TF

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Velocity

The velocity

5.16.32 StepperGetVelocityLimit.vi

StepperGetVelocityLimit.vi

Get the last set velocity limit for a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

VelocityLimit

The velocity limit

5.16.33 StepperGetVelocityMax.vi

StepperGetVelocityMax.vi

Get the maximum velocity that can be set for a motor



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



VelocityMax

The maximum velocity

5.16.34 StepperGetVelocityMin.vi

StepperGetVelocityMin.vi

Get the minimum velocity that can be set for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



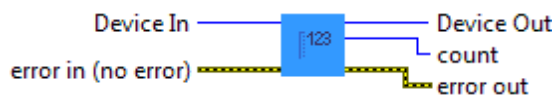
VelocityMin

The minimum velocity

5.16.35 StepperInputCount.vi

StepperInputCount.vi

Get the number of digital inputs supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

source

source describes the origin of the error or warning.

**count**

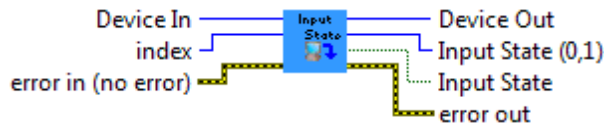
The digital input count



5.16.36 StepperInputState.vi

StepperInputState.vi

Get the state of a digital input



I32

Boolean

Boolean

I32

String

I32

I32

Boolean

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Input State (0,1)

The input state. Possible values are 0 for False, 1 for True and others for undefined

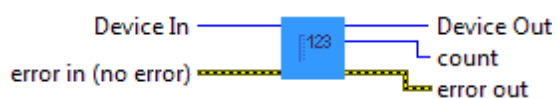
Input State

The input state (Boolean type).

5.16.37 StepperMotorCount.vi

StepperMotorCount.vi

Get the number of motors supported by this controller



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

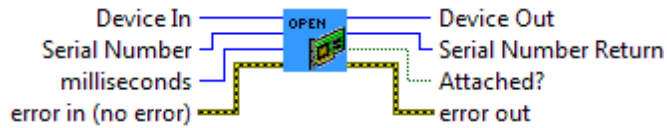
source describes the origin of the error or warning.

count

The motor count

5.16.38 StepperOpen.vi

StepperOpen.vi



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

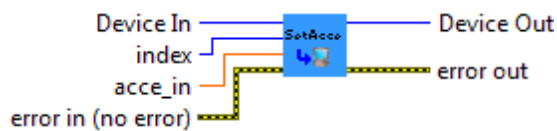
source string describes the origin of the error or warning.

Device Out

Same as Device In

5.16.39 StepperSetAcceleration.vi**StepperSetAcceleration.vi**

Set the acceleration for a motor.

**Device In**

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

source describes the origin of the error or warning.

acce_in

The acceleration

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

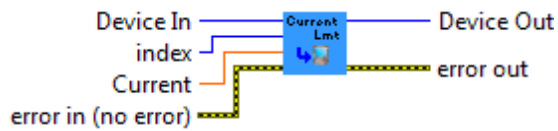
source

source describes the origin of the error or warning.

5.16.40 StepperSetCurrentLimit.vi

StepperSetCurrentLimit.vi

Set the current limit for a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Current

The current limit

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



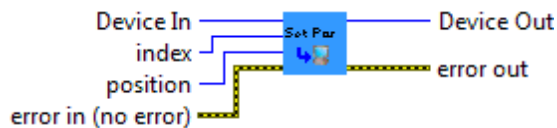
source

source describes the origin of the error or warning.

5.16.41 StepperSetCurrentPosition.vi

StepperSetCurrentPosition.vi

Set the current position of a motor. It will not move the motor, just update the position value



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or



warning.

position

The position

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

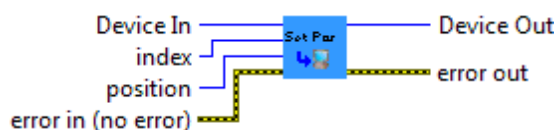
source

source describes the origin of the error or warning.

