

FEATURES

- Fully calibrated, linearized, and temperature compensated digital output
- Wide supply voltage range, from 2.15 V to 5.5 V
- I2C Interface with communication speeds up to 1 MHz and two user selectable addresses
- Typical accuracy of 1.5 %RH and 0.1 °C for SHT35
- Very fast start-up and measurement time
- Tiny 8-Pin DFN package

RS PRO Sensors

RS Stock No.: 2465630, 2465631



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

- This is the next generation of Sensirion's temperature and humidity sensors. It builds on a new sensor chip that is at the heart of Sensirion's new humidity and temperature platform. It has increased intelligence, reliability and improved accuracy specifications compared to its predecessor. Its functionality includes enhanced signal processing, two distinctive and user selectable I2C addresses and communication speeds of up to 1 MHz. The DFN package has a footprint of 2.5 x 2.5 mm² while keeping a height of 0.9 mm. This allows for integration of the sensor into a great variety of applications. Additionally, the wide supply voltage range of 2.15 V to 5.5 V guarantees compatibility with diverse assembly situations.

General Specifications

Product Name	Temperature and humidity sensor
Type	Digital
No. of Pins	8Pins
Sensor Case Style	DFN

Humidity Specifications

Accuracy tolerance¹	Condition 0%RH to 90%RH, $\pm 0.2\%RH$
Repeatability²	Low, typ.0.21%RH, Medium, typ. 0.15%RH, High, typ. 0.08%RH
Resolution	0.01%RH
Hysteresis	at 25°C, $\pm 0.8\%RH$
Specified range³	extended ⁴ , 0 to 100%RH
Response time ($\tau_{63\%}$)	8 ⁶
Long-term drift	<0.25%RH/yr

Temperature Specifications

Accuracy tolerance¹	Condition 0°C to 90°C, $\pm 0.2^\circ C$
Repeatability²	Low, typ.0.15° C, Medium, typ. 0.08° C, High, typ. 0.04° C
Specified Range	-40 to 125° C
Response time 8 ($\tau_{63\%}$)	>2s
Long Term Drift	Max <0.03° C/yr

Electrical Specifications

Supply Voltage	2.15~5.5V
Power-up/down level	1.8~2.15V

Approvals

Compliance/Certifications	UL/ EN / IEC
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