FA1101-A9 SERIES

Accelerometer



- Full-scale Range ±2 g to ±500 g
- Rugged
- Bandwidth from DC
- Over-range Stops
- High Level Differential Output

The FA1101-A9 is a general purpose accelerometer which is especially useful for measuring low-level ranges. Packaged in a rugged metal case, the FA1101-A9 accelerometers are designed for easy handling to suit a wide range of environmental The FA1101-A9 includes conditions. built-in conditioning electronics for direct high level voltage output. It operates from a unipolar voltage supply and provides ±4Vdc differential output. It is ideally suited for mobile test applications. Moreover, mechanical stops ensure over-range protection up to ±2000 g for all ranges.

With many years of experience as a designer and manufacturer of sensors, FGP Sensors has the expertise to customize and/or design sensors for specific uses and testing environments. To meet your needs we also offer complete turnkey systems. Our conditioning electronics can power the sensor, amplify the electronic signal, and display the data digitally. A turnkey measurement system is supplied with matched components, formatted, calibrated and ready for your immediate use.



Characteristics

Measurement Range (g)	±2	±5	±10	±20	±50	±100	±200	±500
Frequency Response ±5% (Hz)	0-100	0-150	0-250	0-400	0-700	0-700	0-700	0-700

Performance specifications subject to change without notice. December 15, 2005

Range (F. S.)

From ±2 to ±500 g (see table on reverse side)

Over-range

±2000 g (0.1 ms)

Accuracy

Non-Linearity : <±2% F.S. Transverse Sensitivity : <3%

Temperature Range

Operating Temperature Range (OTR) : -20 to 80 °C [-4 to 176°F] Compensated Temperature Range (CTR) : 0 to 60 °C [32 to 140 °F] Zero Shift in CTR : <2% F.S. / 108 °F Sensitivity Shift in CTR : <2% of reading / 108 °F

Electrical Characteristics

Supply Voltage	10 to 30 Vdc
F.S. Output	±4 Vdc (±250 mV)
Zero Offset	0 V (±250 mV)
Consumption	<30 mA
Output Impedance	≤90 Ω
Insulation under 50 Vdc	≥100 MΩ
Insulation under 50 Vdc	≥100 MΩ

Electrical Termination

Cable Gland Termination, 2 m [6.5 ft] cable length standard

Mechanical Characteristics

Housing Material : Aluminium alloy Weight w/o cable : <25 grams

Product References

