Joint Sensor Instruments (H.K.) Ltd. Joint Sensor Instruments (Shenzhen) Ltd.

Model 606M1 Accelerometer

[200.2±1.3] Ø7.88±.05

> EMBOSSING LOGO (.012[.30])

> > [11.9]

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



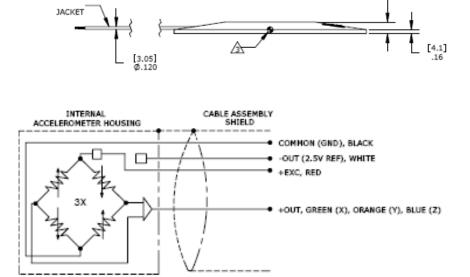
The Model 606M1 is a MEMS triaxial seat pad accelerometer with both static and dynamic responses designed specially for characterizing whole body vibration in accordance with ISO 2631-1 and ISO 8041. The DC response of the silicon MEMS sensors is the key to yield accurate velocity and displacement results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

APPLICATIONS

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



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dimensions

[914 - 0 36 *2





performance specifications

All values are typical at +24°C, 100Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters 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 <1 Typical
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Resistance (Ω) Insulation Resistance (M Ω) Turn On Time (msec) Residual Noise (μ V RMS) Ground Isolation	±50 8 to 36 <15 2.5 <100 >100 <100 800 Isolated from Mounting Surface	Differential @100Vdc Passband
ENVIRONMENTAL Thermal Zero Shift (%FSO) Thermal Sensitivity Shift (%) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C)	±3 ±3.5 -20 to 85 -20 to 85 -20 to 85 -20 to 85	Typical Typical
PHYSICAL Case Material (Seat Pad) Cable Weight (grams) Mounting Mounting AWG	Nitrile Rubber Teflon Insulated Leads, Braided Shield, TPE Jacket 380 2x #4 or M3 Screws Adhesive Tape #28, 6X	
Wiring color code: X-axis: Y-axis: Z-axis:	+Excitation = Red; +Output = Orange; -Output (-2.5V Ref) = White; Common (Gr	ound) = Black
Calibration supplied: CS-FR	CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Response Limit	
Optional accessories: 101	Three Channel DC Signal Conditioner Amplifier	
Part Numbering: Model	Model Number	
Model Number: 606M1		

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