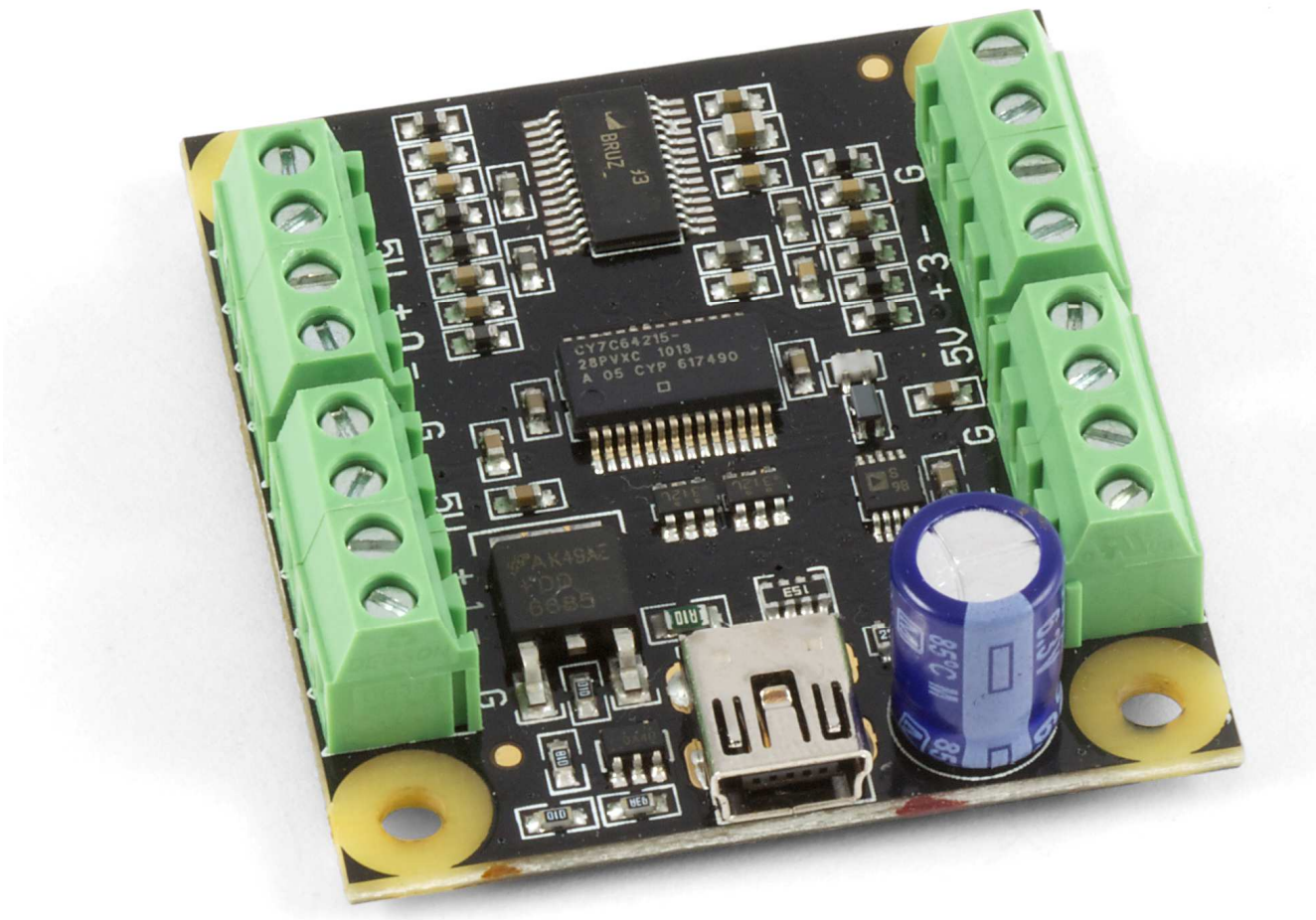

Bridge PhidGet 1046 – 4 Input

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1046_0 - PhidgetBridge 4-Input

Quantity	Price
1	**$90.00**
5	$86.40
10	$83.70
25	$81.00
50	$76.50

In Stock
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RoHS compliant

Product Features

The PhidgetBridge is the interface board needed to measure the output from a load cell. You can connect up to four load cells, strain gauges, or wheatstone bridge sensors.

Product Description

The PhidgetBridge lets you connect up to 4 un-amplified Wheatstone bridges, such as:

- strain gauges
- compression load cells
- pressure sensors/Barometers
- piezoresistive accelerometers
- Magnetoresistive sensors (Compasses)

The data rate and gain values can be configured in software.

Resources

- User Guide
- How to connect RTDs to the 1046
- Mechanical Drawings
- Download 3D Step File
- Programming Resources

Product Specifications

Board

API Object Name	Bridge
Number of Bridge Inputs	4
Bridge Data Rate Min	8 ms
Bridge Data Rate Max	1000 ms
Bridge Input Current Max	± 3 nA
Differential Voltage Resolution	24 bit

Electrical Properties

USB Voltage Min	4.5 V DC
USB Voltage Max	5.3 V DC
USB Speed	Full Speed
Current Consumption Min	35 mA
Current Consumption Max	500 mA
Available External Current	465 mA
Input Voltage Limit Min	Ground + 0.25V DC
Input Voltage Limit Max	5V Supply - 0.25V DC

Physical Properties

Recommended Wire Size	16 - 26 AWG
Operating Temperature Min	0 °C
Operating Temperature Max	70 °C

Enclosure

You can protect your board by purchasing the 3854 - Plastic Shell Enclosure for the 1046 or the 3808 - Acrylic Enclosure for the 1046 .

Code Samples For This Product

- AppleScript
- C# (Windows)
- C/C++ (MS Visual C/C++)
- C/C++ (Standard C/C++)
- Cocoa
- Flash AS3
- Java
- LabVIEW (64bit; Windows Only)
- LabVIEW (32bit; Windows/Mac OSX/Linux)
- Max/MSP (Mac OSX)
- Max/MSP (Windows)
- Python
- Ruby
- Visual Basic .NET
- Visual Basic 6.0

Related Products

Have a look at our assortment of load cells; we carry micro load cells, button load cells, and an S-Type load cell. We also have individual strain gauges available, for applications where the structure being tested is already built.

- Bridge-Type Load Cells and Strain Gauges

You can also connect RTDs (Resistive Thermal Devices) to the 1046 using the:

- 3175 - RTD Resistor Kit

Comes Packaged with

- A 3018 - Mini-USB Cable 180cm
- A Hardware mounting kit (4 nuts and bolts (M3), 4 plastic spacers)