

Qwiic Atmospheric Sensor Breakout

SEN-15440

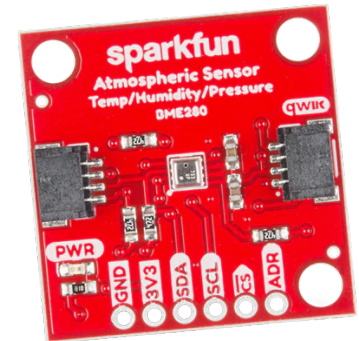
Product Overview

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

Description

SparkFun Qwiic Atmospheric Sensor Breakout (SEN-15440) is based on the Bosch Sensortec BME280 Integrated Environmental Sensor. The on-board BME280 sensor measures atmospheric pressure from 30kPa to 110kPa, relative humidity and temperature. The breakout provides a 3.3V SPI interface, a 5V tolerant I²C interface (with pull-up resistors to 3.3V), and can be configured to take measurements with less than 1mA of current draw.



The BME280 atmospheric sensor breakout can be automatically detected, scanned, configured, and logged using the OpenLog Artemis datalogger system. The breakout can be connected without soldering, to any Qwiic-based project. The pins of the BME280 are broken out 0.1" spaced for other applications.

Features

- 1.71V to 3.6V operating voltage range (default on Qwiic system: 3.3V)
- -40°C to 85°C operating temperature range
- 0 to 100% RH humidity range
- 300 to 1100 hPa (30,000-110,000 Pa or approximately 4.35-15.95 PSI) pressure range
- I²C and SPI Interface
- 0x77 (default) or 0x76 I²C address

Applications

- Indoor/outdoor navigation
- Weather forecasting
- Home automation
- Personal health and wellness monitoring

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-15440-breakout/>