

Qwiic Digital Temperature Sensor Breakout Board

SEN-18521

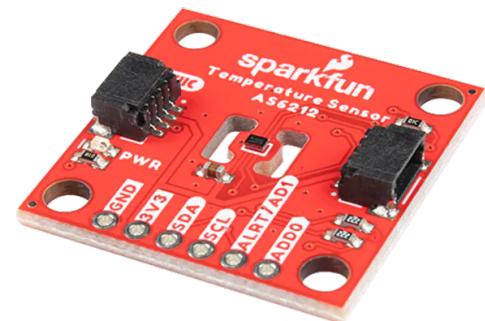
Product Overview

10/03/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Qwiic Digital Temperature Sensor Breakout provides a combination of high-temperature accuracy with excellent low power consumption using the AS6212 digital temperature sensor from ams AG. This sensor measures temperature up to $\pm 0.2^\circ\text{C}$, consumes an average of 6 μA in normal operation (0.1 μA in standby), and provides accuracy over a -40°C to 125°C temperature range. The Qwiic digital temperature sensor breakout features low power consumption and operates from a 1.7V to 3.6V voltage range.



The AS6212 has eight available I²C addresses selected by a pair of solder jumpers on the board and communicates via I²C. The breakout routes the I²C interface to a pair of Qwiic connectors to work with a plug-and-play Qwiic Ecosystem. The AS6212 features an alert output to trigger when recorded temperature data crosses user-designated thresholds.

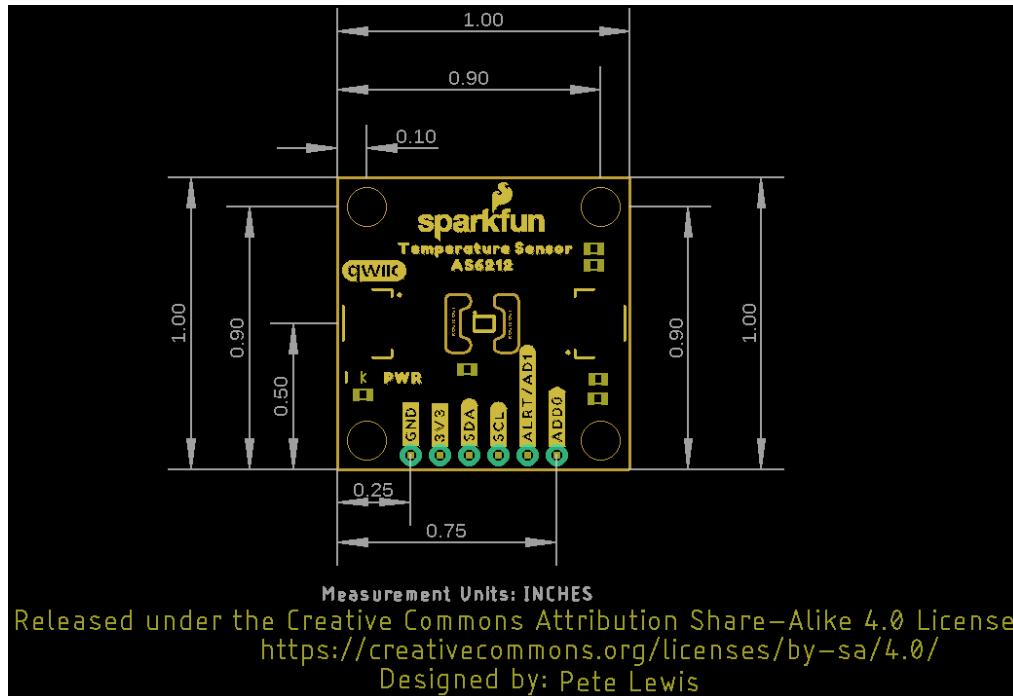
Features

- Communicates via I²C (Qwiic enabled)
- Eight selectable I²C addresses (0x48 default)
- -10°C to 125°C operating temperature range
- 0.1 μA standby current
- Low power consumption
- 1.7V to 3.6V operating voltage range
- High-temperature accuracy:
 - $\pm 0.2^\circ\text{C}$ from -10°C to 65°C
 - $\pm 0.3^\circ\text{C}$ from -40°C to -10°C and 65°C to 85°C
 - $\pm 0.5^\circ\text{C}$ from 85°C to 125°C

Schematic

- [Qwiic Digital Temperature Sensor Breakout](#)

Board Dimensions



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-18521-temp-sensor-breakout/>