[4x Thermocouple Phidget](#)

With this Phidget, you can connect up to four thermocouples to a single **VINT port**, making it ideal for temperature testing and comparison (See the "Compatible Products" tab for a list of VINT Hubs). You can use a J, K, E or T type thermocouple; set the appropriate type in software and it will convert sensor data into degrees Celsius automatically. If you have other thermocouple types, you can open the channel in VoltageInput mode and convert to temperature manually according to your thermocouple's datasheet.

Long Wires

One of the major advantages of using a thermocouple is the capability of using long wires. Thermocouples have been known to work with segments as long as 100m, while USB and other sensors suffer from voltage drops after 5 or 10m. You can find thermocouple extension wire on the Compatible Products tab. Please note that the longer you make your thermocouple wires, the more likely it is that you'll experience noise and interference. For more information,

see our document on [Addressing Electromagnetic Interference](#).

Product Specifications

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Board

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Controlled By	VINT
Number of Thermocouple Inputs	4

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Thermocouple Input

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Thermocouple Error Max (K-Type)	± 2 °C
Thermocouple Temperature Resolution (K-Type)	0.04 °C
Sampling Interval Min	100 ms/sample
Sampling Interval Max	60 s/sample
Thermocouple Voltage Resolution	1 $\frac{1}{4}$V DC

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Onboard Temperature Sensor

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Temperature Error Max	± 1 °C
Sampling Interval Max	60 s/sample
Sampling Interval Min	500 ms/sample
Temperature Error Typical (At 25?°C)	± 0.25 °C
Temperature Resolution	0.063 °C
Temperature Max	85 °C
Temperature Min	-40 °C

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Electrical Properties

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Current Consumption Min	10 $\frac{1}{4}$A
Current Consumption Max	5 mA

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Physical Properties

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Recommended Wire Size	16 — 26 AWG
Operating Temperature Min	-40 °C
Operating Temperature Max	85 °C