



626M21AQT INDUSTRIAL ICP® ACCELEROMETER

Performance

	ENGLISH	SI	
Sensitivity (± 5%)	500 mV/g	51 mV (m/s ²)	[2]
Measurement Range	± 10 g	± 98 m/s ²	
Frequency Range (± 5%)	35 to 120,000 cpm	0.5 to 2000 Hz	[3]
Frequency Range (± 10%)	22 to 240,000 cpm	0.37 to 4000 Hz	
Frequency Range (± 3 dB)	12 to 360,000 cpm	0.2 to 6000 Hz	
Resonant Frequency	720 kcpm	12 kHz	[1]
Broadband Resolution (1 to 10,000 Hz)	20 µg	196 µm/s ²	[1]
Non-Linearity	± 1%	± 1%	[4]
Transverse Sensitivity	≤ 7%	≤ 7%	

Environmental

Overload Limit (Shock)	2500 g pk	24,525 m/s ² pk
Temperature Range	-65 to +250 °F	-54 to +121 °C
Temperature Response	See Graph	See Graph
Enclosure Rating	IP68	IP68

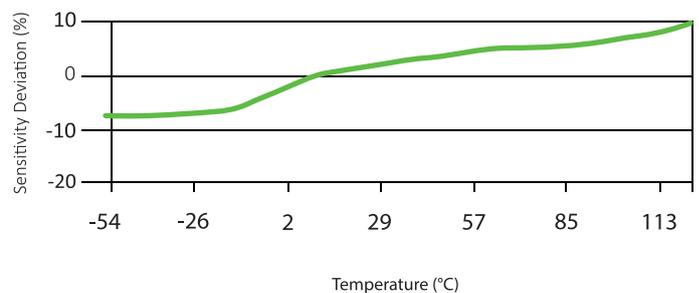
Electrical

Settling Time (within 1% of bias)	≤ 3.0 sec	≤ 3.0 sec	
Discharge Time Constant	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 100 ohm	< 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	0.9 µg/√Hz	8.8 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	0.7 µg/√Hz	7.0 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	0.3 µg/√Hz	3.1 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	> 10 ⁸ ohm	> 10 ⁸ ohm	

Physical

Size (Hex x Height)	1 3/16 in x 2 3/16 in	30.2 mm x 55.6 mm	
Weight	7.0 oz	199 gm	
Mounting Thread	1/4-28 UNF	Not Applicable	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	

Typical Sensitivity Deviation vs Temperature



NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] The high frequency tolerance is accurate within ± 10% of the specified frequency.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.



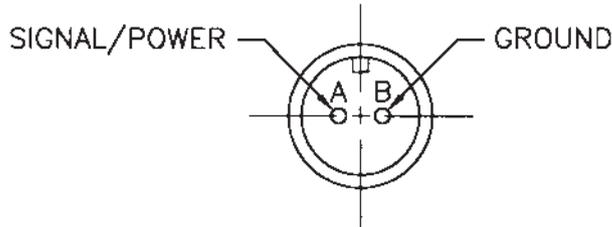


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TOP VIEW OF CONNECTOR

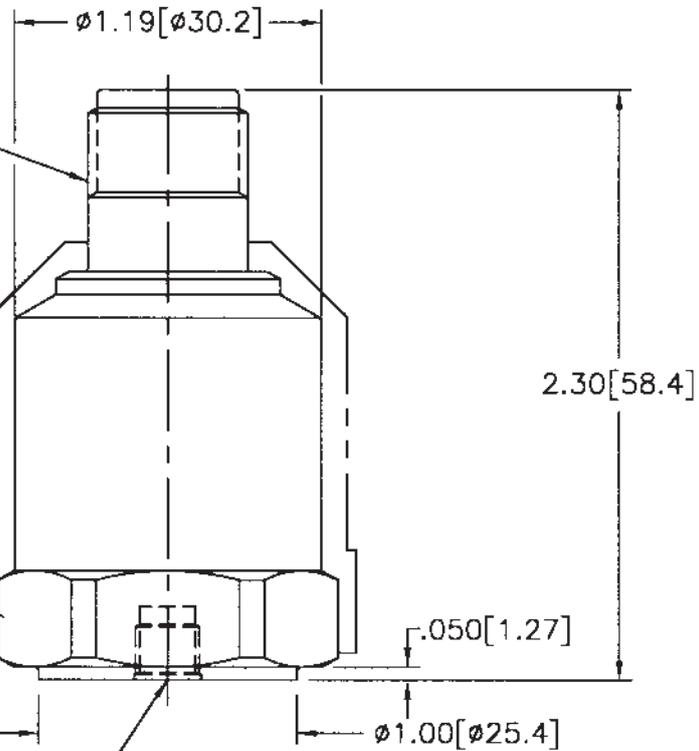


ELECTRICAL CONNECTOR
5/8-24 UNEF-2A
2-PIN (MIL-C-5015)

PROTECTIVE/THERMAL
JACKET
MODEL 085A31
(SUPPLIED)

1 3/16[30] HEX

1/4-28 UNF-2B
X .20[5.1] ▽



B

B

A

A

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

TITLE

DIMENSIONS IN INCHES

DIMENSIONS IN MILLIMETERS
[IN BRACKETS]

DECIMALS XX ±.03
XXX ±.010

DECIMALS X ± 0.8
XX ± 0.25

ANGLES ± 2 DEGREES

ANGLES ± 2 DEGREES

FILLETS AND RADII
.003 - .005

FILLETS AND RADII
0.07 - 0.13

OUTLINE DRAWING
MODEL
ACCELEROMETER



E-MAIL: sales@aqtech.com

CODE
IDENT. NO.

DWG. NO.

SCALE: 1.33X

SHEET 1 OF 1

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