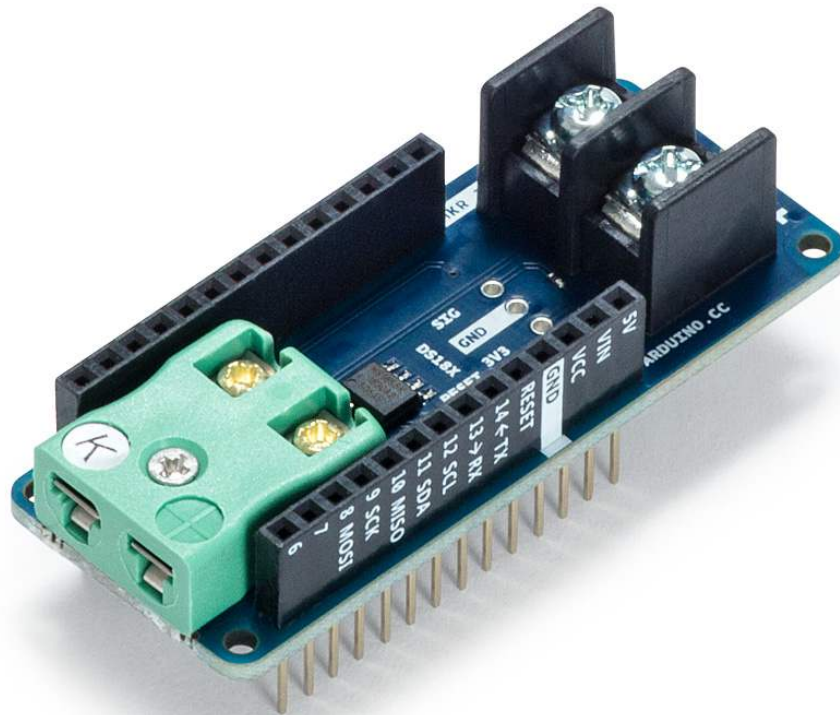




ARDUINO MKR THERM SHIELD

Code: ASX00012

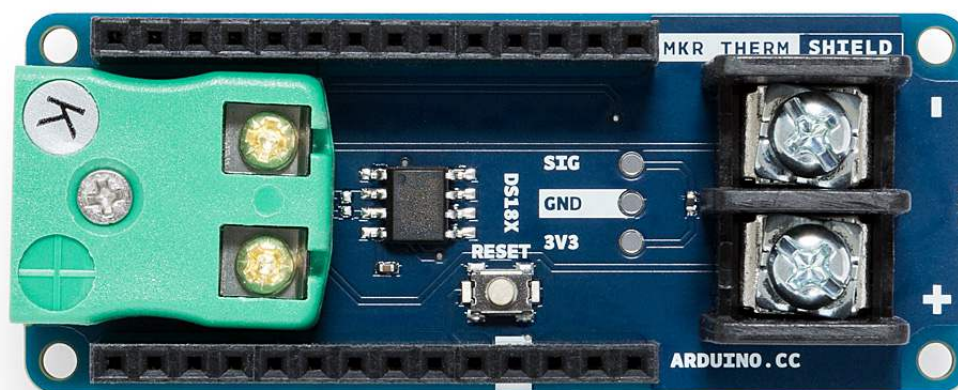
Your solution for precise and extended range temperature measurements.



The MKR THERM Shield allows a board of the MKR family to acquire temperatures from a thermocouple of type K and a DS18Bxx digital one wire sensor. The Thermocouple is a kind of temperature sensor that offers high accuracy and a wide range of measured temperatures. Its analog nature requires specific interfacing and this shield relies on the MAX31855 thermocouple digital interface.

The two connectors of the MKR THERM Shield allow the usage of Type K thermocouples with or without a plug attached to the metal wires.

The MKR THERM Shield has its own library to read the temperature measured by the thermocouple. You may find further details and a usage example in our Getting Started page.



Connectors	K TYPE DALLAS DS18S20 (to solder) Screw terminal block
Input Voltage	3.3V
Operating Voltage	3.3V
Operating Temperature	-200°C + 700°C
Communication	SPI/1Wire
IC	MAX31855
Length	61 mm
Width	25 mm
Weight	32 gr.



Schematics

The Arduino MKR Therm Shield is open-source hardware! You can build your own board using the following files:

[EAGLE FILES IN .ZIP](#)

[SCHEMATICS IN .PDF](#)

[Maxim MAX31855 Datasheet](#)

www.arduino.cc