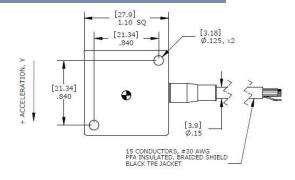
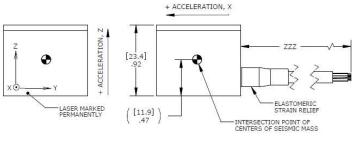




DIMENSIONS





MODEL 4630A ACCELEROMETER

SPECIFICATIONS

- MEMS Triaxial Accelerometer
- Micro-g Resolution, Low Noise
- Accurate Temp Compensation
- Signal Conditioned Output

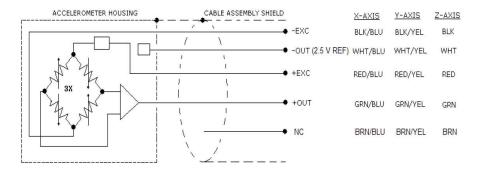
The Model 4630A is an ultra low-noise triaxial accelerometer offering both static and dynamic response. The silicon MEMS accelerometer is gas damped in order to provide a wide stable frequency response. The three independent circuit assemblies have independent signal conditioning and can operate on common or separate power supplies. The model 4630A accelerometer is available in ranges from ±2 to ±200g with an operating temperature range of -55°C to +125°C.

FEATURES

- Three Independent Circuits
- ±2g to ±200g Dynamic Range
- ◆ 5,000g Shock Protection
- 8 to 30Vdc Excitation Voltage
- Gas Damping
- Integral Strain Relief
- Temperature Compensated

APPLICATIONS

- Transportation
- Vibration & Shock Monitoring
- Road Vehicle Testing
- Low Frequency Applications
- Modal Analyses
- Structural Monitoring



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 Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g) Residual Noise (μV RMS) Residual Noise (μg/√Hz RMS)		7 400 250 0-300 150 0-500 0 800 .0 ±1.0 <3 7 0.7 00 2000		±20 100 0-600 0-800 1500 ±1.0 <3 0.7 5000 31	±50 40 0-800 0-1100 4000 ±1.0 <3 0.7 5000 26 21	±100 20 0-1000 0-1300 6000 ±1.0 <3 0.7 5000 32 41	±200 10 0-1000 0-1300 8000 ±1.0 <3 0.6 5000 32 82	**Documents** **Docu
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Full Scale Output Voltage (Vdc) Output Resistance (Ω) Insulation Resistance (MΩ) Turn On Time (msec) Ground Isolation	±50 8 to 30 <36 2.5 ±2 <100 >100 <100 Isolated from	Mounting S	urface					Differential @100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Humidity	±0.010 ±0.014 -55 to +125 -40 to +100 Epoxy Seale	d, IP65						-40 to +100°C -40 to +100°C
PHYSICAL Case Material Cable Weight (grams) Mounting	Anodized Alu 15x #30 AW 65 (cable no 2x #4 or M3	G Conductor included)	rs PFA Insu	ılated Lea	ads, Braide	ed Shield, ⁻	ΓΡΕ Jacket	

Mounting Torque 6 lb-in (0.7 N-m)

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

Supplied accessories: 2x #4-40 (11/8 length) Socket Head Cap Screw and Washer AC-D02855

Adhesive Mounting Adaptor Optional accessories: AC-D02744

121 3-Channel Precision Low Noise DC Amplifier

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ORDERING INFORMATION

4630A	GGG	ZZZ
Series Type		
Range 002=2g 003=3g 005=5g 010=10g 020=20g 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; 4630A-010-060

Model 4630A, 10g range, 60inch cable length

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