

Model 606M2 Accelerometer



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 <math><0.4\text{mg}</math>. A detachable 10ft cable is included with three BNC connectors for simple interface.

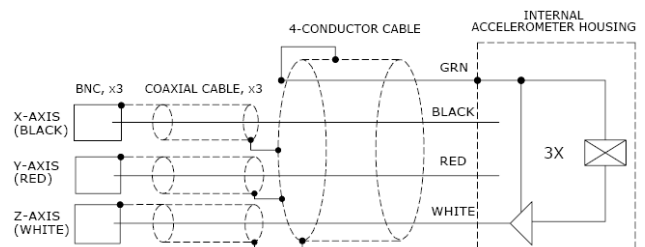
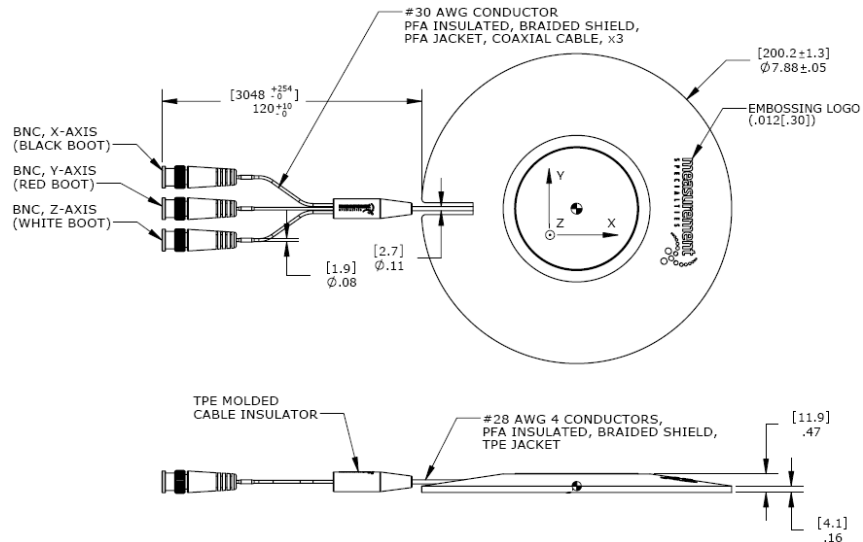
FEATURES

- Three Independent Circuits
- IEPE Interface
- $\pm 50\text{g}$ 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



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performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

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

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ordering info

PART NUMBERING Model Number

606M2