5.16.42 StepperSetCurrentPosition71.vi

StepperSetCurrentPosition71.vi

Set the current position of a motor. It will not move the motor, just update the position value. This function is for Labview version 7.1 only.



Device In



Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



position

The position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

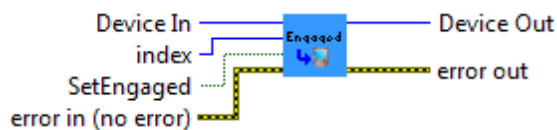
source

source describes the origin of the error or warning.

5.16.43 StepperSetEngaged.vi

StepperSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



SetEngaged

Set the engage state

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

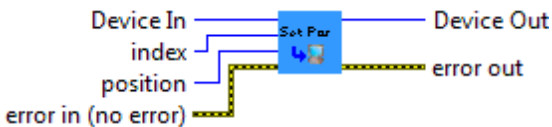
source

source describes the origin of the error or warning.

5.16.44 StepperSetTargetPosition.vi

StepperSetTargetPosition.vi

Set the target position of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should



be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

position

The position

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

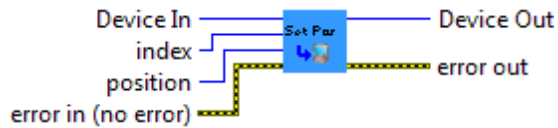
source

source describes the origin of the error or warning.

5.16.45 StepperSetTargetPosition71.vi

StepperSetTargetPosition71.vi

Set the target position of a motor. This function is for Labview version 7.1 only.



I32↑

Error Out

TF↑

I32↑

abc↑

I32↑

I32↑

I32↑

Error Out

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

position

The position

Device Out

Same as Device In

error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

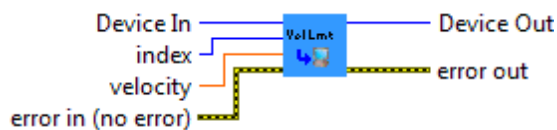
source

source describes the origin of the error or warning.

5.16.46 StepperSetVelocityLimit.vi

StepperSetVelocityLimit.vi

Set the velocity limit for a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



velocity

The velocity limit



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



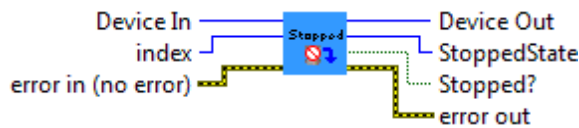
source

source describes the origin of the error or warning.

5.16.47 StepperStoppedState.vi

StepperStoppedState.vi

Get the stopped state of a motor. This is true when the motor is not moving and there are no outstanding commands



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The motor index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

StoppedState

The stopped state. Possible values are 0 for False, 1 for True and others for undefined.

Stopped?

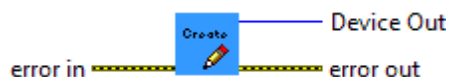
The stopped state (Boolean type). Possible values are True for Stopped and False for Not Stopped

5.17 TemperatureSensor

5.17.1 TempCreate.vi

TempCreate.vi

Create a Phidget Temperature Sensor handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.



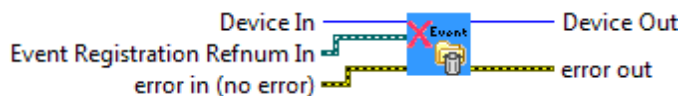
Device Out

Device # identification

5.17.2 TempEventClose.vi

TempEventClose.vi

Close the Phidget Temperature Sensor event handle.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.





status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



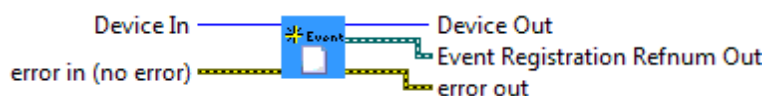
source

source string describes the origin of the error or warning.

