

Model M626B02

Low Frequency Industrial ICP® Accelerometer

Installation and Operating Manual

For assistance with the operation of this product, contact PCB Piezotronics, Inc.

Toll-free: 800-959-4464 24-hour SensorLine: 716-684-0001 Fax: 716-684-3823 E-mail: imi@pcb.com Web: www.imi-sensors.com







Repair and Maintenance

PCB guarantees Total Customer Satisfaction through its "Lifetime Warranty Plus" on all Platinum Stock Products sold by PCB and through its limited warranties on all other PCB Stock, Standard and Special products. Due to the sophisticated nature of our sensors and associated instrumentation, field servicing and repair is not recommended and, if attempted, will void the factory warranty.

Beyond routine calibration and battery replacements where applicable, our products require no user maintenance. Clean electrical connectors, housings, and mounting surfaces with solutions and techniques that will not harm the material of construction. Observe caution when using liquids near devices that are not hermetically sealed. Such devices should only be wiped with a dampened cloth—never saturated or submerged.

In the event that equipment becomes damaged or ceases to operate, our Application Engineers are here to support your troubleshooting efforts 24 hours a day, 7 days a week. Call or email with model and serial number as well as a brief description of the problem.

Calibration

Routine calibration of sensors and associated instrumentation is necessary to maintain measurement accuracy. We recommend calibrating on an annual basis, after exposure to any extreme environmental influence, or prior to any critical test.

PCB Piezotronics is an ISO-9001 certified company whose calibration services are accredited by A2LA to ISO/IEC 17025, with full traceability to SI through N.I.S.T. In addition to our standard calibration services, we also offer specialized tests, including: sensitivity at elevated or cryogenic temperatures, phase response, extended high or low frequency response, extended range, leak testing, hydrostatic pressure testing, and others. For more information, contact your local PCB Piezotronics distributor, sales representative, or factory customer service representative.

Returning Equipment

If factory repair is required, our representatives will provide you with a Return Material Authorization (RMA) number, which we use to reference any information you have already provided and expedite the repair process. This number should be clearly marked on the outside of all returned package(s) and on any packing list(s) accompanying the shipment.

Contact Information

PCB Piezotronics, Inc. 3425 Walden Ave. Depew, NY14043 USA Toll-free: (800) 828-8840 24-hour SensorLine: (716) 684-0001 General inquiries: <u>info@pcb.com</u> Repair inquiries: <u>rma@pcb.com</u>

For a complete list of distributors, global offices and sales representatives, visit our website, <u>www.pcb.com</u>.

Safety Considerations

This product is intended for use by qualified personnel who recognize shock hazards and are familiar with the precautions required to avoid injury. While our equipment is designed with user safety in mind, the protection provided by the equipment may be impaired if equipment is used in a manner not specified by this manual.

Discontinue use and contact our 24-Hour Sensorline if:

- Assistance is needed to safely operate equipment
- Damage is visible or suspected
- Equipment fails or malfunctions

For complete equipment ratings, refer to the enclosed specification sheet for your product.

Definition of Terms and Symbols

The following symbols may be used in this manual:



DANGER

Indicates an immediate hazardous situation, which, if not avoided, may result in death or serious injury.



CAUTION

Refers to hazards that could damage the instrument.



NOTE

Indicates tips, recommendations and important information. The notes simplify processes and contain additional information on particular operating steps.

The following symbols may be found on the equipment described in this manual:



This symbol on the unit indicates that high voltage may be present. Use standard safety precautions to avoid personal contact with this voltage.



This symbol on the unit indicates that the user should refer to the operating instructions located in the manual.



This symbol indicates safety, earth ground.



PCB工业监视和测量设备 - 中国RoHS2公布表 PCB Industrial Monitoring and Measuring Equipment - China RoHS 2 Disclosure Table

					有害物 质	
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴 联苯 (PBB)	多溴二苯 醚 (PBDE)
住房	0	0	0	0	0	0
PCB板	Х	0	0	0	0	0
电气连接 器	0	0	0	0	0	0
压电晶 体	х	0	0	0	0	0
环氧	0	0	0	0	0	0
铁氟龙	0	0	0	0	0	0
电子	0	0	0	0	0	0
厚膜基板	0	0	Х	0	0	0
电线	0	0	0	0	0	0
电缆	Х	0	0	0	0	0
塑料	0	0	0	0	0	0
焊接	Х	0	0	0	0	0
铜合金 /黄 铜	Х	0	0	0	0	0
本表格依据 SJ/T 1	L 1364 的 规定	E编制。				
0:表示该有害物	勿质在该部件	所有均同	気材料中	的含量均在 GB/T 26	572 规定的限量要求以	下。
				材料中的含量超出(3目前由于允许的豁	6B/T 26572 规定的限量 免。	要求。

CHINA ROHS COMPLIANCE

Component Name			Haz	zardous Substance	s	
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI Compounds (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Housing	0	0	0	0	0	0
PCB Board	Х	0	0	0	0	0
Electrical Connectors	0	0	0	0	0	0
Piezoelectric Crystals	Х	0	0	0	0	0
Ероху	0	0	0	0	0	0
Teflon	0	0	0	0	0	0
Electronics	0	0	0	0	0	0
Thick Film Substrate	0	0	Х	0	0	0
Wires	0	0	0	0	0	0
Cables	Х	0	0	0	0	0
Plastic	0	0	0	0	0	0
Solder	Х	0	0	0	0	0
Copper Alloy/Brass	Х	0	0	0	0	0

This table is prepared in accordance with the provisions of SJ/T 11364.

