

SHT40 Temperature & Humidity Sensor Board

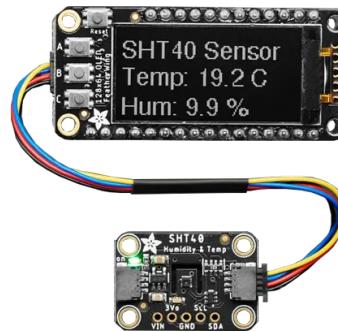
Product Overview

09/07/2022

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Description

Adafruit SHT40 Temperature and Humidity Sensor Board integrates a fourth-generation, high-accuracy sensor and is designed with a true I²C interface for easy interfacing with only two wires. This sensor board includes I²C 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°C to 75°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 I²C bus
- Variable power heater
- NIST traceability for sensor
- JEDEC JESD47 qualification for sensor
- Mature technology from sensirion
- 0 x 44 I²C address
- RoHS compliant

Specifications

- Up to $\pm 1.8\%$ relative humidity accuracy
- Up to $\pm 0.2^\circ\text{C}$ temperature accuracy
- 0.4 μA 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°C to 125°C operating range

Mouser Part Number

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