5.17.3 TempEventCreate.vi

TempEventCreate.vi

Set up a temperature change event handle





Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

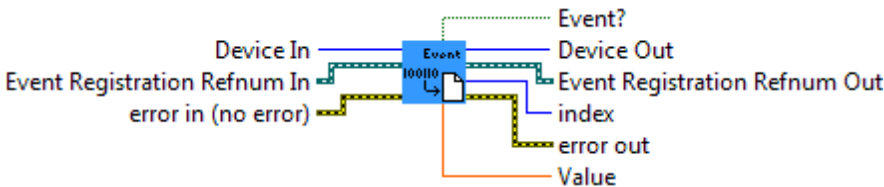
Event Registration Refnum Out

Event # identification

5.17.4 TempEventExe.vi

TempEventExe.vi

This is called when the temperature changes by more then the change trigger



- 1321
- 1321
- TF
- 1321
- abc
- D
- DEL

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification

Value

The temperature



index

The input index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In



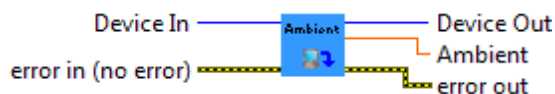
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.17.5 TempGetAmbient.vi

TempGetAmbient.vi

Get the ambient (board) temperature



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Ambient

The ambient (board) temperature

5.17.6 TempGetAmbientMax.vi

TempGetAmbientMax.vi

Get the maximum temperature that the ambient onboard temperature sensor can measure



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Ambient Max

The maximum temperature

5.17.7 TempGetAmbientMin.vi

TempGetAmbientMin.vi

Get the minimum temperature that the ambient onboard temperature sensor can measure



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Ambient Min

The minimum temperature

5.17.8 TempGetPotential.vi

TempGetPotential.vi

Get the currently sensed potential for a thermocouple input



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



potential

The potential

5.17.9 TempGetPotentialMax.vi

TempGetPotentialMax.vi

Get the maximum potential that a thermocouple input can measure



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

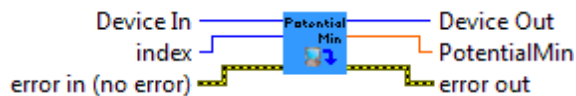
PotentialMax

The maximum potential

5.17.10 TempGetPotentialMin.vi

TempGetPotentialMin.vi

Get the minimum potential that a thermocouple input can measure



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

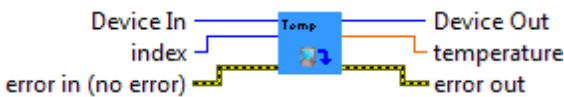
PotentialMin

The minimum potential

5.17.11 TempGetTemperature.vi

TempGetTemperature.vi

Get the temperature measured by a thermocouple input



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Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

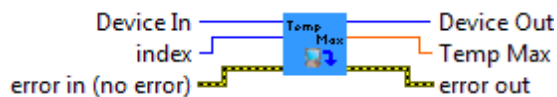
temperature

The temperature

5.17.12 TempGetTemperatureMax.vi

TempGetTemperatureMax.vi

Get the maximum temperature that can be measured by a thermocouple input. This depends on the type of thermocouple attached, as well as the ambient temperature



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



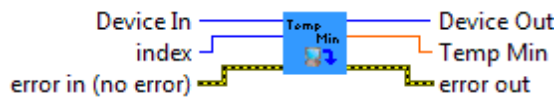
Temp Max

The maximum temperature

5.17.13 TempGetTemperatureMin.vi

TempGetTemperatureMin.vi

Get the minimum temperature that can be measured by a thermocouple input. This depends on the type of thermocouple attached, as well as the ambient temperature



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

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that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Temp Min

The minimum temperature

5.17.14 TempGetThermocoupleType.vi

TempGetThermocoupleType.vi

Get the type of thermocouple set to be at a thermocouple input. By default this is K-Type (1).



