

Model Number 604M32	TRIAxIAL INDUSTRIAL ICP® ACCELEROMETER			Revision: NR ECN #: 55321
Performance		ENGLISH	SI	OPTIONAL VERSIONS
Sensitivity(± 20 %)		100 mV/g	10.2 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range		± 50 g	± 490 m/s ²	
Frequency Range(± 3 dB)		30 to 300,000 cpm	0.5 to 5,000 Hz	
Resonant Frequency		600 kcpm	10 kHz	
Broadband Resolution(1 to 10,000 Hz)		350 µg	3,434 µm/sec ²	M - Metric Mount Supplied Accessory: Model M081A68 Captive mounting bolt M6 x 1 (1)
Non-Linearity		± 1 %	± 1 %	
Transverse Sensitivity		≤ 5 %	≤ 5 %	
Environmental				
Overload Limit(Shock)		5,000 g pk	49,050 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)		≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant		≥ 0.3 sec	≥ 0.3 sec	
Excitation Voltage		18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation		2 to 20 mA	2 to 20 mA	
Output Impedance		< 150 Ohm	< 150 Ohm	
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)		8 µg/√Hz	78.5 (µm/sec ²)/√Hz	
Spectral Noise(100 Hz)		5 µg/√Hz	49.1 (µm/sec ²)/√Hz	
Spectral Noise(1 kHz)		4 µg/√Hz	39.2 (µm/sec ²)/√Hz	
Electrical Isolation(Case)		> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical				
Size (Diameter x Height)		1.38 in x 1.00 in	35.1 mm x 25.4 mm	
Weight(without cable)		4.0 oz	113.3 gm	
Mounting Thread		1/4-28 UNF	Not Applicable	
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		Sealed Integral Cable	Sealed Integral Cable	
Electrical Connection Position		Side	Side	
Electrical Connections(Red)		X axis	X axis	
Electrical Connections(Green)		Y axis	Y axis	
Electrical Connections(White)		Z axis	Z axis	
Electrical Connections(Black)		Ground	Ground	
Cable Length		10 ft	3.0 m	
Cable Type		Polyurethane	Polyurethane	

CE

UK

CA

[8]

Typical Sensitivity Deviation vs Temperature

Sensitivity Deviation(%)

Temperature (°F)

All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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NOTES:				
[1]Conversion Factor 1g = 9.81 m/s ² .				
[2]Typical.				
[3]Zero-based, least-squares, straight line method.				
[4]1/4-28 has no equivalent in S.I. units.				
[5]Sensor and Cable hydrotested without connector to 500 psi [3.3 MPa].				
[6]Cable length varies, as specified by model number. Maximum cable length for this model is 300 ft (90 m).				
[7]Twisted shielded 4-conductor cable.				
[8]See PCB Declaration of Conformance PS023 for details.				

SUPPLIED ACCESSORIES:				
Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)				
Model ACS-2T NIST Traceable Single Point Calibration at 100 Hz for Each Axis (1)				

Entered: ND	Engineer: GD	Sales: JL	Approved: BAM	Spec Number:
Date: 11/05/2024	Date: 11/05/2024	Date: 11/05/2024	Date: 11/05/2024	79847

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