

INDUSTRIAL PRODUCT DATASHEET

Grove - Temperature & Humidity Sensor(SHT41), I2C, $\pm 1.8\%$ / max. $\pm 2.5\%$ RH and $\pm 0.2^{\circ}\text{C}$ Temp, ideal for Climate Monitoring, Smart Home

High-accuracy Grove temperature and humidity sensor (SHT41) with I2C interface, designed for reliable performance in condensing environments and ideal for climate monitoring and smart home applications.

SKU

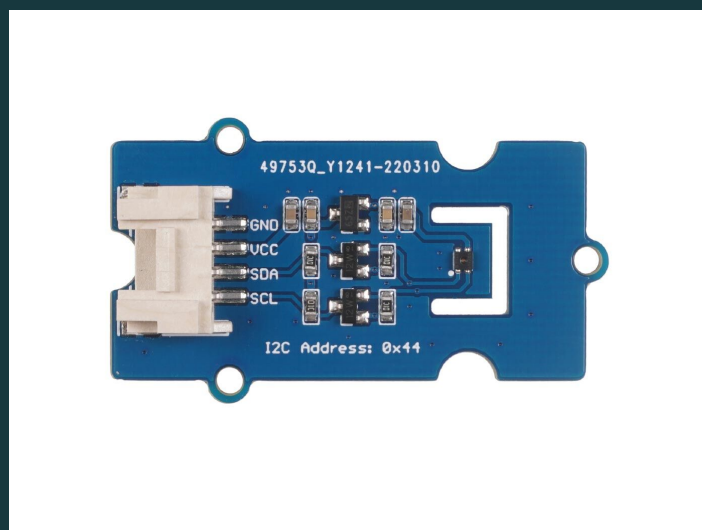
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UPDATED

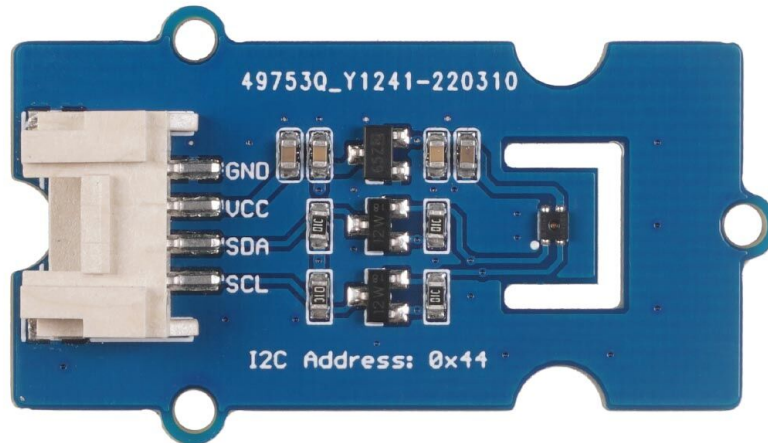
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PRICE

\$6.50(Excl. VAT)



Overview

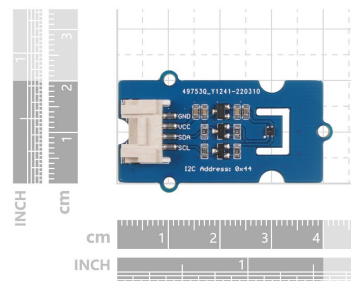
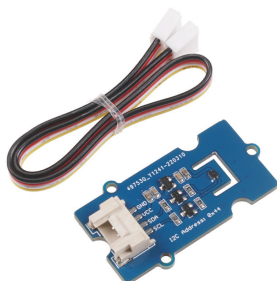
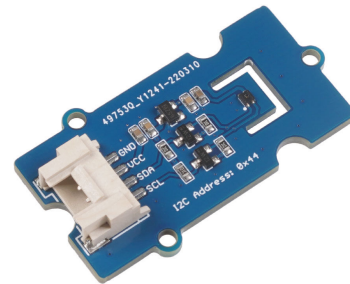
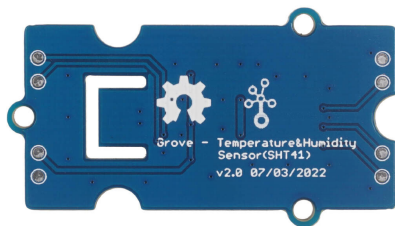


The Grove - Temperature & Humidity Sensor (SHT41) delivers precise measurements with $\pm 1.8\%$ to $\pm 2.5\%$ RH and $\pm 0.2^\circ\text{C}$ accuracy, operating across 0-100% RH and -40 to 125°C . Ideal for climate monitoring, cold chain data loggers, and smart home applications, it features a Grove I2C interface for effortless integration.

Key Features

- **Reliable precision measurement:** Accuracy of $\pm 1.8\% \sim \pm 2.5\%$ RH and $\pm 0.2^\circ\text{C}$, operating between 0-100% RH and $-40\sim 125^\circ\text{C}$
- **Condensing environments:** Fully functional in condensing or environment close to saturation. (with a variable power heater)
- **Serial Protocol:** Grove I2C interface with an ultra-low-power budget, standard, fast mode, and fast mode plus I2C address sensor
- **Stress-Test-Driven Qualification:** SHT4x sensor is JEDEC JESD47 qualified
- **Versatile connectivity:** The Grove interface enables effortless "Plug and Play", while its adaptability makes it ideal for environment detection of applications

Product Gallery



Applications

- Climate Monitoring and Control
- Cold chain data loggers
- Smart Thermostats
- Anti-fogging

Part List

Grove - Temperature & Humidity Sensor(SHT41)	x1
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Compliance & Logistics



HSCODE	9025800090
USHSCODE	9025900600
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Temp-Humi-Sensor-SHT41-p-5383.html>
- [SHT4x Sensor Datasheet](#)
- [Community Innovations: A Showcase of Sensirion-Based Grove Projects](#)

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