Isolated 12-bit Voltage Output Phidget

When you need to generate a voltage between -10 and +10 volts, this board will do the job. With a resolution of 4.9mV (12-bit) and current as high as 5mA, it is designed to interface with devices that are controlled by an analog voltage signal. To use it, simply plug it into a **VINT port** and control the voltage with your program (See the “Compatible Products” tab for a list of VINT Hubs). It will also launch an event when the actual output voltage varies from the chosen voltage (for example, when the attached device is drawing too much current). This Phidget is factory calibrated to ensure output accuracy.

Selectable Voltage Range

Need higher resolution? The output on this Phidget also has a 0 to 5V terminal that can be used instead of the ?±10 terminal, yielding a resolution of 1.2mV. Both terminals are controlled as the same object in software; they cannot be controlled separately.

Isolated for Stability

This board is electrically isolated from input to output, protecting your system fom instability caused by unintentional ground loops. If you need update speed more than isolation or voltage range, have a look at the VINT 12-bit Voltage Output 4V.

Product Specifications

Board Properties	
Controlled By	VINT
Electrical Properties	
Current Consumption Min	35 mA
Current Consumption Max	85 mA
Voltage Outputs	
Number of Voltage Outputs	1
Current Sourcing	varies*
Current Sinking	varies*
Voltage Outputs (?±10V Mode)	
Voltage Output Max	?± 10 V DC
Output Voltage Resolution	(12-bit) 4.9 mV DC
Voltage Output Noise	?± 500 ?¼V DC
Voltage Outputs (5V Mode)	
Voltage Output Max	5 V DC
Output Voltage Resolution	(12-bit) 1.2 mV DC
Voltage Output Noise	?± 20 ?¼V DC
Physical Properties	
Recommended Wire Size	16 – 26 AWG
Operating Temperature Min	-40 ?°C
Operating Temperature Max	85 ?°C

*** Current sourcing and sinking capability varies based on selected output voltage. Please visit the technical section of the User Guide for details.**