MODEL 606M2 ACCELEROMETER

SPECIFICATIONS

- **Seat Pad Accelerometer**
- **Removable IEPE Accelerometer**
- **Whole Body Vibration**
- **100mV/g Output**
- **ISO 10326-1 Configuration**

The Model 606M2 is an IEPE triaxial seat pad accelerometer designed specially for characterizing whole body vibration in accordance with ISO 2631-1 and ISO 8041. The seat pad incorporates a removable triaxial IEPE accelerometer with 100mV/g output sensitivity. The model 606M2 is designed for low frequency measurements with a measurement resolution of <0.4mg. A detachable 10ft cable is includes with three BNC connectors for simple interface.

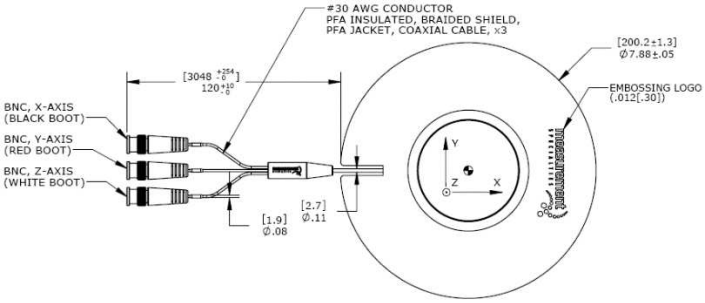
FEATURES

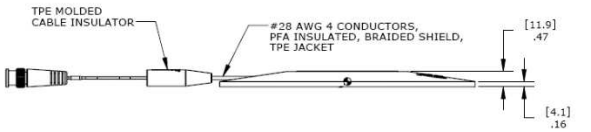
- Three Independent Circuits
- IEPE Interface
- ±50g Dynamic Range
- High Over-Range Protection
- 0.5-1000Hz Frequency Response
- Stable Temperature Response

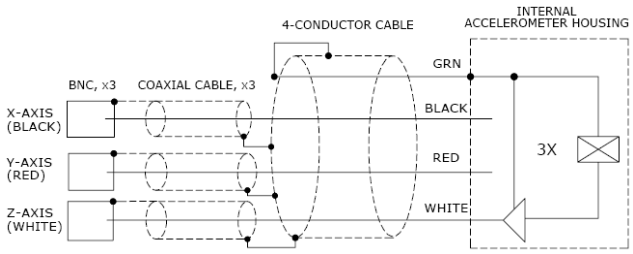
APPLICATIONS

- Whole Body Vibration Study
- Vibration/Shock Monitoring
- Helicopter Flight Testing
- Heavy Equipment Testing
- Biodynamic Study

DIMENSIONS







PERFORMANCE SPECIFICATIONS

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

Parameters		Notes
DYNAMIC		
Range (g)	±50	
Sensitivity (mV/g)	100	±10%
Frequency Response (Hz)	0.5-1000	±5%
Natural Frequency (Hz)	>25000	
Non-Linearity (%FSO)	±1	
Transverse Sensitivity (%)	<5	
Shock Limit (g)	5000	
ELECTRICAL		
Compliance Voltage (Vdc)	18 to 30	
Excitation Current (mA)	2 to 10	
Bias Voltage (Vdc)	8 to 12	Room Temperature
Output Impedance (Ω)	<100	
Full Scale Output Voltage (V)	±5	
Residual Noise (g RMS)	0.0004	Broadband 1Hz to 10kHz
Discharge Time Constant (sec)	0.8 to 1.2	
ENVIRONMENTAL		
Temperature Response (%)	<0.17%/°C	
Operating Temperature (°C)	-20 to +85	
Storage Temperature (°C)	-20 to +85	
Humidity	Hermetically Sealed	
PHYSICAL		
Case Material (Seat Pad)	Nitrile Rubber	
Case Material (Accelerometer)	Titanium	
Sensing Element	Ceramic (shear mode)	
Case Material	Titanium	
Electrical Connector	3x BNC Connectors	
Weight (grams)	350	

Calibration supplied:	CS-LFREQ-0010	NIST Traceable Amplitude Calibration from 1Hz to 100Hz
Optional accessories:	161A	4-Channel PE & IEPE Signal Conditioner

ORDERING INFORMATION

PART NUMBERING	Model Number
	606M2

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