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement of GB/T 26572.

Lead is present due to allowed exemption in Annex III or Annex IV of the European RoHS Directive 2011/65/EU.

PerformanceENGLISH 500 mVgSensitivity (\pm 5 %)500 mVgSensitivity (\pm 5 %)500 mVgFrequency Range (\pm 5 %) \pm 10 gFrequency Range (\pm 5 %)22 to 240,000 cpmFrequency Range (\pm 10 %)22 to 240,000 cpmFrequency Range (\pm 10 %)22 to 240,000 cpmResonant Frequency Range (\pm 10 %)22 to 20 ugResonant Frequency Range (\pm 10 %)20 ugNon-Linearity20 ugResonant Equency Range2500 g pkNon-Linearity2500 g pkFerture Range23 0 secNorriconmental2500 g pkOverload Limit (Shock) \pm 1.0 %Enclosure RatingEnclosure RatingEnclosure Rating23 0 secSettling Time (within 1% of bias) \geq 3.0 secSettling Time (within 1% of bias) \geq 3.0 secDischarge Time Constant \geq 10 %Enclosure RatingEnclosure RatingEnclosure Rating \geq 10 %Settling Time (within 1% of bias) \geq 10 %Settling Time (within 1% of bias) \geq 3.0 secDischarge Time Constant \geq 10 %Settling Time (within 1% of bias) \geq 10 %	<u>SI</u> 51 mV/(m/s ²) ± 98 m/s ² 0.5 to 2000 Hz	
	51 mV/(m/s ²) ± 98 m/s ² 0.5 to 2000 Hz	
	51 mV/(m/s ⁻) ± 98 m/s ² 0.5 to 2000 Hz	
	± 98 m/s ⁺ 0.5 to 2000 Hz	U-PUTIONAL VERSIONS NAVE IDENTICAL SPECIFICATIONS AND ACCESSORIES AS INSTED FOR THE STANDARD MODEL
	0.0 TO 2000 HZ	
		loj M - Metric Mount
	0.2 to 6000 Hz	Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model
	12 kHz	[1] 081A40
% of bias) nt tition se)	196 µm/s ²	
6 of bias) nt tition se)	±1%	[4]
% of bias) nt tition se)	≤7%	
% of bias) nt tition se)	c	
ре onse anstant Excitation B D Hz) D Hz) (Case) (Case)	24,525 m/s ² pk	
onse ain 1% of bias) anstant Eccitation B Hz) 00 Hz) (Case)	-54 to +121 °C	
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nin 1% of bias) anstant Excitation Be 0 Hz) kHz) (Case)	IP68	
constant Excitation Be 0 Hz) (Case) (Case)		-
contaction Fe D Hz) D0 Hz) KHz) (Case)		
Excitation le 0 Hz) 00 Hz) (Case) (Case)		[4] Zero-based, least-squares, straight line method.
е 0 Hz) 0 Hz) KHz) (Case)	2 to 20 mA	[9] 1/4-20 Has NO Equivalent III 3.1. UTILS. [6] See PCB Declaration of Conformance PS023 for details
e 0 Hz) 00 Hz KHz) (Case)		
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â	8 /1.m/c2///H=	111 III
â	7.0 (June 2)//H=	
(e)		
	3.1 (µm/s ⁻)/vHz	
	>10° onms	
λ	30.2 ח	
Å		
Å	Not Applicable	
у	2./ to 6.8 N-m	
	Ceramic	
	Steirlees Steel	
	Violdod Lormotio	
al Connector		
1 Position		
	L)	SUPPLIED ACCESSORIES:
Typical Sensiti	ivity Deviation vs Temperature	Model 081A40 Mounting Stud (1)
	-	Model US5A31 Protective Thermal Jacket (1) Model ICS-1 NIST-traceable single-axis amoliticule response calibration from 600 com (10 Hz) to
		Industrial ICP® Accelerometer
	207 207 20	
CI- CP-	8	Date: $\int \nabla f(X, \Lambda) Date: \langle f(X, \delta) Date: \langle$
Temp	Temperature ("F)	
All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specific	de specifications without notice	Phone: 800-959-4464
ICP® is a registered trademark of PCB Group, Inc.		ICS DN.

