

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.

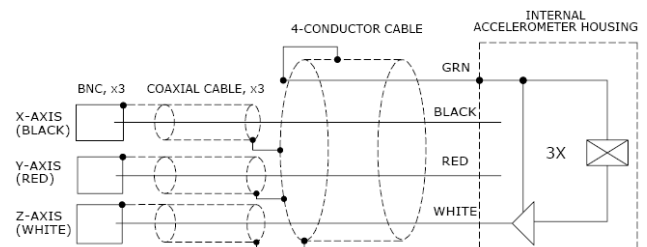
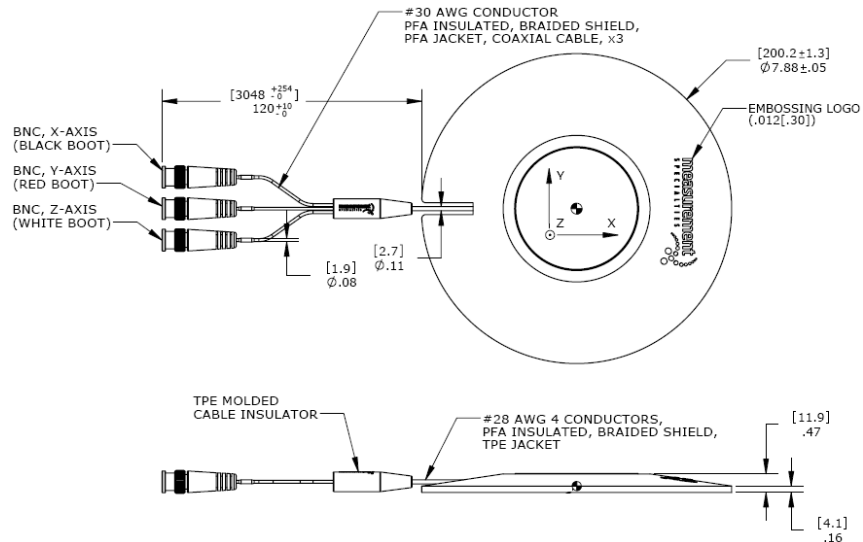
FEATURES

- 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

DYNAMIC

Range (g)	±50
Sensitivity (mV/g)	100
Frequency Response (Hz)	0.5-1000
Natural Frequency (Hz)	>25000
Non-Linearity (%FSO)	±1
Transverse Sensitivity (%)	<5
Shock Limit (g)	5000

Notes

±10%
±5%

ELECTRICAL

Compliance Voltage (Vdc)	18 to 30
Excitation Current (mA)	2 to 10
Bias Voltage (Vdc)	8 to 12
Output Impedance (Ω)	<100
Full Scale Output Voltage (V)	±5
Residual Noise (g RMS)	0.0004
Discharge Time Constant (sec)	0.8 to 1.2

Room Temperature

Broadband 1Hz to 10kHz

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