

Part Number: SEN0160

Description: Gravity: Digital Weight Sensor

## INTRODUCTION

This Electronic Arduino Weight Sensor is able to detect 1kg weight. It based on HX711, a precision 24-bit analog-to-digital converter designed for weight scale and industrial control applications to interface directly with a bridge sensor.

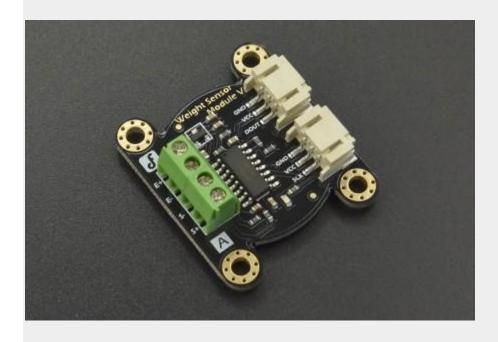
This Electronic arduino weight sensor lowers the cost of the electronic scale, and at the same time improving the performance and reliability. The interface of this sensor uses <a href="DF Robot">DF Robot</a> <a href="Gravity Interface">Gravity Interface</a>. The output adopts compact terminal that makes the <a href="sensor">sensor</a> easier to connect. It's the best choose for electronic enthusiast to do some tiny home scale.

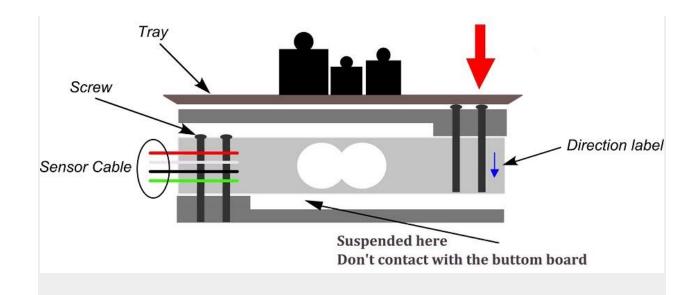
Sensor connection Note: Red Line -- E+

Black Line -- E-

White Line -- S-

Green Line -- S+





## **SPECIFICATION**

#### 24-Bit Analog-to-Digital Converter for Weight Scales (HX711)

- Two selectable differential input channels
- On-chip active low noise PGA with selectable gain of 32,64 and 128
- On-chip power supply regulator for load-cell and ADC analog power supply
- On-chip oscillator requiring no external component with optional external crystal
- On-chip power-on-rest
- Simple digital control and serial interface: pin-driven controls, no programming needed
- Selectable 10SPS or 80SPS output data rate
- Simultaneous 50 and 60Hz supply rejection
- Supply Voltage: 2.6V~5.5V
- Current: <1.6mA
- Working temperature: -40~85°C
- 16 pin SOP-16 package

### **Weight Sensor Module**

- Range: 1kg
- Excitation voltage: 5-15 V
- Output sensitivity: 1.0±0.15mV/V
- Synthetical error: 1 per thousand cent of full scale
- Zero shift: 0.05/0.03 (30min) %F.S
- Zero temperature shift: 0.05/0.03 %F.S/10°C
- Zero output: ±0.1mV/V
- Input impedance: 1055±15 Ω
- Output impedance: 1000±5 Ω
- Overload capability: 200 %F.S
- Output: Analog output
- Size: 33mm\*38mm

# SHIPPING LIST

•	Weight	sensor	module	x1
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Weight sensor Sensor cable x1

x2