

The Yocto-Thermistor-C is a USB interface for NTC and PTC thermistors. It can measure up to six temperature points. Each of the six channels can be configured independently thanks to tables or reference temperatures and  $\beta$  coefficients. The Yocto-Thermistor-C is an insulated device: there is an electric insulation between the sensor part and the USB part.

The Yocto-Thermistor-C is shipped with six tiny NTC thermistors connected to a 10 centimeter wire. You can extend them with any regular electric wire.

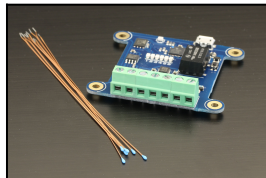
All six channels share one contact allowing the use of a bigger terminal and bigger wire (26-16 AWG). If you wish to connect the thermistors in an independent manner, choose the Yocto-MaxiThermistor.

The Yocto-Thermistor-C can also be used as a multichannel ohm-meter.

### Specifications

|   |                                |
|---|--------------------------------|
| Product ID  | THRMSTR1                       |
| USB connector   | micro-B                        |
| Width   | 58 mm                          |
| Length  | 50 mm                          |
| Weight  | 17 g                           |
| Channels  | 6                              |
| Refresh rate  | 1 Hz                           |
| Measuring range   | 100 $\Omega$ ...500K $\Omega$  |
| Accuracy ( $\Omega$ ) between 1K $\Omega$ ...10K $\Omega$ | $\sim$ 0.1 %                   |
| Accuracy, typical ( $\Omega$ )                            | 1 %                            |
| IEC protection class                                      | class III                      |
| USB insulation, dielectric strength (1 min.)              | 3 1.5                          |
| Normal operating temperature                              | 5...40 °C                      |
| Extended operating temperature <sup>‡</sup>               | -30...85 °C                    |
| RoHS compliance   | RoHS III (2011/65/UE+2015/863) |
| USB Vendor ID   | 0x24E0                         |
| USB Device ID   | 0x004D                         |
| Suggested enclosure                                       | YoctoBox-MaxiO-Transp          |
| Harmonized tariff code                                    | 8542.3190                      |
| Made in   | Switzerland                    |

<sup>‡</sup> The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: [www.yoctopuce.com/EN/products/yocto-thermistor-c](http://www.yoctopuce.com/EN/products/yocto-thermistor-c)