Model Number 623C61		ACCE	LEROMETER,	INDUS	TRIAL, ICP®
Performance		ENGLISH	SI		Optional Versions
Measurement Range		±50 g	$\pm 490 \text{ m/s}^2$		for standard model of
Frequency Range (±5 %)		144 to 480000 cpm	2.4 to 8000 Hz	[2]	LB - Low Bias Volt
Frequency Range (±10 %)		102 to 600000 cpm	1.7 to 10000 Hz		Output Bias Volta
Frequency Range	e (±3 dB)	48 to 900000 cpm	0.8 to 15000 Hz		Excitation Voltag
Resonant Freque		2400 kcpm	40 kHz	[1]	Measurement Ra
Broadband Reso	lution (1 to 10000 Hz)	100 µg	981 µm/sec ²	[1]	M - Metric Mount
Non-Linearity		±1 %	±1 %	[3]	Supplied Access
Transverse Sens	itivity	≤5 %	≤5 %		081A40
Environmental					Notes
Overload Limit (Shock)	5000 g pk	49050 m/s² pk		[1] Typical.
Temperature Rar	nge	-65 to +250 °F	-54 to +121 °C		[2] The high f
Enclosure Rating		IP68	IP68		[3] Zero-base
Electrical					[4] 1/4-28 has
Settling Time (within 1% of bias)		≤2.0 sec	≤2.0 sec		[5] Stainless
Discharge Time (Constant	≥0.2 sec	≥0.2 sec		[6] See PCB
Excitation Voltage	Э	18 to 28 VDC	18 to 28 VDC		
Constant Current	Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	e	<150 Ohm	<150 Ohm		Supplied Access
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC		081A40 Mounting
Spectral Noise (10 Hz)		7.0 μg/√Hz	68.7 (µm/sec²/√Hz	[1]	ICS-1 NIST-tracea
Spectral Noise (100 Hz)		2.8 µg/√Hz	27.5 (µm/sec²/√Hz	[1]	upper 5% frequenc
Spectral Noise (1 kHz)	0.9 µg/√Hz	8.8 (µm/sec²/√Hz	[1]	
Electrical Protecti	ion	RFI/ESD	`RFI/ESD		
Electrical Isolation (Case)		>10 ⁸ Ohm	>10 ⁸ Ohm		
Physical	` '				
Size (Hex x Height)		11/16 in x 4.4 in	17.5 mm x 112 mm		
Weight (without cable)		1.80 oz	51 gm		
Mounting Thread		1/4-28 Female	Not Applicable	[4]	
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		Integral Armored	Integral Armored		
		Cable	Cable		
Electrical Connection Position		Тор	Тор		
Cable Length		10 ft	3.0 m		
Cable Type		Polyurethane	Polyurethane	[5]	

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision C

ECN #: 14824

LB - Low Bias Voltage

Output Bias Voltage 6 to 8 VDC 6 to 8 VDC Excitation Voltage 12 to 28 VDC 12 to 28 VDC Measurement Range ±343 m/s² ±35 g

Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

Notes

- [1] Typical.
- [2] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [3] Zero-based, least-squares, straight line method.
- [4] 1/4-28 has no equivalent in S.I. units.
- [5] Stainless steel armor jacket over twisted shielded pair.
- [6] See PCB Declaration of Conformance PS023 for details.

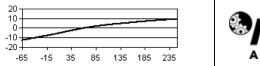
Supplied Accessories

081A40 Mounting Stud (1)

ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ()

	07/23/1999	07/23/1999	07
235	A PCB PIE	SENSO/	25 DIV

Entered: MWS	Engineer: HJB	Sales: NJF	Spec Number:
Date:	Date:	Date:	7982
07/23/1999	07/23/1999	07/26/1999	



Typical Sensitivity Deviation vs Temperature

Temperature (°F)

3425 Walden Avenue Depew. NY 14043 UNITED STATES Phone: 716-684-0003 Fax: 716-684-3823 E-mail: imi@pcb.com

Web site: www.imi-sensors.com



All specifications are at room temperature unless otherwise specified.	ii
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notice.	
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