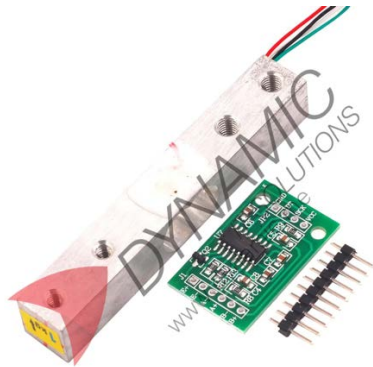


Load Cell Weight Sensor HX711



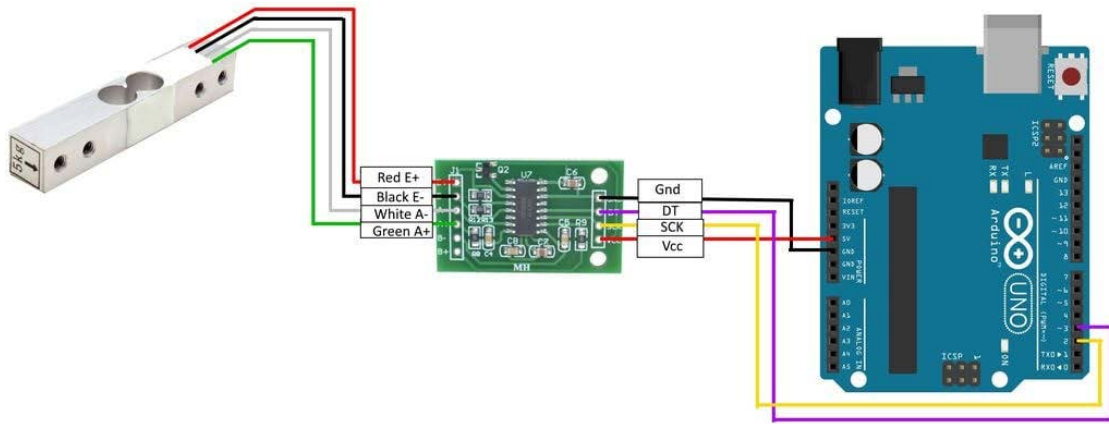
Features:

The Load Cell Weight Sensor with HX711 amplifier integrates a precision strain gauge load cell and a 24-bit analog-to-digital converter designed for weight and force measurement. The aluminum-alloy load cell uses a Wheatstone bridge configuration with four strain gauges, providing linear and repeatable output over its rated capacity. The HX711 amplifier offers two differential input channels with programmable gain (up to 128), on-chip voltage regulation for stable bridge excitation, and a simple two-wire interface compatible with Arduino, Raspberry Pi, and other microcontrollers. This combination delivers stable, high-resolution readings suitable for scales, liquid volume monitoring, and automated weighing systems.

Specifications	
Load Cell Capacity Options	1 kg / 5 kg / 10 kg / 20 kg
Operating Voltage (Load Cell)	5 V DC Recommended
Operating Voltage (HX711)	2.6 V – 5.5 V
Output Data Rate	10 Hz / 80 Hz
Current Consumption	< 1.7 mA (typ)
Operating Temperature	–20 °C to +85 °C
Mounting	Holes 2× M4 + 2× M5
Bridge Configuration	Wheatstone Bridge (4 Strain Gauges)
Rated Output	1.0 ± 0.15 mV/V
Non-Linearity	≤ 0.03 % F.S
Hysteresis	≤ 0.03 % F.S
Repeatability	≤ 0.03 % F.S
Creep (5 min)	≤ 0.05 % F.S
Input Impedance	1066 ± 20 % Ω
Output Impedance	1000 ± 10 % Ω
Insulation Resistance	≥ 2000 MΩ
Usage	Weight measurement, scale systems, automation, liquid or object mass detection

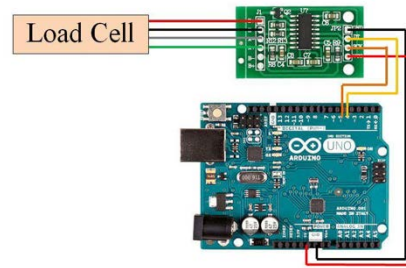
Pinouts:

Pin Name	Type	Description
E+	Power +	Load cell excitation positive (VCC, Red)
E–	Power -	Load cell excitation negative (GND, Black)
A+	Output +	Signal positive from load cell (Green)
A–	Output -	Signal negative from load cell (White)
VCC	Input	Power supply (2.6 V – 5.5 V)
GND	Ground	System ground
DT	Output	Data output to microcontroller
SCK	Input	Serial clock from microcontroller



Installation Example

HX711 to Arduino Uno	Load Cell to HX711
VCC to 5V	E+: RED
GND TO GND	E-: BLACK
SCK to D5	A-: WHITE
DT TO D6	A+: GREEN



Product Pictures:

