PhidgetInterfaceKit 2/2/2

Product Description

Designed for customers who only need a couple of Analog Inputs, Digital Inputs or Digital Outputs, the dongle size PhidgetInterfaceKit 2/2/2 is ideal for projects where space is critical.

To keep the board small, we have removed the connectors from the board and brought them out through a 12-Wire cable.

Analog Inputs

The Analog Inputs are used to measure continuous quantities, such as temperature, humidity, position, pressure, etc. Phidgets offers a wide variety of sensors that can be plugged directly into the 1011’s female cable connector using the cable included with the sensor.

Sampling rates can be set at 1ms, 2ms, 4ms, 8ms and multiple of 8ms up to 1000ms.

Digital Inputs

The Digital Inputs have a Digital Input Hardware Filter to eliminate false triggering from electrical noise. They can be used to convey the state of devices such as push buttons, limit switches, relays, and logic levels.

Digital Outputs

The Digital Outputs can be used to drive LEDs, solid state relays (such as the 3052 SSR Relay Board), transistors; in fact, anything that will accept a CMOS signal.

Product Specifications

Board

USB Voltage Min	4.6 V DC
USB Voltage Max	5.5 V DC
Current Consumption Min	20 mA
Current Consumption Max	500 mA
Available External Current	480 mA
USB Speed	Full Speed
Operating Temperature Min	0 °C
Operating Temperature Max	70 °C

Analog Inputs

Number of Analog Inputs	2
Analog Input Resolution	10 bit
Input Impedance	900 k?
Analog Input Voltage Min	0 V DC
Analog Input Voltage Max	5 V DC
5V Reference Error Max	0.5 %
Analog Input Update Rate Min	1 samples/s
Analog Input Update Rate Max	1000 samples/s
Analog Input Update Rate Max (WebService)	62.5 samples/s

Digital Inputs

Number of Digital Inputs	2
Pull-up Resistance	15 k?
Low Voltage Max (True)	800 mV DC
High Voltage Min (False)	2.1 V DC
Digital Input Voltage Max	± 15 V DC
Digital Input Update Rate	125 samples/s
Trigger Length Min	3 ms

Digital Outputs

Number of Digital Outputs	2
Series Resistance	300 ?
Digital Output Current Max	16 mA
Digital Output Voltage Min	0 V DC
Digital Output Voltage Max	5 V DC

Comes packaged with

- A 3013 – 12-Wire Custom Cable

Wire Assembly

Wires 1,2,3 and wires 7,8,9 end with a female connector designed to take the Phidget sensor cable. The other wires are loose.

Related Products

If your cable assembly gets damaged, just get a replacement cable:

- 3013 – PhidgetInterfaceKit 2/2/2 replacement cable