Ultra Compact 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

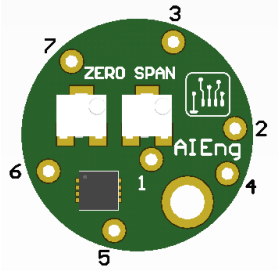
Applications

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

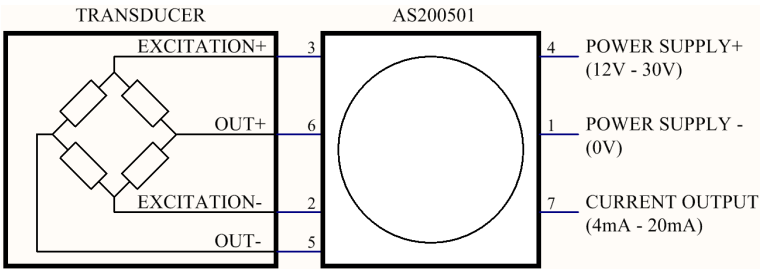
Ordering

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.	

Board Connections



Schematic Diagram



Specifications

Parameter	Min	Typical	Max	Unit
Supply Voltage	8	24	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