

Ultra Compact, Low Voltage Load Cell Amplifier / Strain Gauge Amplifier AS200501

The AS200501 is an ultra-compact board for 3-wire systems providing a current output (typically 4mA-20mA), but can be configured to virtually any linear gradient i.e. **0.2mA to 8.2mA**. Mid-zero point can also be configured to virtually any value i.e. 5mA to support bipolar +/-mV/V inputs for compression / tension transducers. It has been designed to be mounted directly with the transducer. The unit has individual multi-turn potentiometers for the precise setting of Zero and Span. The inputs provide EMI-/RF-suppression along with a low-pass filter. Transducer wires can be easily connected to the board by soldering.

Features

- Wide range power supply 8V-30V
- Stabilised bridge excitation voltage
- Bridge resistance 350 Ohm (or greater)
- Bridge sensitivity 0.2mV/V 10mV/V
- Ultra-small 18mm diameter, 7mm height
- Fast calibration procedure
- Reverse-polarity protection

Applications

- Industrial Weighing
- Load Testing & Monitoring
- Overload Protection Systems

Board Connections







Ordering

Part number: AS200501*

- *Please specify required input and output settings before
- ordering.
- Customer specific electrical / mechanical changes are possible please contact us with your individual requirements.

Schematic Diagram



Specifications

opeenieuderie				
Parameter	Min	Typical	Max	Unit
Supply Voltage, Vin	8	12	30	V
Current Output – Zero (adjustable control)	0	4		mA
Current Output – Span (adjustable control)		20	36	mA
Bridge Sensitivity	0.2	3	>10	mV/V
Bridge Resistance	350	1000		Ohms
Bridge Excitation Voltage	3	5	10	V
Current Output Temp. Coefficient – Zero		0.001		% FS /°C
Current Output Temp. Coefficient – Span		5		ppm/°C
Operating Temperature	-20		50	C°

Copyright © 2020 ASSET INSTRUMENTS ENGINEERING LTD. www.aieng.co.uk March 2021, Rev. 1.4 Page 1/1

DISCLAIMER: Asset Instruments Engineering Ltd. reserves the right to make changes to its products and/or specifications and makes no guarantee regarding the suitability of its products for any particular purpose. Buyer is solely responsible for validating and testing these products in their application including compliance with all laws, regulations and safety requirements.