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Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or



warning.

index

The input index

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

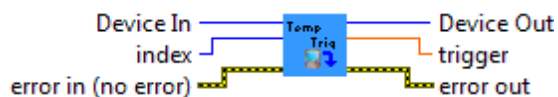
ThermocoupleType

The thermocouple type. This is an enum. Please refer to [Phidgets Constants](#) -> [ThermocoupleType](#)

5.17.15 TempGetTrigger.vi

TempGetTrigger.vi

Get the change trigger for a thermocouple input



**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source describes the origin of the error or warning.



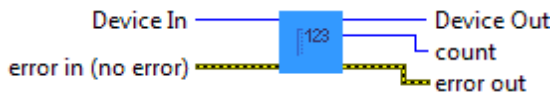
trigger

The change trigger

5.17.16 TempInputCount.vi

TempInputCount.vi

Get the number of thermocouple inputs supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



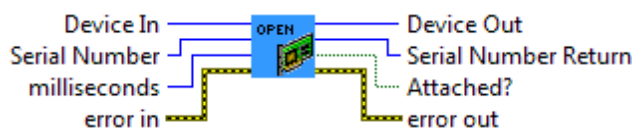
count

The thermocouple input count

5.17.17 TempOpen.vi

TempOpen.vi

Open a Phidget Temperature Sensor



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # Identification.

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

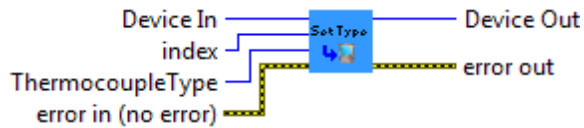
Device Out

Same as Device In

5.17.18 TempSetThermocoupleType.vi

TempSetThermocoupleType.vi

Set the type of thermocouple plugged into a thermocouple input. By default this is K-Type



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Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

index

The input index

ThermocoupleType

The thermocouple type. This is an enum. Please refer to [Phidgets Constants -> ThermocoupleType](#)

Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

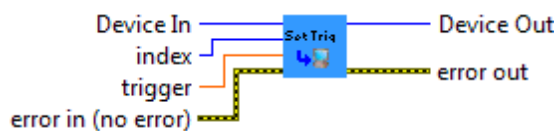
source

source describes the origin of the error or warning.

5.17.19 TempSetTrigger.vi

TempSetTrigger.vi

Set the change trigger for a thermocouple input



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



trigger

The change trigger

index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

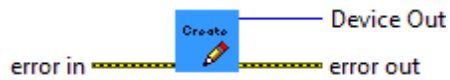


5.18 TextLCD

5.18.1 TextCreate.vi

TextCreate.vi

Create a Phidget TextLCD handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

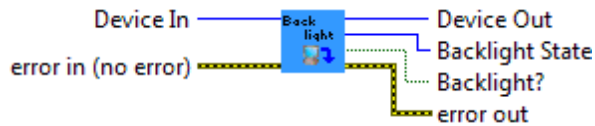
Device Out

Device # identification

5.18.2 TextGetBacklightState.vi

TextGetBacklightState.vi

Get the state of the backlight



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Backlight State

The backlight state. Possible values are 0 for False, 1 for True and others for undefined



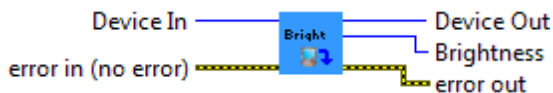
Backlight?

The backlight state (Boolean type).

5.18.3 TextGetBrightness.vi

TextGetBrightness.vi

Get the brightness of the backlight. Not supported on all TextLCDs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



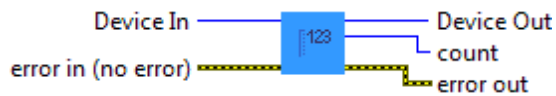
Brightness

The backlight brightness (0-255)

5.18.4 TextGetColumnCount.vi

TextGetColumnCount.vi

Get the number of columns per supported by this display



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

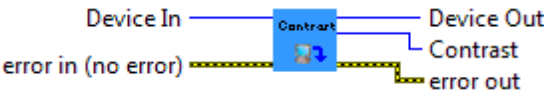
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5.18.5 TextGetContrast.vi

TextGetContrast.vi

Get the last set contrast value



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code is the error or warning code.

