

- Full Scale Range ±2 to ±500 g
- Industry Standard 20 mm [0.79 inch] Cube
- Bandwidth from DC
- Over-range Stops
- Integrated Amplifier

The FA1144 is an industry standard accelerometer which is especially useful for applications which require low frequency response and minimum mass loading. Packaged in a rugged metal case, this accelerometer is designed for easy mechanical mounting and maintenance. The FA1144 comprises an internal amplifier for direct high level voltage output. It operates from a unipolar voltage supply. Model FA1144-A1 offers ±2Vdc F.S. output with a zero offset of 2.5Vdc, whereas Model FA1144-A9 offers differential ±4Vdc F.S. output. Mechanical stops provide over-range protection up to ±2000 g for all ranges.

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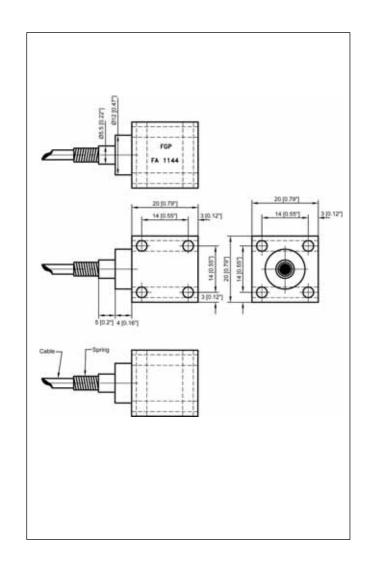
To meet your needs we also offer complete turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

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

FA1144 SERIES

Miniature Accelerometer



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Technical Specifications

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% F.S.

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

Reference FA1144-A1 FA1144-A9 Supply Voltage 10 to 30 Vdc 10 to 30 Vdc F.S. Output ±2 Vdc (±250 mV) ±4 Vdc (±250 mV) Zero Offset 2.5 Vdc (±250 mV) 0 Vdc (±250 mV) Consumption <30 mA <30 mA Output Impedance <90 Ω <90 Ω Insulation under 50Vdc ≥100 MΩ ≥100 MΩ

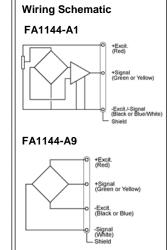
Electrical Termination

Shielded cable standard length 2 m [6.5 ft] with strain relief spring

Mechanical Characteristics

Housing Material : Aluminium alloy Weight w/o cable : <30 grams

Product References High Level Output Sensor Model Full Scale Range (F.S.) In g Option(s) L: Linearity <±1% F.S. ZI: Zero shift ≤±1% F.S. / 108 °F ET1: CTR -20 to 100 °C [-4 to 212 °F] OTR=CTR ET2: CTR -40 to 120 °C [-40 to 248 °F] OTR=CTR ET5: CTR -40 to 80 °C [-40 to 176 °F] OTR=CTR LC"X": Additional cable length in ft FA1144 50 ET1 "X" = Custom value



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Performance specifications nominal and subject to change without notice. Current specifications see web-site. January 12, 2006