Qwiic Scale

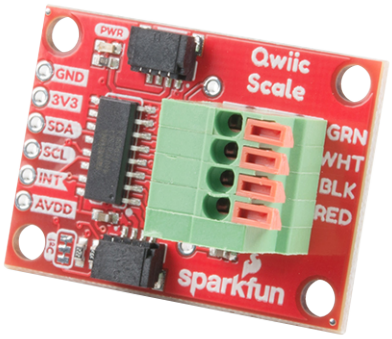
SEN-15242

Product Overview

11-24-2021

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

Description



SparkFun Qwiic Scale is a small breakout board for the NAU7802 that allows users to easily read load cells to accurately measure the weight of an object. The NAU7802 is an ADC with built in gain and I²C output to amplify and convert the readings from a standard load cell. This breakout board can be connected to a microcontroller to read the changes in the resistance of a load cell and with some calibration, very accurate weight measurements can be achieved. The Qwiic scale board can be used for creating industrial scale, process control, or simple presence detection. This board can be connected to a load cell to translate sensor data into something the microcontroller can read. A load cell is a device that translates pressure or force into electrical signals.

The Qwiic scale board provides a four spring terminal to connect the load cell with no soldering required. This board also breaks out an interrupt pin and AVDD to the edge of the board in addition to the I²C pins.

Features

- Operating Voltage:
- 3.3V (NAU7802: 2.7V-5.5V)
- 24-bit dual-channel Analog to Digital Converter (ADC)
- Programmable gain amplifier
- On-chip temperature sensor
- Simultaneous 50Hz and 60Hz rejection
- Programmable PGA gains from 1 to 128
- Programmable aDC data output rates
- External differential reference voltage range from 0.1V to 5V
- Low power consumption and programmable power management options:
  - <1uA standby current
- 2x Qwiic Connectors

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/sparkfun/sparkfun-qwiic-connect-system/