

INDUSTRIAL PRODUCT DATASHEET

Grove - I2C High Accuracy Temperature Sensor - MCP9808

High-accuracy temperature sensor with $\pm 0.5^{\circ}\text{C}$ precision, selectable resolution, and easy microcontroller integration via Grove I2C.

SKU

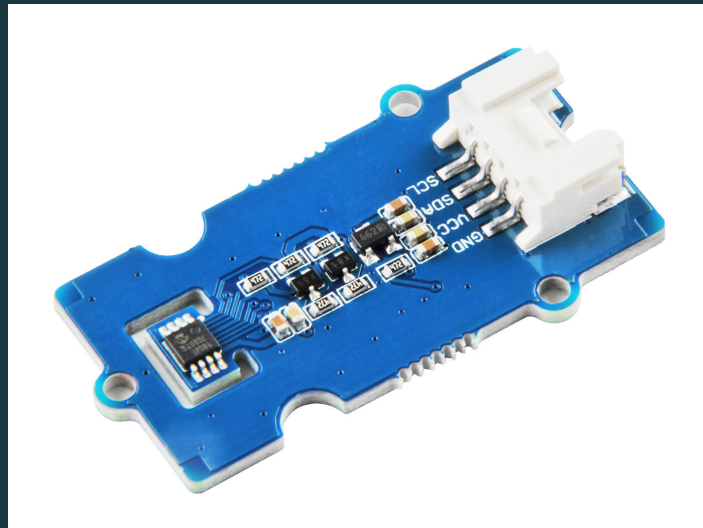
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UPDATED

