

# MODEL 606M2 ACCELEROMETER

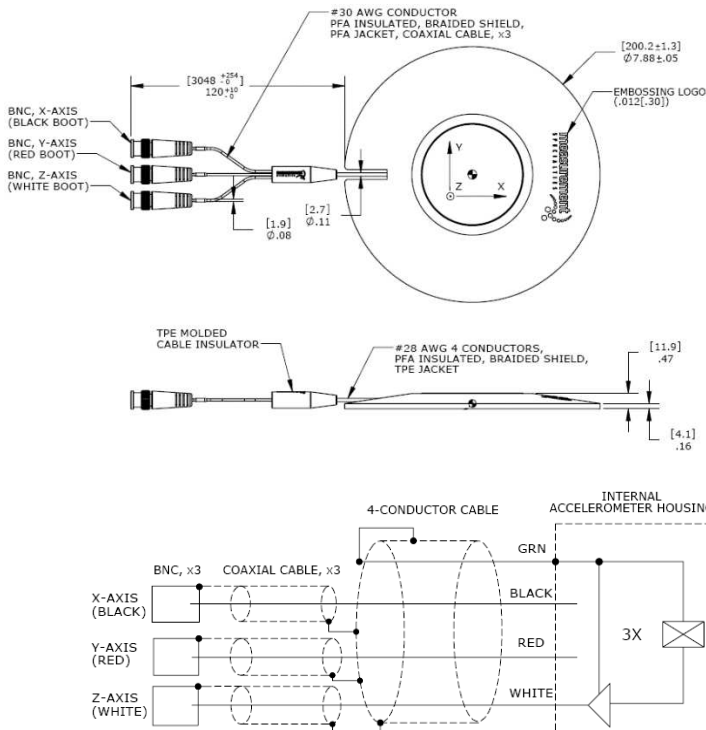


## SPECIFICATIONS

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

## DIMENSIONS



## 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



## 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

#### DYNAMIC

		Notes
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 INFORMATION**

PART NUMBERING    Model Number

606M2



**NORTH AMERICA**

Measurement Specialties, Inc.,  
a TE Connectivity Company  
1000 Lucas Way  
Hampton, VA 23666  
Sales and Customer Service  
Tel: +1-800-745-8008 or  
+1-757-766-1500  
Fax: +1-757-766-4297  
t&m@meas-spec.com

**EUROPE**

MEAS France SAS  
a TE Connectivity Company  
26 Rue des Dames  
F78340 Les Clayes-sous-Bois  
France  
Sales and Customer Service  
Tel: +33 (0) 1 79 33 00  
Fax: +33(0)1 34 81 03 59  
t&m@meas-spec.com

**ASIA**

Measurement Specialties (China), Ltd.,  
a TE Connectivity Company  
No. 26 Langshan Road  
Shenzhen High-Tech Park (North)  
Nanshan District, Shenzhen 518057  
China  
Sales and Customer Service  
Tel: +86 755 3330 5088  
Fax: +86 755 3330 5099  
t&m@meas-spec.com

**TE.com/sensorsolutions**

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