



Stock#: 28018 **Category:** Accessories-Sensors

Sensirion Temperature/Humidity Sensor

Price: \$29.95

Weight: 0.0684 lb.

Qty	Unit Price	Ext Price
1	\$29.95	\$29.95
5	\$26.96	\$134.78

**Sensirion
Temperature/Humidity Sensor**

Quantity:

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DESCRIPTION:

Humidity is notoriously difficult to measure. Some of the scientific and electronic considerations to measuring humidity include: analog to digital interface and external circuitry which might require op-amps or oscillator circuitry; temperature compensation adjustments to calculate dew point; calibration against a known humidity source; mounting, protection and response time in the real-world. If you're interested in the details see Tracy Allen's web site ([EME Systems](#)) for his discussion.

The [Sensirion](#) SHT1x addresses many of these issues head on. It is a smart sensor for both humidity and temperature, and it comes from the factory in a tiny package that incorporates the analog to digital interface. All that the BASIC Stamp has to do is read out the humidity and temperature values through the two-wire digital serial interface. The only math required is a simple scale and offset. The SHT1x is factory calibrated so that it returns temperature with a resolution of 0.01 degrees Celsius and relative humidity with a resolution of 0.03 percent. The accuracy is better than most other sensors too. Worst-case temperature accuracy is +/- 2 degrees C - but in the "room temperature" range the accuracy better than +/- 1 degree C. The relative humidity sensor is similarly accurate: +/- 3.5% in the range 20% to 80%. This is quite remarkable for a low-cost sensor. Excellent for commercial or home-based projects that require such readings.

Downloads:

[Sensirion Kit Documentation \(.pdf\)](#)

[Sensirion SHT1x Documentation and Source Code \(.zip\)](#)

[Sensirion SHT1x Data Sheet \(.pdf\)](#)

[N&V; column "Environmental Sensing" #91 \(.pdf\)](#)

[N&V; code "Environmental Sensing" #91 \(.zip\)](#)