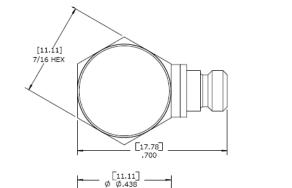
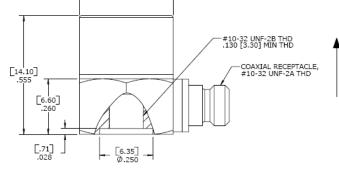


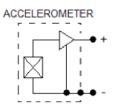




DIMENSIONS







MODEL 7104A ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- Wide Bandwidth to >10kHz
- 10-32 Side Connector
- Stud Mount, Hermetic

The Model 7104A is a high performance IEPE accelerometer available in ± 50 g to ± 1000 g dynamic ranges. The stud mounted accelerometer features a welded hermetic construction with a side mount connector. The model 7104A incorporates stable piezo-ceramic crystals in annular shear mode which provide a flat frequency response up to >10kHz. The standard operating temperature range extends from -55°C to +125°C.

FEATURES

- ±50g to ±1000g Dynamic Range
- Wide bandwidth up to >10kHz
- Welded Construction
- Hermetically Sealed
- Annular Shear Mode
- Stable Temperature Response
- TEDS Option

APPLICATIONS

ACCELERATION

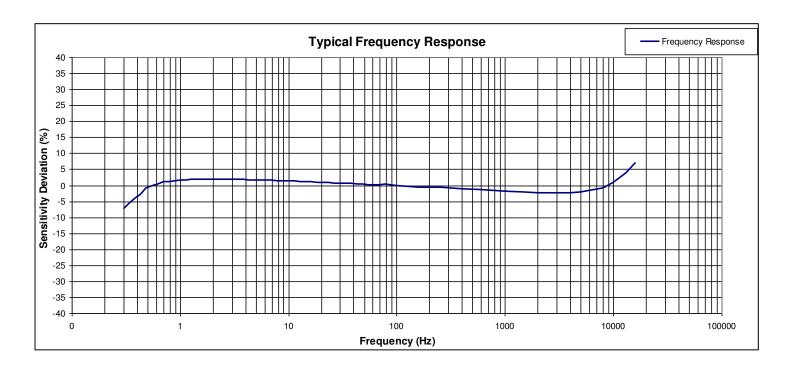
- Vibration & Shock Monitoring
- Laboratory Testing
- Modal Applications
- High Frequency Applications
- General Purpose Usage

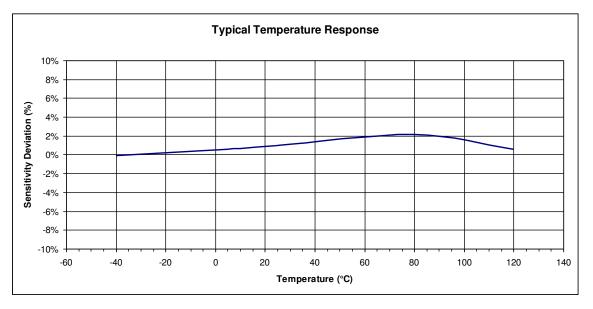
PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±50 100 0.5-6000 0.3-10000 >50000 ±1 <5 5000	±100 50 0.5-6000 0.3-10000 >50000 ±1 <5 5000	±500 10 0.5-8000 0.3-10000 >50000 ±1 <5 5000	±1000 5 0.5-8000 0.3-10000 >50000 ±1 <5 5000	Notes ±10% ±5% ±1dB	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) ¹ Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (' Residual Noise (g RMS) Discharge Time Constant (s Grounding	0.0004	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0005	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0008	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 0.0014	See Note 1 Room Temperature -55 to +125°C Broadband 1Hz to 10kHz	
ENVIRONMENTALTemperature Response (%)See Typical TOperating Temperature (°C)-55 to +125Storage Temperature (°C)-55 to +125HumidityHermetically S		·	esponse Curve			
PHYSICAL Sensing Element Case Material Electrical Connector Weight (grams) Mounting Mounting Torque	Ceramic (shear mode) Stainless Steel 10-32 Coaxial Receptacle 8.6 #10-32 to #10-32 Mounting Stud (included) 18 lb-in (2.0 N-m)					
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Response Limit						
Supplied accessories: AC-D02298		10-32 to 10-32 mounting stud				
Optional accessories:	ptional accessories: 310-XXX 314-XXX AC-A03470 AC-A03471 AC-A03500 161A		Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard) Cable Assembly, 10-32 to BNC (XXX designates length in inches, 10ft standard) Adhesive Mounting Adaptor Magnetic Mounting Adaptor Isolated Mounting Adaptor (#10-32 to M5x0.8 thread) 4-Channel PE & IEPE Signal Conditioner, Bench Top			

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.





ORDERING INFORMATION

PART NUMBERING Model Number+Range

7104AT-GGGG

I_____ Range (0050 is 50g)

_____ TEDS compliant to IEEE 1451.4 when 'T' option is included

Example: 7104A-0050 Model 7104A, 50g

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company 1000 Lucas Way Hampton, VA 23666 Sales and Customer Service Tel: +1-800-745-8008 or +1-757-766-1500 Fax: +1-757-766-4297 t&m@meas-spec.com

EUROPE

MEAS France SAS a TE Connectivity Company 26 Rue des Dames F78340 Les Clayes-sous-Bois France Sales and Customer Service Tel: +33 (0) 1 79 33 00 Fax: +33(0)1 34 81 03 59 t&m@meas-spec.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Sales and Customer Service Tel: +86 755 3330 5088 Fax: +86 755 3330 5099 t&m@meas-spec.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.