



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

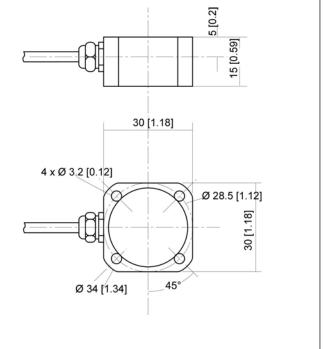
The FA101 is a general purpose accelerometer which is especially useful for measuring low-level ranges. Packaged in a rugged metal case, the FA101 accelerometers are designed for easy handling to suit a wide range of environmental conditions. They are also available with built-in A1/A2 module, providing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

# 0.2]

FA101 SERIES

Accelerometer



## Characteristics

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

Performance specifications subject to change without notice. June 27, 2006

#### 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**

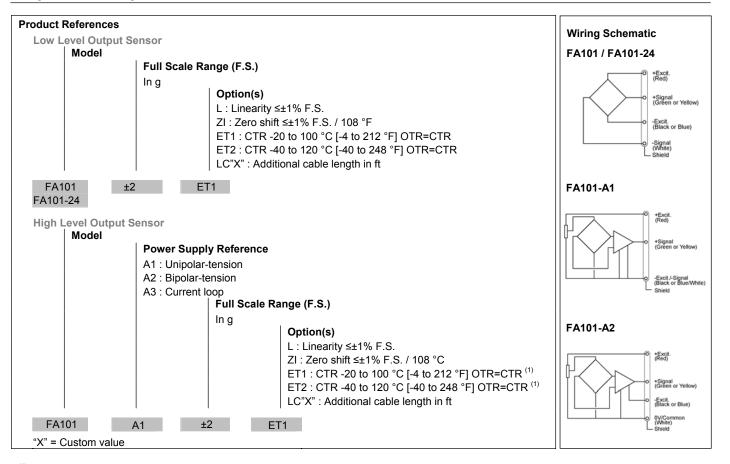
Model	FA101	FA101-24	FA101-A1	FA101-A2	FA101-A3
Supply Voltage	10 Vdc	14 to 36 Vdc	10 to 30 Vdc	±15 Vdc	12 to 36 Vdc
F.S. Output	±20 to ±100 mV	±20 to ±100 mV	±2 V (±250 mV)	±5 V ±5% F.S.	4 to 20 mA
Zero Offset	<±10 mV	<±10 mV	2,5 V (±250 mV)	0 V ±5% F.S.	12 mA ±5% F.S.
Input Impedance/Consumption	10 kΩ	10 kΩ	<30 mA	-	-
Output Impedance	<5 kΩ	<5 kΩ	<90 Ω	-	-
Insulation under 50 Vdc	≥100 MΩ	≥100 MΩ	≥100 MΩ	≥100 MΩ	≥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



<sup>(1)</sup>Option unavailable with version A3

Performance specifications nominal and subject to change without notice. Current specifications see web-site. June 27, 2006

# FGP Sensors, Inc. A GS Sensors Company