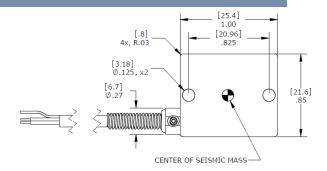
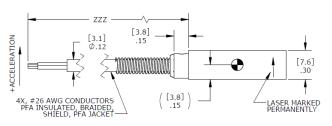
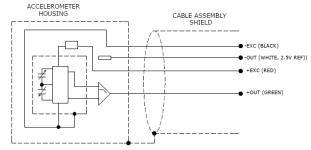




DIMENSIONS







MODEL 4604 ACCELEROMETER

SPECIFICATIONS

- 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

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

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.

Parameters								
DYNAMIC								Notes
Range (g)	±2	±5	±10	±30	±50	±100	±200	
Sensitivity (mV/g)	1000	400	200	67	40	20	10	±10%
Frequency Response (Hz)	0-250	0-700	0-1000	0-1000	0-1000	0-1000	0-1000	±5% ¹
Natural Frequency (Hz)	700	800	1000	1500	4000	6000	8000	
Non-Linearity (%FSO)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	
Transverse Sensitivity (%)	<2	<2	<2	<2	<2	<2	<2	<1 Typical
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
Shock Limit (g)	5000	5000	5000	5000	5000	5000	5000	
Residual Noise (µV RMS)	600	750	800	800	800	800	800	Passband
Spectral Noise (µg/⊅Hz)	38	71	126	378	632	1265	2530	Passband
ELECTRICAL								
Zero Acceleration Output (mV)	±50							Differential
Excitation Voltage (Vdc)	8 to 36							
Excitation Current (mA)	<5							
Bias Voltage (Vdc)	2.5							
Full Scale Output Voltage (V)	±2							
Output Resistance (Ω)	<100							
Insulation Resistance (MΩ)	>100							@100Vdc
Turn On Time (msec)	<100							
Ground Isolation	Isolated fr	om Mountin	g Surface					
ENVIRONMENTAL								
Thermal Zero Shift (%FSO/°C)	±0.004							Typical
Thermal Sensitivity Shift (%/°C)	±0.010							Typical
Operating Temperature (°C)	-55 to 125							,,
Storage Temperature (°C)	-55 to 125							
Humidity (Active Element & Electronics)	Hermetica	lly Sealed						

PHYSICAL

Humidity (Housing)

Case Material Anodized Aluminum

Cable 4x, #26 AWG Conductors, PFA Insulated, Braided Shield, PFA Jacket

Epoxy Sealed, IP65

Weight (grams) 10

Mounting 2x #4 or M3 Screws
Mounting Torque 6 lb-in (0.7 N-m)

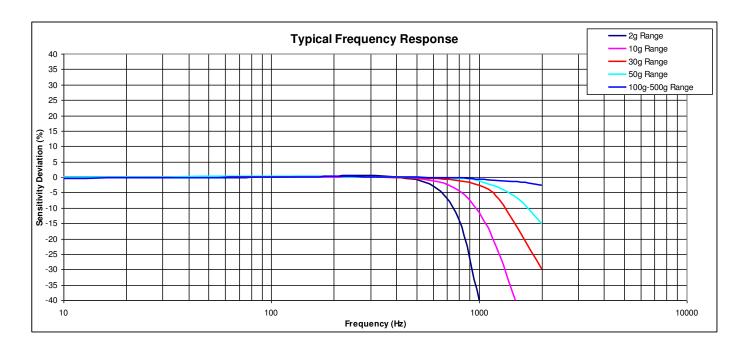
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Response Limit¹

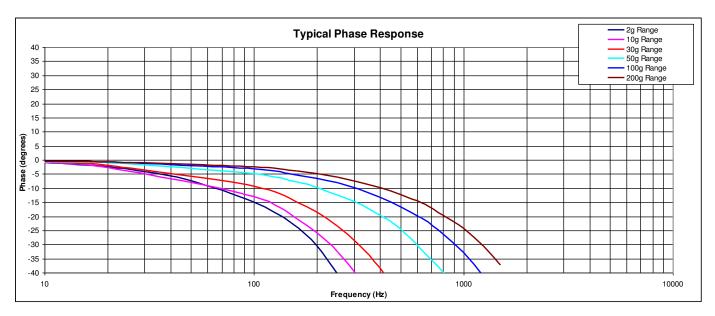
Supplied accessories: AC-A02285 2x #4-40 (7/16 length) Socket Head Cap Screw and Washer

Optional accessories: AC-D02669 Triaxial Mounting Block

121 3-Channel Precision Low Noise DC Amplifier

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ORDERING INFORMATION

4604	GGG	ZZZ	С
Series Type			
Range 002=2g 005=5g 010=10g 030=30g 050=50g 100=100g 200=200g			
Cable length 060=60 inches 120=120 inches 180=180 inches 240=240 inches 300=300 inches 360=360 inches 480=480 inches 600=600 inches 197=197 inches, 5 meters 394=394 inches, 10 meters			

Example; 4604-010-060-C

Model 4604, 10g range, 60inch cable length

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