

PhidgetBridge 4-Input



Note: The 1046_0B is identical to the 1046_0, except that it comes pre-assembled in a plastic shell enclosure and you have the option of which length of USB cable you want to include.

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.

Product Specifications

Board

Controlled By	USB (Mini-USB)
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	B $\pm$ 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 B°C
Operating Temperature Max	70 B°C

*The minimum data rate is 8ms though the board has a maximum sample rate of 122 samples a second (slightly less than the 125 an 8ms rate would have you

believe).