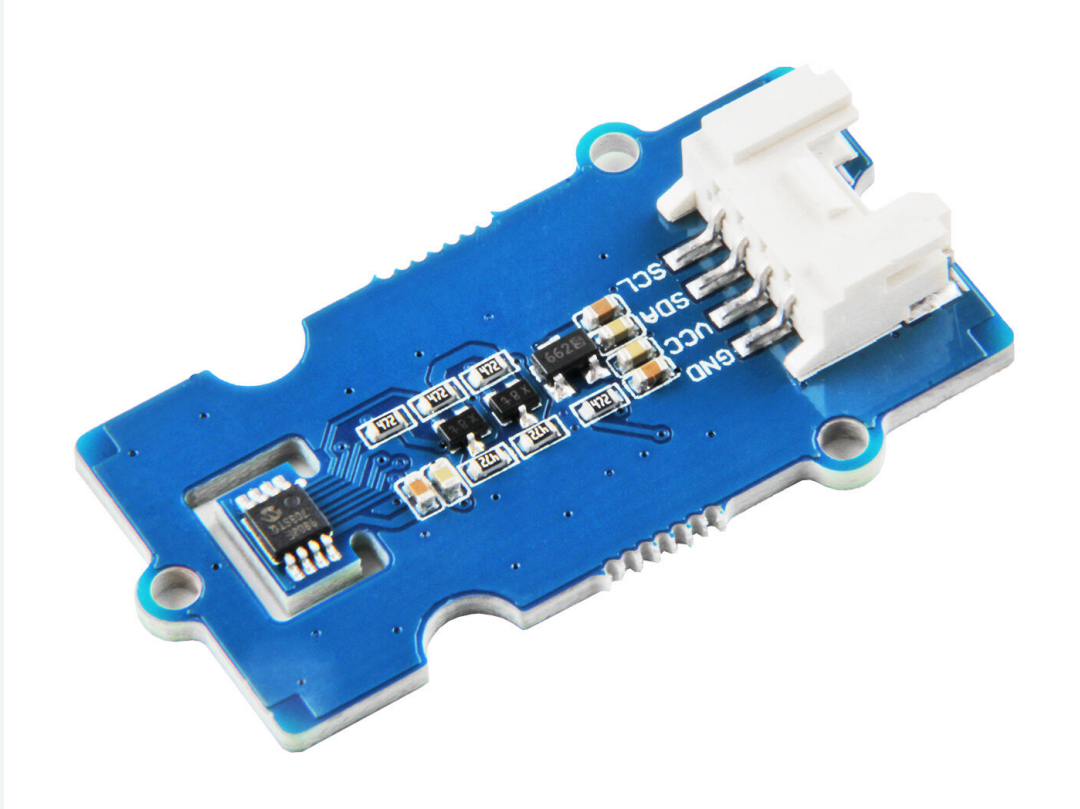
2026-04-15 08:00:46

PRICE

\$5.20(Excl. VAT)



Overview

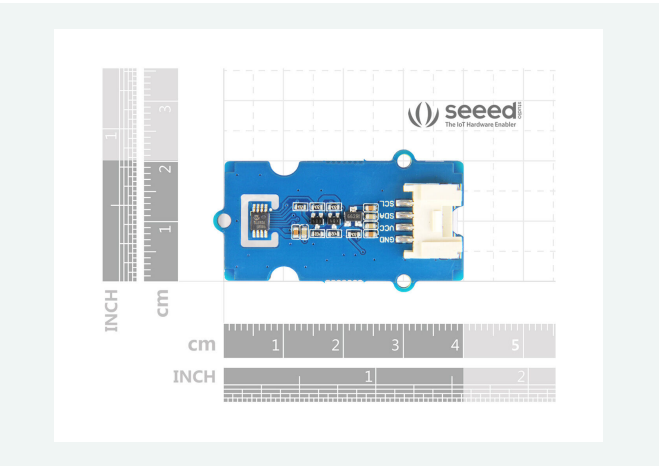
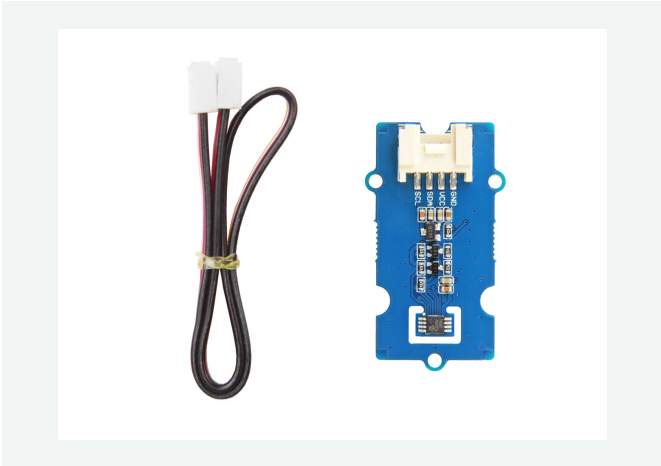
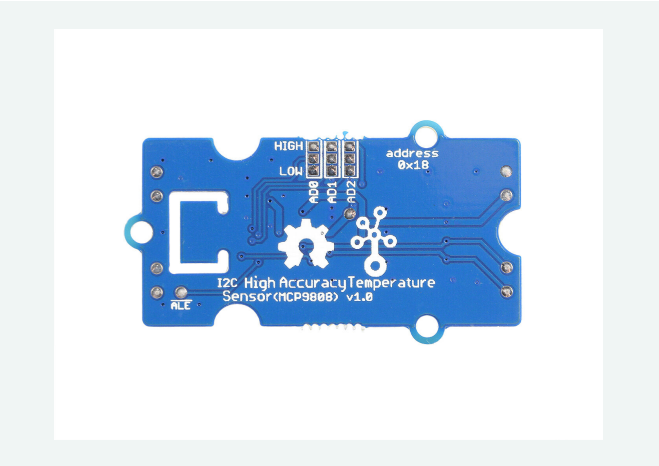
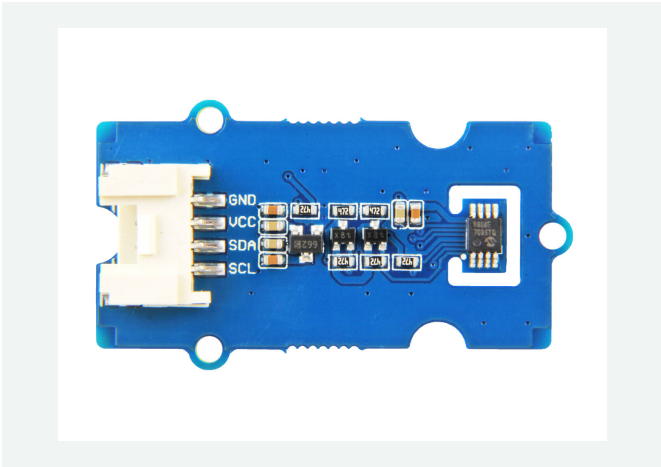
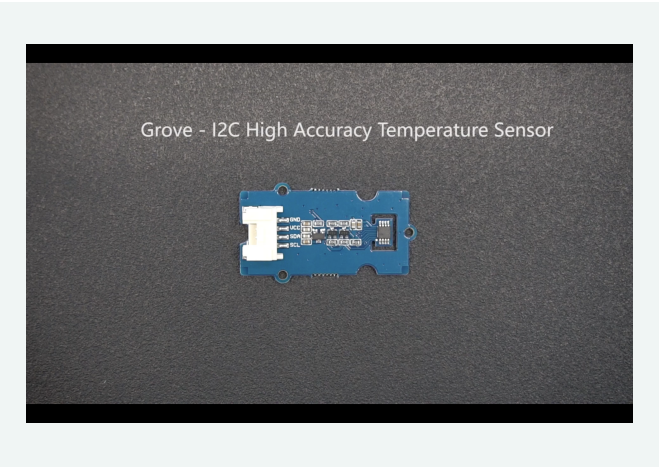


