

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