

## 90131

### STRAIN GAGE SIGNAL CONDITIONER

Model 90131 Bridgesensor is a self contained, AC powered, signal conditioning module for bridge type sensors. It contains a precision differential instrumentation amplifier with filtered output and a highly regulated low noise, adjustable output bridge excitation source. The unit is completely encapsulated for use in rugged environments. The output filter cutoff frequency is 200 Hz and may be lowered by adding two external capacitors.



### SPECIFICATIONS

Gain range .....	40-250
Gain temperature coefficient .....	250 ppm/C
Output offset - Tare .....	
Range .....	-5V to +2V
Drift .....	+/-0.2 mV/C
Common mode rejection .....	
Gain + 40(DC-60 Hz) .....	90dB
Gain = 250(DC-60 Hz) .....	100dB
Rated output (2k load) .....	+/-10V
.....(4-20 mA available)	
Frequency response (to -3dB).....	
2 pole Bessel Filter .....	2 kHz
Common mode input voltage .....	+/- 10V
Excitation supply .....	4 to 15 VDC
Excitation current .....	120 mA maximum
Line isolation .....	500 VDC
Mechanical .....	
Operating temperature .....	0C to 70C
Storage temperature .....	-25 C to +85C
Weight .....	18 oz. (150 grams)
Size .....	3.75"L x 2.0"W x 3.0"H

### FEATURES

- Stable and accurate
- 2 kHz frequency response
- Rugged, compact, and fully encapsulated
- Includes excitation and amplification
- Easy to use screw terminations