Isolated 16-bit Voltage Output Phidget



Product Description

Generating extremely precise voltages is easy with this Phidgets voltage output module. It is designed to interface with devices that are controlled by an analog voltage signal. Simply plug it in to a VINT port, and you'll be able to set a voltage in your program between -10 and +10 volts with 16 bit resolution ($300\mu V$) at a current of up to 5mA (See the Connection & Compatibility tab for a list of VINT Hubs). If the attached device draws more than 5mA and the voltage begins to drop below the value specified, a warning event will be launched so your program can take an appropriate action. 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 $76\mu V$. Both terminals are controlled as the same object in software and cannot be used at the same time.

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 <u>VINT</u> 12-bit Voltage Output 4V.



Current Consumption Min 35 mA

Current Consumption Max 85 mA

Voltage Outputs

Number of Voltage Outputs

1

Current Sourcing varies*

Current Sinking varies*

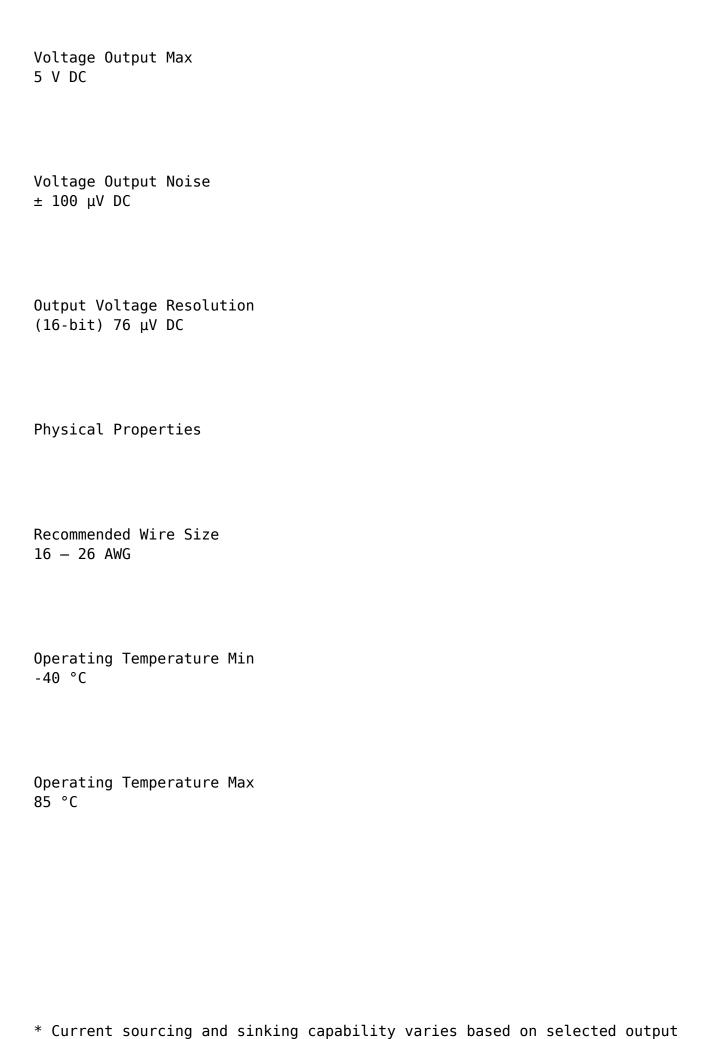
Voltage Outputs (±10V Mode)

Voltage Output Max ± 10 V DC

Output Voltage Resolution (16-bit) 300 μV DC

Voltage Output Noise \pm 200 μV DC

Voltage Outputs (5V Mode)



voltage. Please visit the technical section of the User Guide for details.