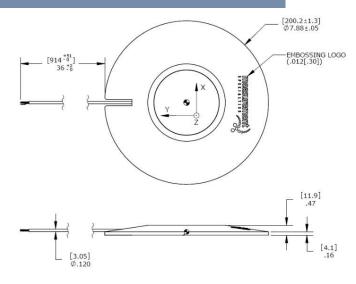
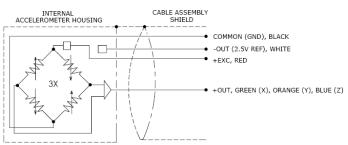




DIMENSIONS





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

Notes

±5%

±1dB

Differential

@100Vdc

Passband

Parameters **DYNAMIC**

Range (g) ±25

Sensitivity (mV/g) 80 Frequency Response (Hz) 0-800

Frequency Response (Hz) 0-1000
Natural Frequency (Hz) 4000
Non-Linearity (%FSO) ±1.0
Transverse Sensitivity (%) <3

Transverse Sensitivity (%) <3
Damping Ratio 0.7
Shock Limit (g) 5000

ELECTRICAL

Zero Acceleration Output (mV) ±100

Excitation Voltage (Vdc) 8 to 36 Excitation Current (mA) <15 Bias Voltage (Vdc) 2.5 Output Impedance (Ω) <100 Insulation Resistance (M Ω) >100

Turn On Time (msec) <100
Residual Noise (µV RMS) 800

Ground Isolation Isolated from Mounting Surface

ENVIRONMENTAL

Thermal Zero Shift (%FSO) ±3 Typical Thermal Sensitivity Shift (%) ±3.5 Typical

Operating Temperature (°C) -20 to 85 Compensated Temperature (°C) -20 to 85 Storage Temperature (°C) -20 to 85

PHYSICAL

Case Material (Seat Pad) Nitrile Rubber

Cable 6x #28 AWG Conductors, PFA Insulated, Braided Shield, TPE Jacket

Weight (grams) 380

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Response Limit

Optional accessories: 121 Three Channel DC Signal Conditioner Amplifier

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ORDERING INFORMATION

PART NUMBERING Model Number

606M1

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