

Instrumentation/Process Control

437 Bridgesensor

Signal Conditioner



STANDARD FEATURES

- Complete strain gage bridge signal conditioner
- 4-20 mA or 0-20mA output
- Output capable of driving 1000 Ω loop
- Bridge balance with 68% tare offset capability
- High gain amplifier; can accept live load signals as low as 3mV and provide 16mA output span
- Sufficient excitation current for five load cells
- Powered by 10 to 36VDC unregulated
- Rugged epoxy encapsulated design

SPECIFICATIONS

OUTPUT CURRENT SPAN:

4 to 20mA; 0 to 20 mA

INPUT FOR 16 mA SPAN:

3mV to 62mV

ZERO ADJUST:

12 mA

AMPLIFIER:

Cell sensitivity (10 volts excitation):
0.3mV/V to 6.2mV/V

OUTPUT:

Current: 0 to 20mA

BRIDGE EXCITATION SUPPLY:

Adjustment range: 5 to 15 Volts

POWER REQUIREMENTS:

Input Voltage: 10 to 36 Volts DC
Input current with 150 mA B+ load: 0.17 A @ 36V to 0.7 A @ 10V
Input current with one 350 Ω bridge: 0.1 A @ 36V to 0.35 A @ 10V

OPERATING TEMPERATURE RANGE:

-13°F to 131°F (-25°C to 55°C)

PACKAGING:

Epoxy potted plastic enclosure with exposed screw terminal connections

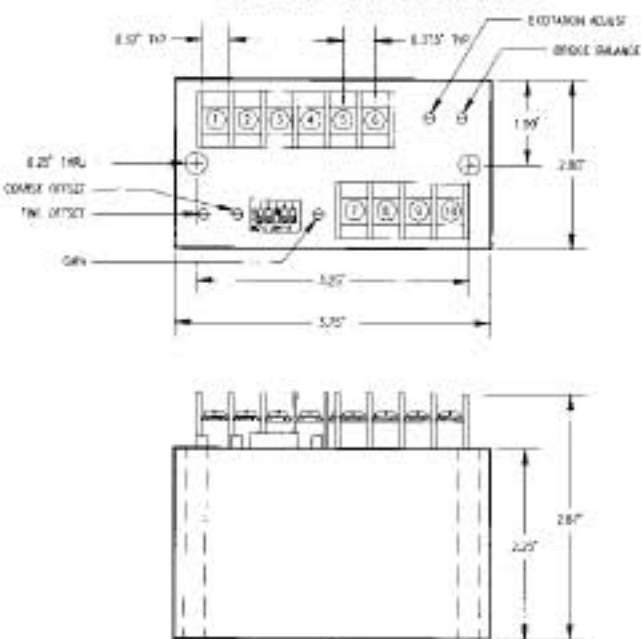
WEIGHT:

2lb (0.9kg)

WARRANTY:

One-year limited warranty

CASE DIMENSIONS:



See table on next page for electrical connections

437 Bridgesensor

PART #	DESCRIPTION
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46719.....	437 Bridgesensor, 4-20 mA/0-20 mA, 10-36 VDC	2 lb
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EST. SHIP WEIGHT

437 ELECTRICAL CONNECTIONS			
Screw Terminal	Function	Screw Terminal	Function
1	+DC Power	6	+ Excitation
2	-DC Power	7	Current Output
3	-Sense	8	Amplifier CMN
4	-Excitation	9	-Input
5	+Sense	10	+Input