

INDUSTRIAL PRODUCT DATASHEET

Grove Temperature and Barometer Sensor(SPA06-003) - Supports I2C and SPI

Grove Temperature and Barometer Sensor (SPA06-003) with I2C and SPI for weather station, temperature, pressure, and altitude sensing.

SKU

110992164

UPDATED

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PRICE

\$4.50(Excl. VAT)



Overview



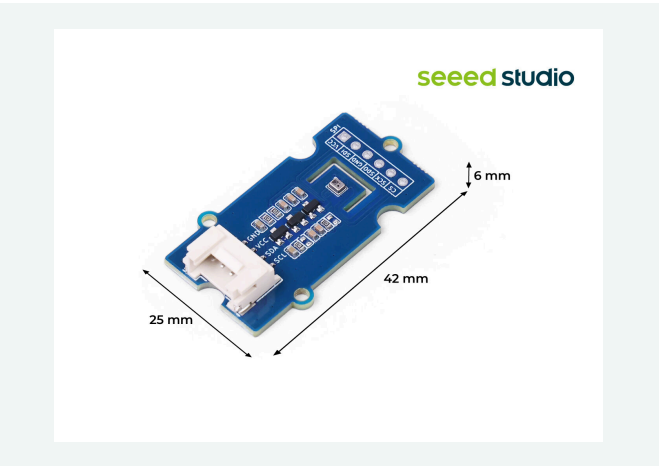
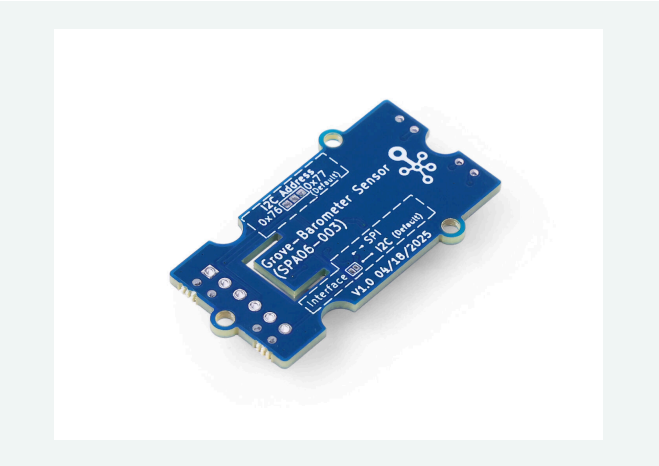
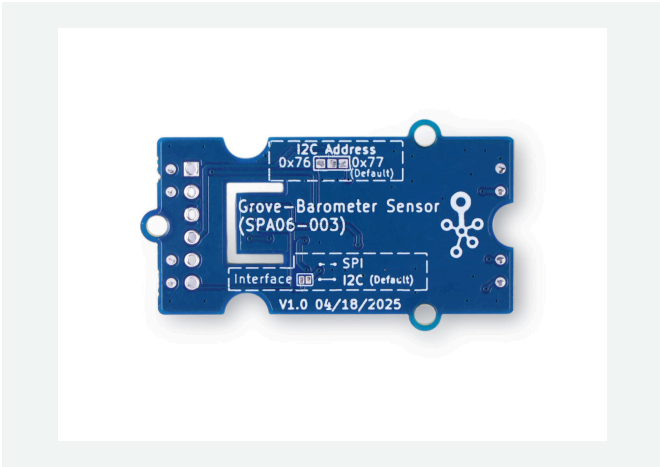
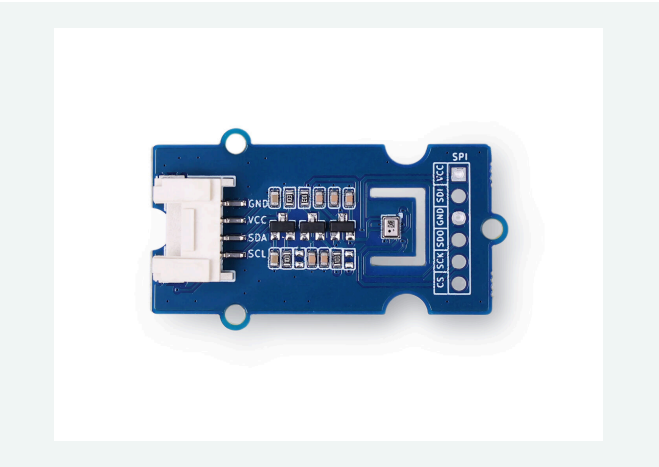
The Grove Temperature and Barometer Sensor (SPA06-003) supports I2C and SPI, measuring pressure from 300 hPa to 1100 hPa and temperature from -40°C to +85°C with ± 0.3 hPa and $\pm 1^\circ\text{C}$ accuracy. It features a Grove 4-pin connector for plug-and-play with Arduino, Raspberry Pi, Micro:bit, and more, and a FIFO enabling standby current as low as 0.5 μA .

