

AS200706

3-Wire 4-20mA Bridge Amplifier with Linearity Correction

The AS200706 is a small compact board for 3-wire systems providing a 4mA - 20mA current output with adjustable linearity correction. The unit has individual multi-turn potentiometers for the precise setting of Zero, Span and Linearity without the need of a computer. This unit is also available with **mid. zero output** (12mA for example) for compression / tension transducers. The inputs provide EMI-/RF-suppression. Transducer wires can be easily connected to board via soldering or SIL sockets (standard).

Features

- Wide range power supply 16-30V
- 5V stabilised bridge excitation
- Bridge resistance 240 Ohm (or greater)
- Bridge sensitivity 0.6mV/V – 3mV/V
- Size 29mm x 29mm, 7.5mm height
- Fast calibration procedure
- Reverse-polarity protection
- Easy linearity correction procedure



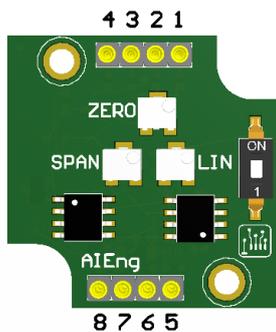
Applications

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

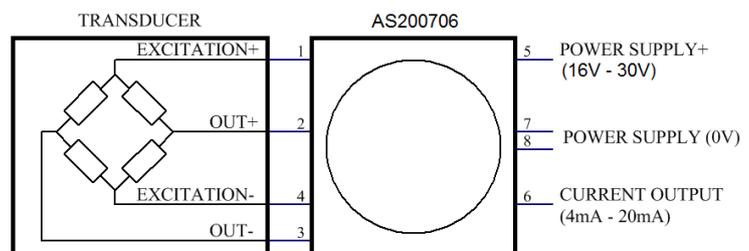
Ordering

Part number:	AS200706*
*Please specify required input range, between 0.6mV/V – 3mV/V	
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	16	24	30	V
Current Output – Zero (adjustable control)	1.6	4		mA
Current Output – Span (adjustable control)		20	24	mA
Bridge Sensitivity	0.6		3	mV/V
Bridge Resistance	240			Ohms
Bridge Excitation Voltage		5		V
Linearity Correction Range		+/-1.8		mA @12mA
Current Output Temp. Coefficient – Zero		0.3		uV/°C

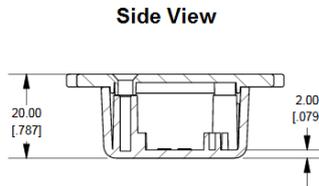
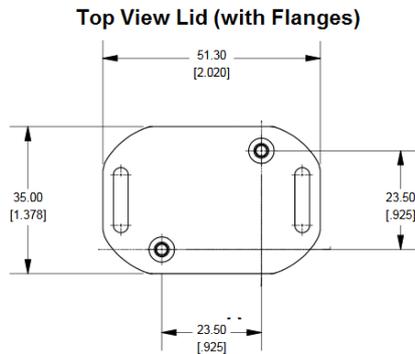


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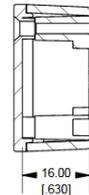
Parameter	Min	Typical	Max	Unit
Current Output Temp. Coefficient – Span		0.01		%/°C
Operating Temperature	-20		50	°C

Optional Extras

Part number: AS200706-ENCL1	ABS Enclosure for AS200706 Amplifier including Lid with mounting flanges Three colours available: Black, Grey, Translucent Blue
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End View



Units: mm [inch]

