

8x Voltage Input Phidget



For applications where you just need a lot of sensors, the 8x Voltage Input Phidget adds eight 0-5V analog inputs to your **VINT Hub**. (See the “Compatible Products” tab for a list of Hubs) Each input can be used in one of two modes: VoltageInput or VoltageRatioInput. With VoltageInput mode, you simply measure a voltage value from 0 to 5V. This mode is useful for interfacing 5V sensors and for monitoring small voltages. In VoltageRatioInput mode, you can read ratiometric sensors like potentiometers and voltage dividers, whose output voltage depend on their input voltage. The return voltage is expressed as a ratio of the return voltage to the supply voltage from 0.0 to 1.0.

Features

You can change the sample rate of each input separately, to speeds of up to 50 samples per second. You don’t need to worry about messy power cables either; Power from the attached VINT Hub is distributed to each input’s sensor. Conversion from sensor voltage into the units being measured is

handled by our libraries when using sensors from Phidgets. Just set the `SensorType` property and use the `SensorChange` event and the conversion formula will be automatically applied to all incoming data. See the API tab for more details.

Other Options

If you're looking to precisely measure a smaller voltage or need power isolation between your VINT Hub and your voltage sensor, take a look at our isolated voltage sensor boards on the "Other Voltage Inputs" tab.

Product Specifications

Board Properties

Controlled By VINT

Electrical Properties

Current Consumption Min 1 mA

Current Consumption Max * 500 mA

Voltage Inputs

Measurement Error Max 0.2 %

Voltage Input Resolution 12 bit

Input Voltage Max (DC) 5 V DC

Input Voltage Min (DC) 0 V DC

Sensor Input Impedance 324 k Ω

Number of Voltage Inputs 8

Sampling Interval Max 60 s/sample

Sampling Interval Min 20 ms/sample

Physical Properties

Operating Temperature Min -40 $^{\circ}\text{C}$

Operating Temperature Max 85 $^{\circ}\text{C}$

* Varies depending on number of attached sensors.