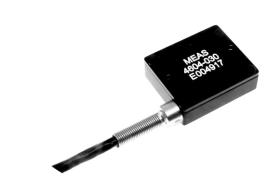


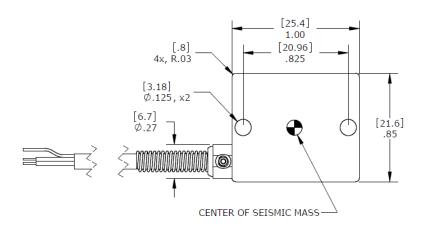
🗸 (E

Advanced Temp Compensation Robust Strain Relief Amplified, Signal Conditioned DC Response, Ultra-Stable

The Model 4604 is a rugged, low-profile MEMS accelerometer designed for both static and dynamic applications. The accelerometer is available in ranges from ±2 to ±200g and offers outstanding thermal performance. The output is signal conditioned with exceptional long term stability. The model 4604 incorporates a PFA insulated cable with a rugged strain relief designed for demanding applications.



dimensions

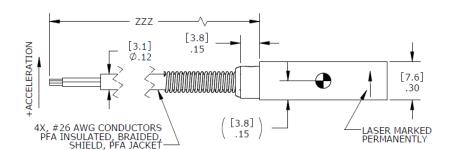


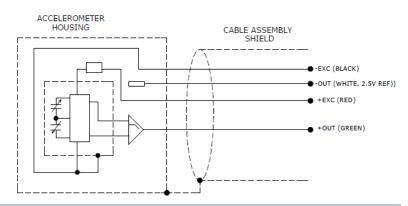
FEATURES

- ±2g to ±200g Dynamic Range
- Amplified Output
- Low Power Consumption
- Gas Damping
- #26 AWG PFA Cable
- DC, Low Frequency Response
- 8 to 36Vdc Excitation Voltage

APPLICATIONS

- Flight Testing
- Flutter and Nacelle Vibrations
- Road Vehicle Testing
- Structural Testing
- Test and Instrumentation
- Transportation





Model 4604 Rev D



Model 4604 Accelerometer

performance specifications

All values are typical at +24°C, 80Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

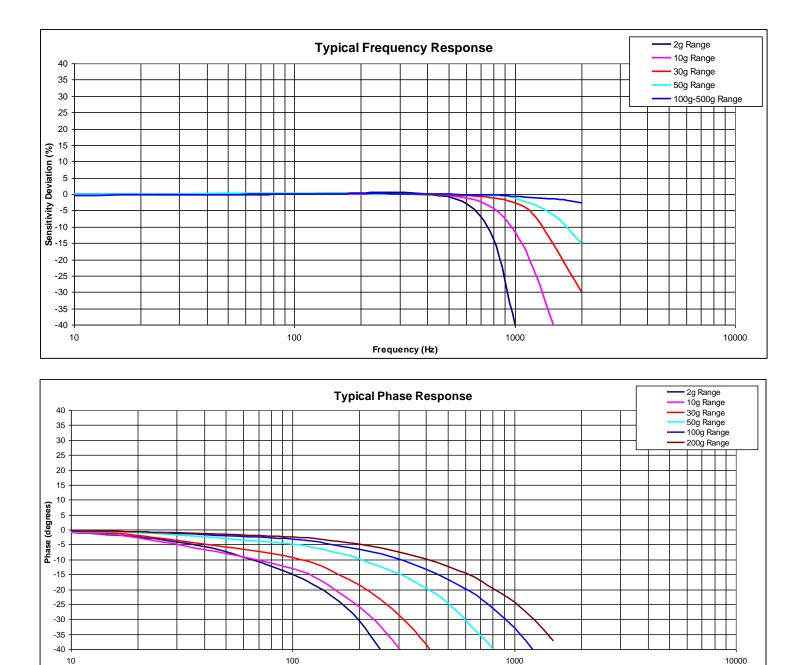
Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g) Residual Noise (µV RMS) Spectral Noise (µg/√Hz)	1 0 7 ± 0 0 5 6	0-250 700 ±0.5 <2 0.7 5000	±5 400 0-700 800 ±0.5 <2 0.7 5000 750 71	±10 200 0-1000 ±0.5 <2 0.7 5000 800 126	±30 67 0-1000 1500 ±0.5 <2 0.7 5000 800 378	±50 40 0-1000 4000 ±0.5 <2 0.7 5000 800 632	±100 20 0-1000 6000 ±0.5 <2 0.7 5000 800 1265	±200 10 0-1000 8000 ±0.5 <2 0.7 5000 800 2530	Notes ±10% ±5% ¹ <1 Typical Passband Passband
ELECTRICAL Zero Acceleration Output (m Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Full Scale Output Voltage (V Output Resistance (Ω) Insulation Resistance (MΩ) Turn On Time (msec) Ground Isolation	/ 8 < 2 2 () ± < > < <	±50 8 to 36 <5 2.5 ±2 <100 >100 <100 Isolated fron	n Mounting :	Surface					Differential @100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity (Active Element & Electronics) Humidity (Housing)		±0.004 ±0.010 •55 to 125 •55 to 125 Hermetically Epoxy Seale							Typical Typical
PHYSICAL Case Material Cable Weight (grams) Mounting Mounting Torque		Anodized Aluminum 4x, #26 AWG Conductors, PFA Insulated, Braided Shield, PFA Jacket 10 2x #4 or M3 Screws 6 Ib-in (0.7 N-m)							
Calibration supplied:	CS-FREQ-0100	0 NIST	NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Response Limit ¹						
Supplied accessories:	AC-A02285	2x #4-	2x #4-40 (7/16 length) Socket Head Cap Screw and Washer						
Optional accessories:	AC-D02669 121		al Mounting Innel Precisi		se DC Amplit	fier			

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 4604 Accelerometer

performance specifications



Frequency (Hz)

ordering info

PART NUMBERING

Model Number+Range+Cable Length

4604-GGG-ZZZ-C



Example: 4604-010-060-C Model 4604, 10g, 060" (5ft) Cable

Model 4604 Rev D

32 Journey Ste. 150 Aliso Viejo, CA 92656

<u>www.meas-spec.com</u> 949-716-5377 07/22/2014