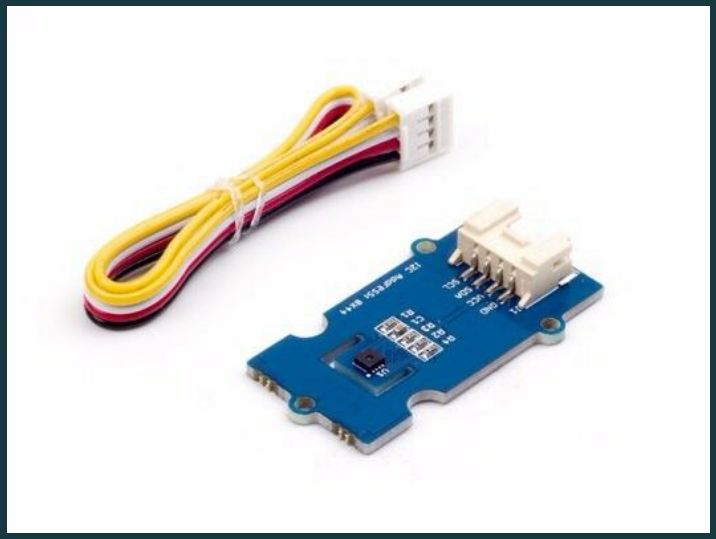
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Grove - Temperature&Humidity Sensor (SHT31), I2C, ±2% RH and ±0.3°C Temp, ideal for Smart Home, Industrial Automation

The Grove - Temperature&Humidity Sensor (SHT31) offers high accuracy ±2% RH and ±0.3°C with I2C, wide voltage range, and versatile Grove connectivity for smart home, industrial automation, and other environment detection...

SKU	UPDATED	PRICE
101020212	2026-11-03 03:46:48	$9.90(Excl. VAT)



Overview



The Grove - Temperature&Humidity Sensor (SHT31) delivers high accuracy measurement with typical accuracies of ±2% RH and ±0.3°C, and features an I2C interface with communication speeds up to 1 MHz and two user selectable addresses. Its fully calibrated, linearized, and temperature-compensated digital output, wide supply voltage range of 2.15 V to 5.5 V, and versatile Grove plug-and-play connectivity make it ideal for applications such as medical use, home/outside environment, automobile, food processing, and industrial freezers and refrigerators.

Key Features

01 **High accuracy**

Support reliable measurement of RH and temp boasting typical accuracies of ±2% RH and ±0.3°C, respectively

02 **Rapid data transmission：I2C Interface with communication speeds up to 1 MHz and two user selectable addresses**

03 **Streamlined performance**

With a fully calibrated, linearized, and temperature-compensated digital output,eliminating delays and ensuring prompt data acquisition

04 **Wide compatibility**

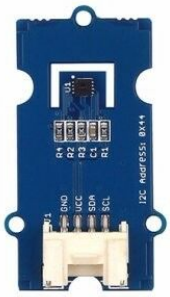
Operates on a wide supply voltage range of 2.15 V to 5.5 V, making it compatible with a variety of assemblies.

05 **Versatile connectivity**

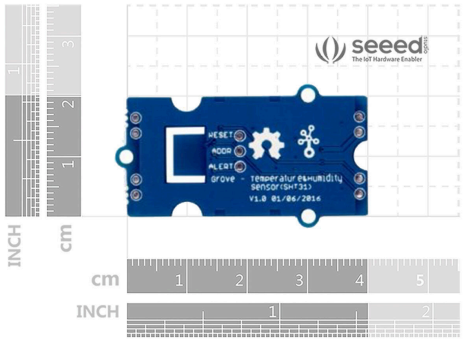
The Grove interface enables effortless "Plug and Play", while its adaptability makes it ideal for environment detection of applications.

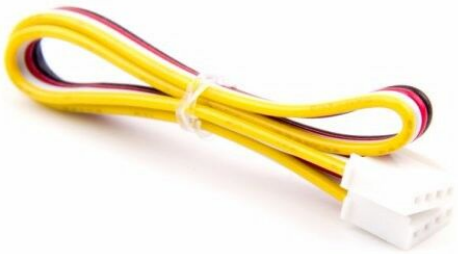
Product Gallery













Applications

- **Medical Use**
- **Home/Outside Environment**
- **Automobile**
- **Food Processing**
- **Industrial Freezers and Refrigerators**

Resource Links

- https://www.seeedstudio.com/Grove-Temperature-Humidity-Sensor-SHT31.html
- Grove - Temperature&Humidity Sensor(SHT31) PCB files and PDF schematic
- SHT31 Sensor Datasheet
- Library and example code
- I2C How-to for Arduino
- Community Innovations: A Showcase of Sensirion-Based Grove Projects

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