

437 Bridgesensor

Signal Conditioner

Specifications

Output Current Span:

4 to 20 mA; 0 to 20 mA

Input for 16 mA Span:

3 mV to 62 mV

Zero Adjust:

12 mA

Amplifier:

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

Output:

Current: 0 to 20 mA
 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 at 36V to 0.7 A at 10 V
 Input current with one 350 Ω bridge: 0.1 A at 36V to 0.35 A at 10 V

Operating Temperature Range:

-13° F to 131° F (-25° C to 55° C)

Packaging:

Epoxy potted plastic enclosure with exposed screw terminal connections

Weight:

2 lb (0.9 kg)

Warranty:

One-year limited warranty



Standard Features

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

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

Part Number/Price

Part #	Description	Est. Weight	Price
46719	437 Bridgesensor, 4-20 mA/0-20 mA, 10-36 VDC	2 lb	\$715.00

Case Dimensions

A	0.32 in (8 mm) TYP	H	3.75 in (95 mm)
B	0.375 in (10 mm) TYP	I	Gain
C	Excitation Adjust	J	Fine Offset
D	Bridge Balance	K	Coarse Offset
E	1.0 in (25 mm)	L	0.25 in (6 mm) Thru
F	2.0 in (51 mm)	M	2.25 in (57 mm)
G	3.25 in (83 mm)	N	2.87 in (73 mm)

