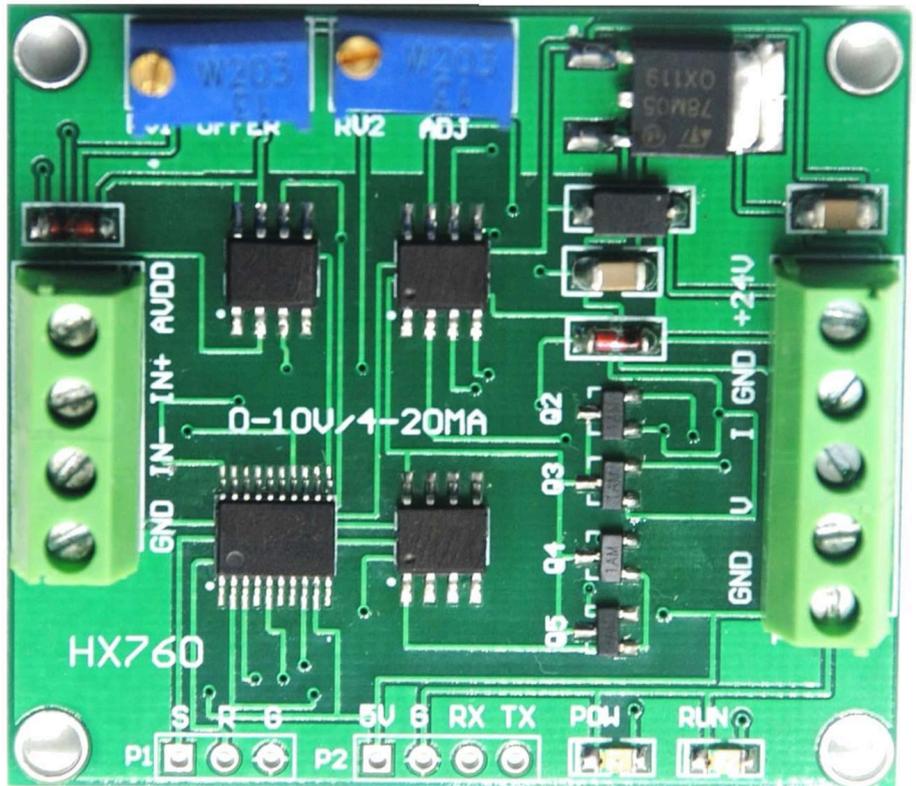


This HX760 works on 9-24V DC and converts the small electric signal into standard DC 4-20mA, voltage 0-10V signal for PLC or other controlling systems. It is useful for load cell sensor signal amplification in industrial applications

This HX760 Load cell amplifier module is a very simple low-cost full-bridge weight sensor signal conditioning circuit module. It accepts $\pm 20\text{mV}$ differential signal input and converts it into 4-20mA and 0-10V output in linearity. It is very easy to be embedded into industrial devices and can be used with various kinds of full bridge load cells to measure and monitor weight, force, tension, etc. signals.



Features

- 24 Bit high precision ADC
- Internal precision amplifying and conversion circuits.
- Small size board, wiring terminal blocks.
- The 4-20mA current and 0-10V voltage output in one amplifier.

Applications

- Full bridge weight sensor signal conditioning and conversion
- Load cell signal transmission and data acquisition
- Pressure, displacement, strain gauge, torsion signal, accelerating signal measurement.

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1. Technical Specifications

Parameter	Specifications
Input	±20mV(Full bridge load cell signal ±20mV)
Data Accuracy	24bit(A/D conversion IC)
Refresh Frequency	80Hz
Excitation voltage	5VDC Power supply to load cell
Operating voltage	9~24 VDC
Operating current	<10 mA
Operating Temperature	-10°C~55°C
Dimension(L x W x H)	50*45*10 mm

2. Pinout

P1 Terminal block wiring:

- +24V: Power supply +
- GND: Power supply –
- V: 0-10V output
- I: 4-20mA output
- GND: Power supply –

Note:

- Potentiometer RV1(OFFER) adjust output medium value.
- Potentiometer RV2(ADJ) adjust output GAIN value (amplification times).

CH1 Terminal block wiring:

- VDD: Load cell power supply 5V + (red wire)
- I+: Load cell in-phase input (green wire)
- I-: Load cell anti-phase input (white wire)
- GND: Load cell power supply -(black wire)

RV1 OFFER Potentiometer - To adjust output zero point

RV2 ADJ Potentiometer - To adjust output GAIN/SPAN(amplification times)

Indicator lamp:

- RUN: operating Status indicator
- POW: operating Power supply indicator

*Note:

- Please make sure the polarity connection is right, then power on!
- It is designed for a full bridge load cell/weight sensor, and cannot be used with a half bridge load cell.
- The other terminals have no functions

HX760: output 4-20mA and 0-10V signal (0-10V output, the power supply must be not lower than 15V.)

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