source

source describes the origin of the error or warning.

count

The column count

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



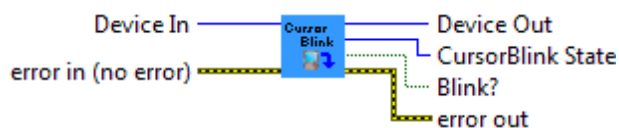
Contrast

The contrast (0-255)

5.18.6 TextGetCursorBlinkState.vi

TextGetCursorBlinkState.vi

Get the cursor blink state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



CursorBlink State

The cursor blink state. Possible values are 0 for False, 1 for True and others for undefined





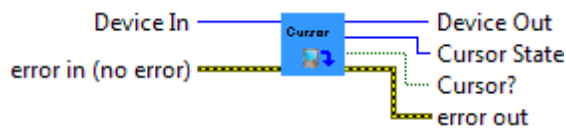
Blink?

The cursor blink state (Boolean type)

5.18.7 TextGetCursorState.vi

TextGetCursorState.vi

Get the cursor visible state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Cursor State

The state of the cursor. Possible values are 0 for False, 1 for True and others for undefined

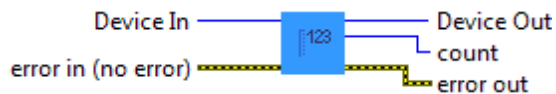
Cursor?

The state of the cursor (Boolean type)

5.18.8 TextGetRowCount.vi

TextGetRowCount.vi

Get the number of rows supported by this display



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

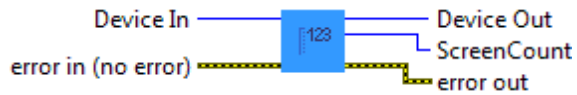
source describes the origin of the error or warning.

count

The row count

5.18.9 TextGetScreenCount.vi**TextGetScreenCount.vi**

Gets the number of screens supported by the TextLCD



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.

ScreenCount

The number of screens

5.18.10 TextGetScreenIndex.vi

TextGetScreenIndex.vi

Gets the screen index



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



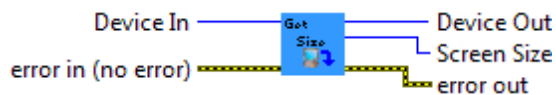
ScreenIndex

The screen index

5.18.11 TextGetScreenSize.vi

TextGetScreenSize.vi

Gets the screen size for the active TextLCD display.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this



information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

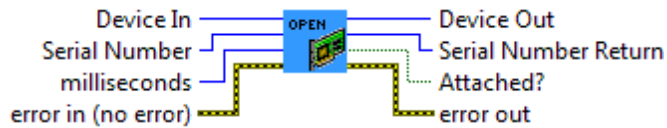
Screen Size

The screen size

5.18.12 TextOpen.vi

TextOpen.vi

Open a Phidget TextLCD


Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device In

Device # identification. This function will create a new device identification if it's 0 or invalid

Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE is the device successfully



attached, or FALSE otherwise.

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source string describes the origin of the error or warning.

Device Out

Same as Device In

5.18.13 TextReset.vi

TextReset.vi

Re-initializes the LCD Display, clearing it, etc.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

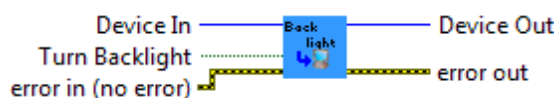
source

source describes the origin of the error or warning.

5.18.14 TextSetBacklightState.vi

TextSetBacklightState.vi

Set the state of the backlight





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Turn Backlight

Set the backlight state



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.18.15 TextSetBrightness.vi

TextSetBrightness.vi

Set the brightness of the backlight. Not supported on all TextLCDs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Brightness

The backlight brightness (0-255).



Device Out

Same as Device In



error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

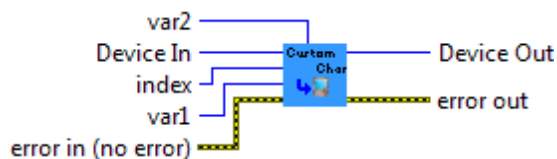
source

source describes the origin of the error or warning.

5.18.16 TextSetCharacter.vi

TextSetCharacter.vi

Set a custom character. See the product manual for more information



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.



index

The custom character index (8-15)



var1

The first part of the custom character



var2

The second part of the custom character



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source

source describes the origin of the error or warning.



5.18.17 TextSetContrast.vi

TextSetContrast.vi

Set the last set contrast value

**Device In**

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Contrast

The contrast (0-255).

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.18.18 TextSetCursorBlinkState.vi

TextSetCursorBlinkState.vi

Set the cursor blink state



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

Cursor Blink

Set the cursor blink state

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

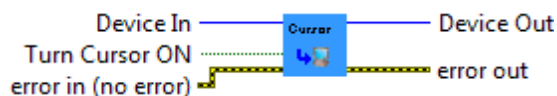
source

source describes the origin of the error or warning.

5.18.19 TextSetCursorState.vi

TextSetCursorState.vi

Set the cursor visible state



Device In

Device # Identification.

error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

Turn Cursor ON

Set the state of the cursor

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

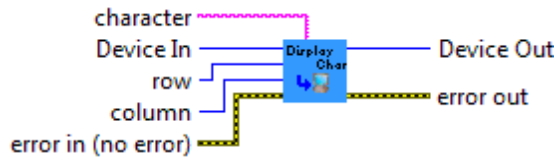
source

source describes the origin of the error or warning.

5.18.20 TextSetDisplayChar.vi

TextSetDisplayChar.vi

Set a single character on the display


Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

row

The row index

column

The column index

character

The character to display

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

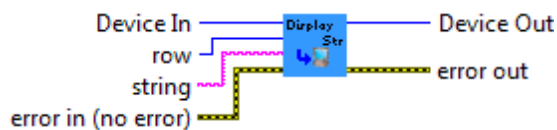
source describes the origin of the error or warning.



5.18.21 TextSetDisplayString.vi

TextSetDisplayString.vi

Set a row on the display



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status





status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

row

The row index

string

The string to display. Make sure this is not longer than TextGetColumnCount

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.18.22 TextSetScreenIndex.vi

TextSetScreenIndex.vi

Choose the screen to modify



132

132

TF

132

abc

132

132

132

Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

ScreenIndex

The index of the screen being selected

Device Out

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other



VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source

source describes the origin of the error or warning.

5.18.23 TextSetScreenSize.vi

TextSetScreenSize.vi

Set the size of the screen



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

source



source describes the origin of the error or warning.

ScreenSize

The screen size



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source














source describes the origin of the error or warning.

6 Phidgets Constants

This section describes each of the Phidgets constants used by different Phidgets.

6.1 CodeInfo

The PhidgetIR CodeInfo structure contains all information needed to transmit a code, apart from the actual code data. Some values can be set to null to select defaults. See the product manual for more information.

Data Type	Item	Comments
	bitCount	Number of bits in the code.
	encoding	Encoding used to encode the data. This is an enum. Please refer to Phidgets Constant -> IREncoding
	length	Constant or Variable length encoding. This is an enum. Please refer to Phidgets Constant -> IRLength
	gap	Gap time in us.
	trail	Trail time in us - can be 0 for none.
	header [2]	Header pulse and space - can be 0 for none.
	one [2]	Pulse and Space times to represent a '1' bit, in us.
	zero [2]	Pulse and Space times to represent a '0' bit, in us.
	repeat [26]	A series of pulse and space times to represent the repeat code. Start and end with pulses and null terminate. Set to 0 for none.
	min_repeat	Minimum number of times to repeat a code on transmit.
	toggle_mask [16]	Bit toggles, which are applied to the code after each transmit.
	carrierFrequency	Carrier frequency in Hz - defaults to 38kHz.
	dutyCycle	Duty Cycle in percent (10-50). Defaults to 33.

