Gravity: HX711 I²C Weight Sensor Kit

KIT0176

Product Overview

01-03-2023
For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The Gravity: HX711 I²C Weight Sensor Kit from DFRobot is equipped with all the accessories needed to build the scale. This reduces the difficulty of structure construction so that users can quickly create an electronic scale to obtain the weight information of the objects. The built-in calibration algorithm calibrates the weight information with one key and eliminates the need to run a separate code for calibration.

The HX711 I²C weight sensor kit is compatible with the Arduino series, micro:bit, ESP32, and Raspberry Pi and features a built-in signal adapter board. This kit offers a 1g to 1000g measuring range and operates at a 3.3V/5V range. Typical applications include a simple electronic scale, daily necessities weighing, daily necessities remaining alarm, and IoT weighing platforms.
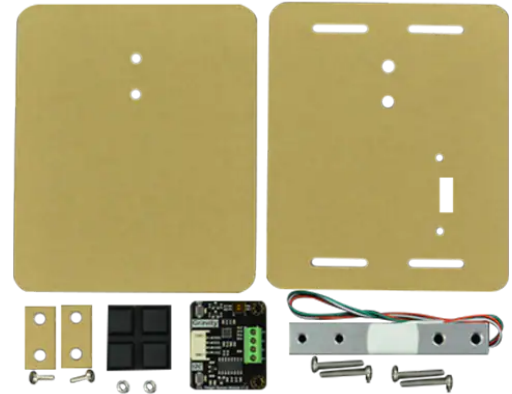
Features

- Complete accessories, convenient, and quick to build the scale
- Built-in calibration algorithm
- Weight calibration can be done by pressing the button
- HX711 AD conversion chip
- Weight calibration can be done through API
- Gravity I²C communication mode and compatible with 3.3V and 5V
- Compatible with Arduino series, micro:bit, ESP32, and Raspberry Pi

Specifications

- 1g to 1000g measuring range
- 3.3V/5V working voltage
- <20mA working current
- < ±0.2%g synthesis deviation
- Overall dimensions after assembly:
  - 120mm x 100mm x 30mm
- Signal transfer board size:
  - 31mm x 37mm
- Communication method:
  - I²C
- I²C address:
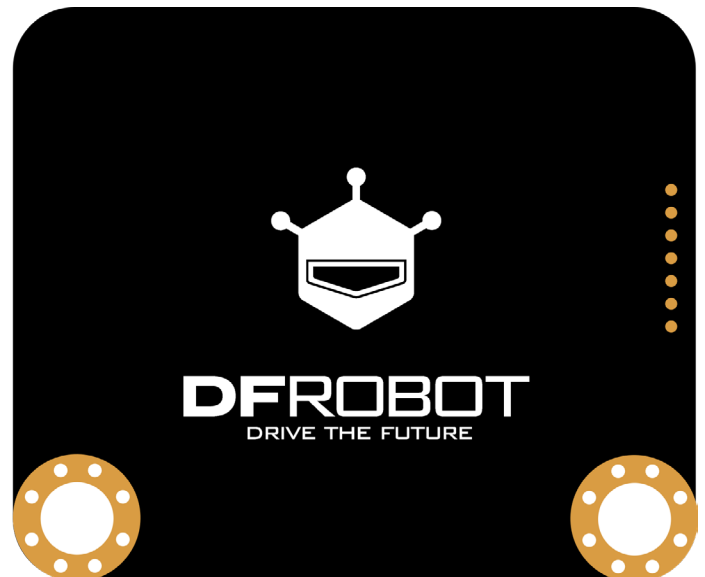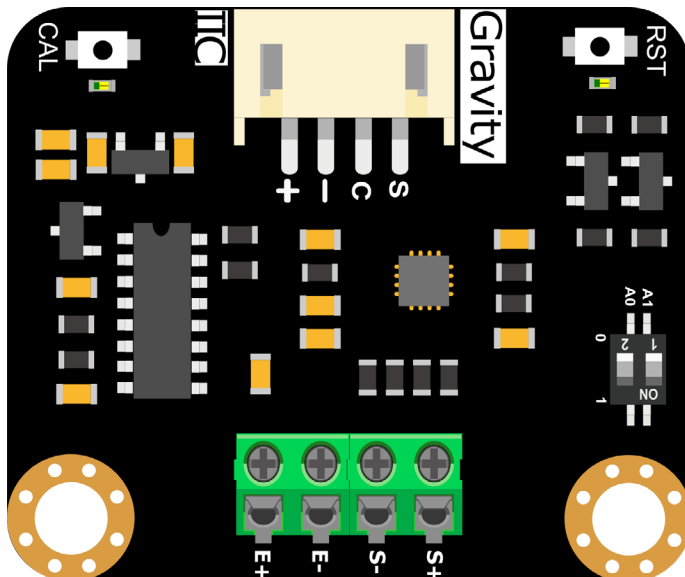 - 0 x 64/0 x 65/0 x 66/0 x 67

