

# PhidgetAnalog 4-Output



**Note:** The 1002\_0B is identical to the 1002\_0, except that you have the option of whether you want to include the USB cable.

The PhidgetAnalog 4-Output Produces a voltage over -10V to +10V at a maximum of  $\pm 20\text{mA}$ . If this current is exceeded an error will be thrown to notify that the voltage may have dropped below the setpoint. The voltage is produced with 12 bit resolution (4.8mV).

The board is not isolated and all 4 channels share a common ground.

All the power is supplied by via USB.

\* The maximum output frequency is dependent on the speed of your system.

## **Comes Packaged with**

- A Hardware mounting kit (4 nuts and bolts (M3), 4 plastic spacers)

## Product Specifications

### Board Properties

|                            |                     |
|----------------------------|---------------------|
| Controlled By              | USB (Mini-USB)      |
| API Object Name            | VoltageOutput       |
| USB Voltage Min            | 4.6 V DC            |
| USB Voltage Max            | 5.5 V DC            |
| Current Consumption Min    | 55 mA               |
| Current Consumption Max    | 300 mA              |
| Available External Current | (per channel) 20 mA |
| Recommended Wire Size      | 16 – 26 AWG         |
| USB Speed                  | Full Speed          |
| Operating Temperature Min  | 0 B°C               |
| Operating Temperature Max  | 70 B°C              |

### Voltage Outputs

|                                     |                    |
|-------------------------------------|--------------------|
| Number of Voltage Outputs           | 4                  |
| Output Impedance (Channel Enabled)  | 500 m0©            |
| Output Impedance (Channel Disabled) | 4 k0©              |
| Voltage Output Max                  | B± 10 V DC         |
| Output Voltage Resolution           | (12 bit) 4.8 mV DC |
| Capacitive Load Stability           | 4 nF               |
| Frequency Max                       | Variable*          |

\* The maximum output frequency is dependent on the speed of your system.