6.2 Frequency Filter Mode

An enum value with the following definition:

Value	Comments
ZERO_CROSSING = 1	Phidget responds to Zero Crossing
LOGIC_LEVEL = 2	Phidget responds to logic levels

6.3 IREncoding

The PhidgetIR supports these data encodings:

Value	Comments
PHIDGET_IR_ENCODING_UNKNOWN = 1,	Unknown - the default value
PHIDGET_IR_ENCODING_SPACE = 2,	Space encoding, or Pulse Distance Modulation
PHIDGET_IR_ENCODING_PULSE = 3,	Pulse encoding, or Pulse Width Modulation
PHIDGET_IR_ENCODING_BIPHASE = 4,	Bi-Phase, or Manchester encoding
PHIDGET_IR_ENCODING_RC5 = 5,	RC5 - a type of Bi-Phase encoding
PHIDGET_IR_ENCODING_RC6 = 6,	RC6 - a type of Bi-Phase encoding
Others	Undefined

6.4 IRLength

The PhidgetIR supports these encoding lengths:

Value	Comments
PHIDGET_IR_LENGTH_UNKNOWN = 1,	Unknown - the default value
PHIDGET_IR_LENGTH_CONSTANT = 2,	Constant - the bitstream + gap length is constant
PHIDGET_IR_LENGTH_VARIABLE = 3,	Variable - the bitstream has a variable length with a constant gap
Others	Undefined

6.5 ServoType

An enum value with the following definition:

Value	Comments
PHIDGET_SERVO_DEFAULT = 1,	Default - This is what the servo API been historically used, originally based on the Futaba FP-S148
PHIDGET_SERVO_RAW_us_MODE = 2,	Raw us mode - all position, velocity, acceleration functions are specified in microseconds rather than degrees
PHIDGET_SERVO_HITEC_HS322HD = 3,	HiTec HS-322HD Standard Servo
PHIDGET_SERVO_HITEC_HS5245MG = 4,	HiTec HS-5245MG Digital Mini Servo
PHIDGET_SERVO_HITEC_805BB = 5,	HiTec HS-805BB Mega Quarter Scale Servo
PHIDGET_SERVO_HITEC_HS422 = 6,	HiTec HS-422 Standard Servo

PHIDGET_SERVO_TOWERPRO_MG90 = 7,	Tower Pro MG90 Micro Servo
PHIDGET_SERVO_HITEC_HSR1425CR = 8,	HiTec HSR-1425CR Continuous Rotation Servo
PHIDGET_SERVO_HITEC_HS785HB = 9,	HiTec HS-785HB Sail Winch Servo
PHIDGET_SERVO_HITEC_HS485HB = 10,	HiTec HS-485HB Deluxe Servo
PHIDGET_SERVO_HITEC_HS645MG = 11,	HiTec HS-645MG Ultra Torque Servo
PHIDGET_SERVO_HITEC_815BB = 12,	HiTec HS-815BB Mega Sail Servo
PHIDGET_SERVO_FIRGELLI_L12_30_5006 R = 13,	Firgelli L12 Linear Actuator 30mm 50:1
PHIDGET_SERVO_FIRGELLI_L12_50_10006 R = 14,	Firgelli L12 Linear Actuator 50mm 100:1
PHIDGET_SERVO_FIRGELLI_L12_50_21006 R = 15,	Firgelli L12 Linear Actuator 50mm 210:1
PHIDGET_SERVO_FIRGELLI_L12_100_5006 R = 16,	Firgelli L12 Linear Actuator 100mm 50:1
PHIDGET_SERVO_FIRGELLI_L12_100_10006 R = 17,	Firgelli L12 Linear Actuator 100mm 100:1
PHIDGET_SERVO_USER_DEFINED = others	Undefined

6.6 ThermocoupleType

An enum value with the following definition:

Value	Comments
PHIDGET_TEMPERATURE_SENSOR_K_TYPE = 1,	K-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_J_TYPE = 2,	J-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_E_TYPE = 3,	E-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_T	T-Type thermocouple

TYPE = 4,	
PHIDGET_SERVO_USER_DEFINED = others	Undefined

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