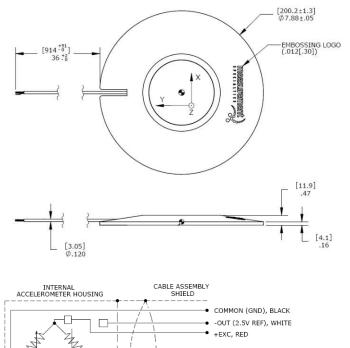




ROHS (E

## DIMENSIONS



+OUT, GREEN (X), ORANGE (Y), BLUE (Z)

# **MODEL 606M1 ACCELEROMETER**

# SPECIFICATIONS

- Seat Pad Accelerometer
- MEMS, Triaxial Sensors
- DC Response
- Accurate Temp Compensation
- ISO 10326-1 Configuration

The Model 606M1 is a MEMS triaxial seat pad accelerometer with both static and dynamic responses designed specially for characterizing whole body vibration in accordance with ISO 2631-1 and ISO 8041. The DC response of the silicon MEMS sensors is the key to yield accurate velocity and displacement results from the raw acceleration data.

**The 606M1** incorporates integral temperature compensation that provides a stable output over a wide operating range. The on-board voltage regulation circuit works with power supply from 8 to 32Vdc.

## FEATURES

- Three Independent Circuits
- Low Current Consumption
- Ranges: ±25g
- Gas Damped, DC Response
- High Over-Range Protection
- Low Transverse Sensitivity

## **APPLICATIONS**

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

### PERFORMANCE SPECIFICATIONS

All values are typical at  $+24^{\circ}$ C, 80Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change the specifications without notice.

Storage Temperature (°C) PHYSICAL Case Material (Seat Pad) Cable	-20 to 85 Nitrile Rubber 6x #28 AWG Conductors, PFA Insulated, Braided Shield, TPE Jacket	
<b>ENVIRONMENTAL</b> Thermal Zero Shift (%FSO) Thermal Sensitivity Shift (%) Operating Temperature (°C) Compensated Temperature (°C)	±3 ±3.5 -20 to 85 -20 to 85	Typical Typical
Excitation Current (mA) Bias Voltage (Vdc) Output Impedance ( $\Omega$ ) Insulation Resistance (M $\Omega$ ) Turn On Time (msec) Residual Noise ( $\mu$ V RMS) Ground Isolation	<15 2.5 <100 >100 <100 800 Isolated from Mounting Surface	@100Vdc Passband
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc)	±100 8 to 36	Differential
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)	±25 80 0-800 0-1000 4000 ±1.0 <3 0.7 5000	Notes ±5% ±1dB
Parameters		

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#### **ORDERING INFORMATION**

PART NUMBERING Model Number

606M1

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