Model 7101A Accelerometer



[10.16]

Ø.400

[2.39] Ø.094 THRU

IEPE Accelerometer Wide Bandwidth to 10kHz M3 Side Connector Miniature, Lightweight (2.4gm)

The Model 7101A is a miniature, high performance IEPE accelerometer available in \pm 50g to \pm 1000g dynamic ranges. The accelerometer is designed for high frequency vibration and shock measurements and offers a wide bandwidth to >10kHz utilizing stable piezo-ceramic crystals in annular shear mode. The model 7101A features a hermetically sealed titanium housing and the popular through hole mount configuration. The standard operating temperature range extends from -55°C to +125°C.



dimensions

15.2

[6.35] .250

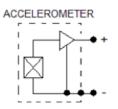
FEATURES

- ±50g to ±1000g Dynamic Range
- Wide bandwidth up to 10kHz
- Welded Construction, Titanium
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- Miniature, Through-Hole Mount

COAXIAL RECEPTACLE M3 METRIC THREAD [4.6] .18 [2.5] .010 [8.86] (B.86] (B.86] (B.86] (B.86] (B.86] (B.86] (B.80] (B.80]

APPLICATIONS

- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications
- General Purpose Usage



(6

Model 7101A Accelerometer



performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

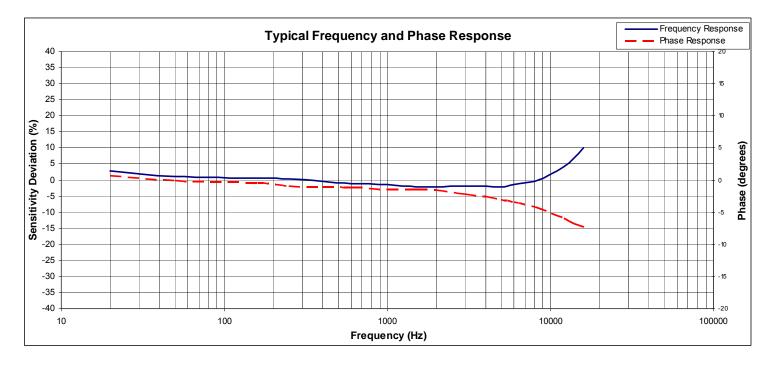
Parameters						
DYNAMIC Range (g)	±50	±500	±1000		Notes	
Sensitivity (mV/g)	100	10	5		±10%	
Frequency Response (Hz)	1-8000	1-8000	1-8000		±5%	
Frequency Response (Hz)	0.5-10000	0.5-10000	0.5-10000		±1dB	
Natural Frequency (Hz)	>50000	>50000	>50000			
Non-Linearity (%FSO)	±1	±1	±1			
Transverse Sensitivity (%)	<5	<5	<5			
Shock Limit (g)	5000	5000	5000			
ELECTRICAL						
Compliance Voltage (Vdc)	18 to 30	18 to 30	18 to 30			
Excitation Current (mA)	2 to 10	2 to 10	2 to 10			
Bias Voltage (Vdc)	8 to 12	8 to 12	8 to 12		Room Temperature	
Bias Voltage (Vdc)	6 to 14	6 to 14	6 to 14		-55 to +125°C	
Output Impedance (Ω)	<100	<100	<100			
Full Scale Output Voltage (V)) ±5 0.0004	±5 0.0008	±5 0.001		Broadband 1Hz to 10kHz	
Residual Noise (g RMS) Discharge Time Constant (se		0.0006	0.001			
Ground Isolation						
	Isolated inc					
ENVIRONMENTAL						
Temperature Response (%)		I Temperature Response Curve				
Operating Temperature (°C)	-55 to +125					
Storage Temperature (°C)	-55 to +125 Hermetically Sealed					
Humidity	Hermetical	ly Sealed				
PHYSICAL						
Sensing Element	Ceramic (shear mode)					
Case Material	Titanium					
Electrical Connector	M3 Coaxial Receptacle					
Weight (grams)						
Mounting	#2-56 Insulated Mounting Screw (included)					
Mounting Torque	5 lb-in (0.6 N-m)					
Calibration supplied:	CS-FREQ-0100	FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit				
Supplied accessories:	AC-A03230	A03230 1x #2-56 Insulated Mounting Screw Assembly (7/16 inch length)				
Optional accessories:	311-XXX Cable Assembly, M3 to BNC (XXX designates length in inches, 10ft standard)					

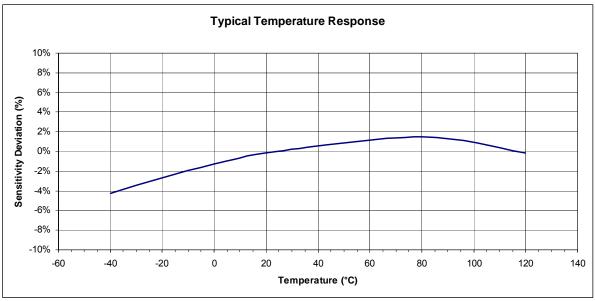
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.



Model 7101A Accelerometer

performance specifications



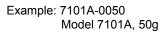


ordering info

PART NUMBERING Model Number+Range

7101A-GGGG

Range (0050 is 50g) 1



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 7266 邮箱:sales@aq315.com http://www.aq315.com