Key Features

Note: As the sensor is quite sensitive to the environmental conditions, please **DO NOT** touch it with your fingers.□

- **Wide measurement range:** Pressure measurements range from 300hPa~1100hPa and temperature measurements range from -40°C~+85°C.
- **High accuracy:** The absolute accuracy of ± 0.3 hPa for pressure measurement and ± 1 °C accuracy for temperature measurement.
- **Long standby time:** Using the FIFO allows the host processor to stay in sleep mode for longer periods between readouts, reducing overall system power consumption and achieving a standby current as low as 0.5 μ A.
- **Grove Interface:** Features a **Grove 4-pin connector, ensuring a "Plug and Play"** experience to connect with mainstream hardware platforms like Arduino, Raspberry Pi, Micro:bit and many more.

Product Gallery



Specification

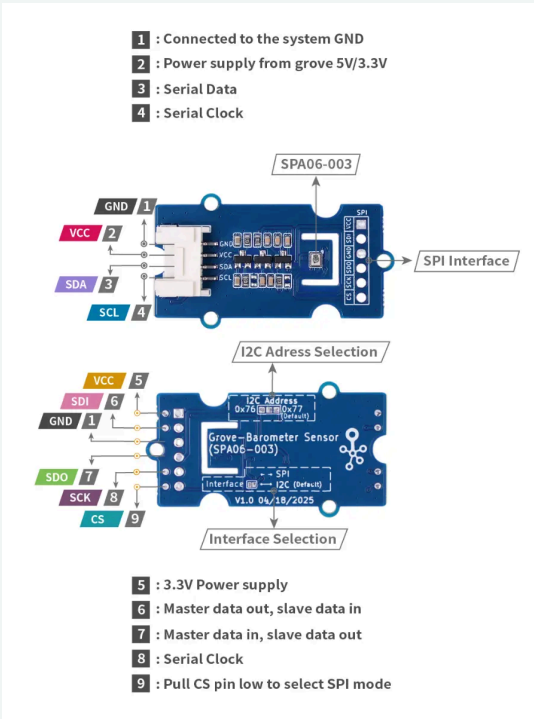
Parameter	Description
Supply Voltage	3.3V
Interface	I2C and SPI

I2C address	0x77(default) 0x76
Barometric Pressure Measure	
Range	300~1100 hPa
Absolute Accuracy	±0.3 hPa
Temperature Measurement	
Range	-40°C to +85°C
Accuracy	±1°C
Dimensions	40mm x 20mm x 6.5mm

ITEM	Grove-BMP280	Grove-BME280	Grove-DPS310	Grove - SPA06-003
Pressure Range	300 ~ 1100 hPa	300 ~ 1100 hPa	300 ~ 1200 hPa	300 ~ 1100 hPa
Temperature Range	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C	-40 ~ 85 °C
Pressure Precision	-	-	± 0.002 hPa (or ±0.02 m)	-
Pressure Accuracy (Absolute)	± 1 hPa (or ±8 m)	± 1 hPa (or ±8 m)	± 1 hPa (or ±8 m)	± 0.3 hPa
Pressure Accuracy (Relative)	± 0.12 hPa	± 0.12 hPa	± 0.06 hPa (or ±0.5 m)	± 0.03 hPa (or to ±0.25 m)

Pressure Resolution	0.18 Pa	0.18 Pa	0.06 Pa	0.06 Pa
Humidity	-	0 ~ 100%	-	-
Communication	I2C/SPI	I2C/SPI	I2C/SPI	I2C/SPI
Price	\$9.8	\$18.7	\$7.5	\$7.5

Hardware Overview



Applications

- Weather Station and Weather Sensing
- Measure Temperature, Pressure, and Altitude

Part List

Grove Temperature and Barometer Sensor(SPA06-003)	x1
Grove - 20cm Cable	x1

Compliance & Logistics

HSCODE	9025900000
USHSCODE	9025900600
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Temperature-and-Barometer-Sensor-SPA06-003-p-6441.html>
- [SPA06-003 Datasheet](#)
- [Schematic](#)

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