Kit Contents

- 1x Weight sensor
- 1x Signal transfer board
- 1x Acrylic bracket
- 2x M4x20 CM screws
- 2x M5x20 CM screws
- 2x M3x8 screws and nuts
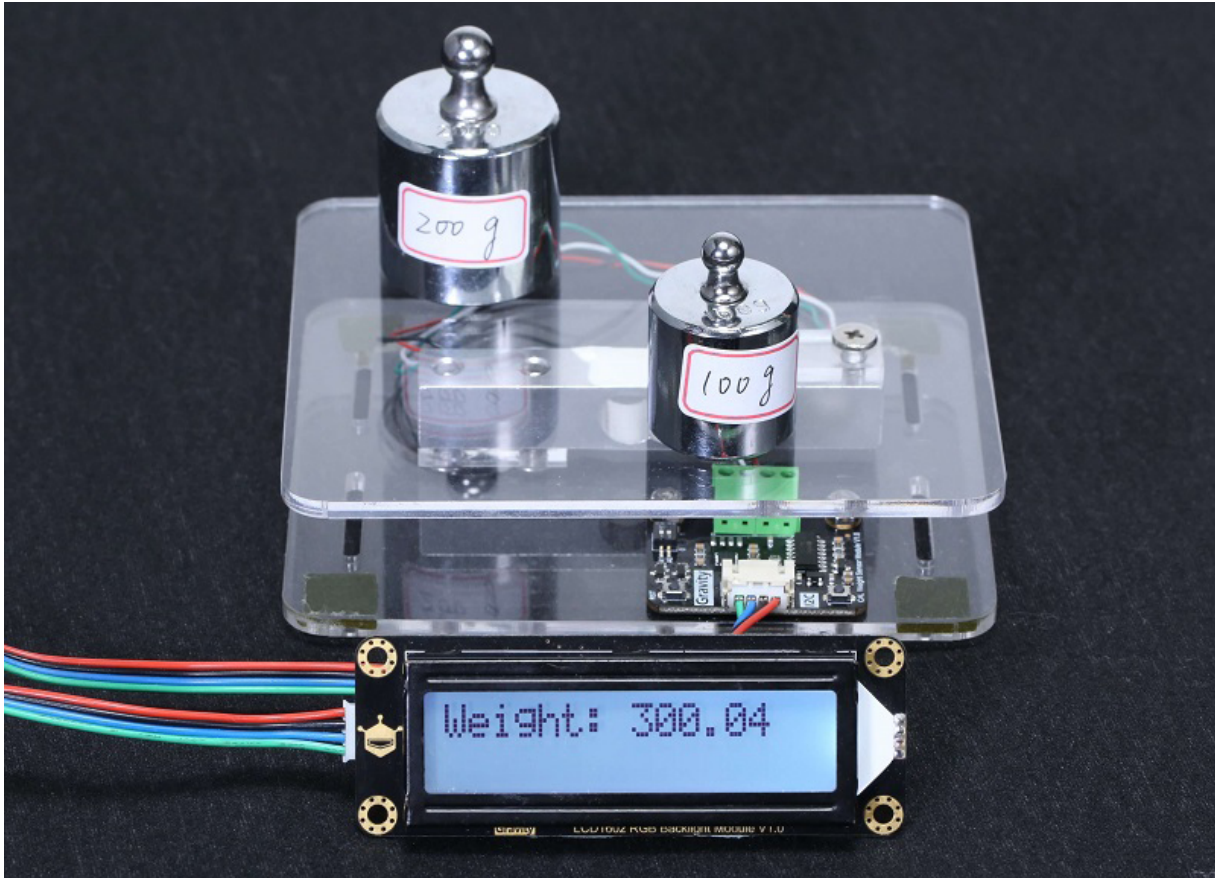- 4x Trapezoidal feet
- 1x Gravity-4P I²C cable

Applications

- Simple electronic scale
- Daily necessities weighing
- Daily necessities remaining alarm
- IoT weighing platforms

Board Overview

Application Overview

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-hx711-i2c-weight-sensor-kit/