

# SHT40 Temperature & Humidity Sensor Board

## Product Overview

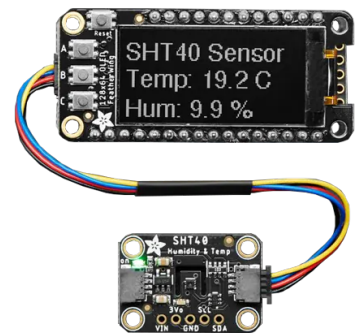
09/07/2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

Adafruit SHT40 Temperature and Humidity Sensor Board integrates a fourth-generation, high-accuracy sensor and is designed with a true I<sup>2</sup>C interface for easy interfacing with only two wires. This sensor board includes I<sup>2</sup>C fast mode plus, CRC checksum, I2C address 0 x 44, and a variable power heater.

The SHT40 temperature and humidity sensor board offer  $\pm 1.8\%$  typical relative humidity accuracy from 25% to 75% and  $\pm 0.2^{\circ}\text{C}$  typical accuracy from  $0^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ . This sensor board is written Arduino and CircuitPython/Python library code to work with any microcontroller or single-board computer like Raspberry Pi.



## Features

- Fully functional in a condensing environment
- Includes SparkFun Qwiic compatible STEMMA QT connectors for the I<sup>2</sup>C bus
- Variable power heater
- NIST traceability for sensor
- JEDEC JESD47 qualification for sensor
- Mature technology from sensirion
- 0 x 44 I<sup>2</sup>C address
- RoHS compliant

## Specifications

- Up to  $\pm 1.8\%$  relative humidity accuracy
- Up to  $\pm 0.2^{\circ}\text{C}$  temperature accuracy
- $0.4\mu\text{A}$  average bare sensor current (at a measurable rate 1Hz)
- 80nA idle bare sensor current
- 3.3V to 5V breakout supply voltage
- 0% to 100% relative humidity and  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$  operating range

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.in/new/adafruit/adafruit-sht40-sensor/>