



FA101 SERIES

Accelerometer

SPECIFICATIONS

- Full Scale Range ±2 g to ±500 g
- DC Response
- Integrated Over-range Stops
- Solid State Reliability
- High Level Output Model with Integrated Amplifier

The FA101 is a general purpose accelerometer which is especially useful for measuring low-level ranges. Packaged in a rugged metal case, the FA101 accelerometers are designed for easy handling to suit a wide range of environmental conditions. They are also available with built-in A1/A2 module, providing internal signal conditioning.

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 arrives with matched components, formatted, calibrated and ready for your immediate use.

Measurement Range (g)	±2	±5	±10	±20	±50	±100	±200	±500
Over-range (g)	400	400	400	400	1000	2000	2000	2000
Frequency Response ±5% (Hz) FA101/FA101-24/FA101-A2	0-200	0-250	0-300	0-500	0-750	0-1000	0-1200	0-1250
Frequency Response ±5% (Hz) FA101-A1	0-100	0-150	0-250	0-400	0-700	0-700	0-700	0-700
Frequency Response ±5% (Hz) FA101-A3	0-200	0-250	0-300	0-500	0-750	0-1000	0-1000	0-1000

CHARACTERISTICS

TECHNICAL SPECIFICATIONS

Range (F. S.)

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

Over-range

From 400 to 2000 g (see table on reverse side)

Accuracy

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

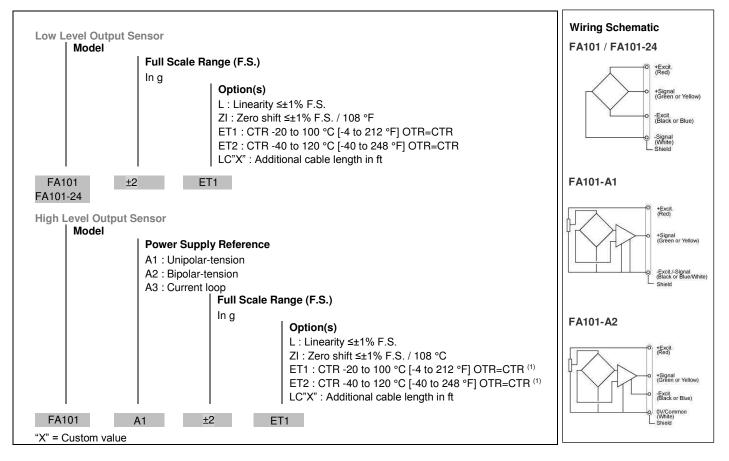
Temperature Range

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

Model Supply Voltage F.S. Output Zero Offset Input Impedance/Consumption	FA101 10 Vdc ±20 to ±100 mV <±10 mV 10 kΩ	FA101-24 14 to 36 Vdc ±20 to ±100 mV <±10 mV 10 kΩ	FA101-A1 10 to 30 Vdc ±2 V (±250 mV) 2,5 V (±250 mV) <30 mA	FA101-A2 ±15 Vdc ±5 V ±5% F.S. 0 V ±5% F.S.	FA101-A3 12 to 36 Vdc 4 to 20 mA 12 mA ±5% F.S.
Output Impedance Insulation under 50 Vdc	<5 kΩ ≥100 MΩ	<5 kΩ ≥100 MΩ	<90 Ω ≥100 MΩ	- ≥100 MΩ	- ≥100 MΩ
Cable Gland Termination, 2 m [6	6.5 ft] cable length st	andard			
Mechanical Characteristics					
Housing Material : Aluminium all Weight w/o cable : <25 grams	оу				

PRODUCT REFERENCES



⁽¹⁾ Option unavailable with version A3

NORTH AMERICA

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