The Grove - I2C High Accuracy Temperature Sensor (MCP9808) offers $\pm 0.5^{\circ}\text{C}$ maximum accuracy from -20°C to 100°C with user-selectable resolution down to $+0.0625^{\circ}\text{C}$. It features user-programmable registers for modes like low-power or shutdown, and provides simple digital reads via a Grove compatible plug-and-play interface.

Key Features

- **High accuracy & wide range of temperature measurement:** $\pm 0.5^{\circ}\text{C}$ (maximum) from -20°C to 100°C
- **User-selectable measurement resolution:** Available with the accuracy of $+0.5^{\circ}\text{C}$, $+0.25^{\circ}\text{C}$, $+0.125^{\circ}\text{C}$, and $+0.0625^{\circ}\text{C}$ provide flexibility for your temperature sensing applications.
- **User-programmable registers:** allow for user-selectable settings (E.g. Low-power or Shutdown modes)
- **Simple Reads:** Easily convert the temperature data to digital for easy microcontroller readings
- **Grove compatible interface:** The product ensures "Plug and Play" and could be versatile for various applications of Grove

Product Gallery



Specification

Dimensions	40mm x20mm x7mm
Weight	G.W 9.2g
Battery	Exclude

Operating Voltage	3.3V/5V
Operating Range	-40°C to +125°C
Digital Interface	I2C standard 400 kHz
I2C Address	0x18(default)/ 0x18~0x1F(optional)

Part List

Grove - I2C High Accuracy Temperature Sensor(MCP9808)	1
Grove Cable	1

Compliance & Logistics



HSCODE	9025900090
USHSCODE	9025900600
UPC	841454120780
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-I2C-High-Accuracy-Temperature-Sensor-MCP9808.html>
- [Grove - I2C High Accuracy Temperature Sensor\(MCP9808\) Eagle files](#)
- [Seeed MCP9808 Library](#)
- [Datasheet of MCP9808](#)
- [Datasheet of 2N7002A](#)
- [AN10441](#)

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