

# FA1144 SERIES

Miniature Accelerometer



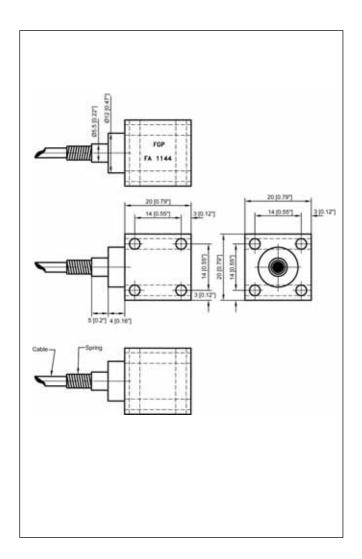
- Full Scale Range ±2 to ±500 g
- Industry Standard 20 mm [0.79 inch] Cube
- Bandwidth from DC
- Over-range Stops
- Integrated Amplifier

The FA1144 is an industry standard size 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

Performance specifications subject to change without notice. January 12, 2006

# **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**

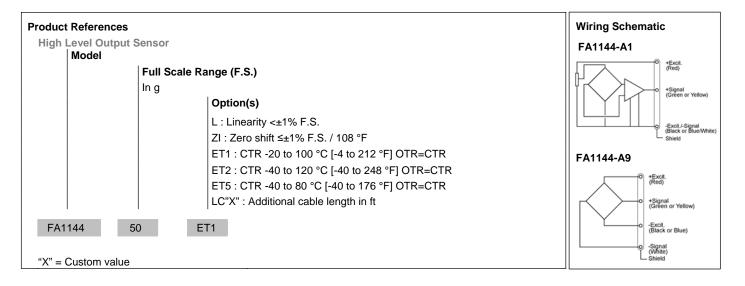
Reference	<b>FA1144-A1</b>	<b>FA1144-A9</b>
Supply Voltage	10 to 30 Vdc	10 to 30 Vdc
F.S. Output	±2 Vdc (±250 mV)	±4 Vdc (±250 mV)
Zero Offset	2.5 Vdc (±250 mV)	0 Vdc (±250 mV)
Consumption	<30 mA	<30 mA
Output Impedance	<90 Ω	<90 Ω
Insulation under 50Vdc	≥100 MΩ	≥100 MΩ
Insulation under 50Vdc	2100 MIQ	2100 1002

## **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



# 北京汇润科贸有限公司

电话:+86 010 5601 8989

+86 010 5601 7979

传真:+86 010 5885 72
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邮箱:<u>sales@aq315.com</u>

http://www.aq315.com

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