



MODEL 608M93

MICROPOWER INDUSTRIAL ICP® ACCELEROMETER

- Power consumption of just 180 μ W with a 60 μ A current draw for extended battery life
- Typical 350 μ s settling time provides rapid readings
- Compact IP68-rated housing for flexible mounting in harsh environments
- Available with integral cable lengths of 3, 5, or 10 meters for flexible deployment

TYPICAL APPLICATIONS

- High frequency monitoring of bearings, fans, pumps, gearboxes, and other rotating equipment
- Vibration data capture in tight installation spaces
- Ideal for vibration and shock measurements in wireless, battery-powered IoT solutions



ENERGY-SMART CONDITION MONITORING FOR CRITICAL ROTATING EQUIPMENT

The Model 608M93 MicroPower Industrial ICP® Accelerometer sets a new standard for battery-based monitoring of rotating industrial equipment. Its rugged, IP68-rated housing safeguards a proven piezoelectric sensing element with a ± 25 g range, delivering reliable performance from -65 to +250 °F. Advanced high-frequency measurement up to 10 kHz helps detect subtle bearing or gear faults before they escalate into costly downtime. Drawing only 60 μ A at low supply voltages, it conserves power without compromising accuracy, while a 350 μ s settling time ensures rapid start-up for real-time trending. With a compact footprint and integral cable, the 608M93 provides proactive, data-driven asset management in the toughest industrial environments.

SPECIFICATIONS		
Model Number	608M93	
Performance	Imperial	Metric
Sensitivity (± 20%)	50 mV/g	5.1 mV/(m/s²)
Measurement Range	± 25 g	± 245 m/s²
Frequency Range (± 3dB)	60 to 600 kcpm	1 to 10k Hz
Resonant Frequency	> 1320 kcpm	> 22 kHz
Broadband Resolution	550 µg rms	5.4 µm/sec²
Non-Linearity	± 1 %	
Transverse Sensitivity	≤ 7 %	
Environmental		
Overload Limit (Shock)	5,000 g pk	49,050 m/s² pk
Temperature Range	-65 to 250°F	-54 to 121°C
Electrical		
Settling Time (within 10% of bias)	350 µs	
Discharge Time Constant	≥ 0.16 sec	
Excitation Voltage	3 to 5 VDC	
Output Impedance	< 1,000 Ohm	
Current Draw	60 µA	
Output Bias Voltage	1.5 VDC	
Spectral Noise (10 Hz)	35 µg/√Hz	343 (µm/sec²)/√Hz
Spectral Noise (100 Hz)	12 µg/√Hz	118 (µm/sec²)/√Hz
Spectral Noise (1 kHz)	6 µg/√Hz	59 (µm/sec²)/√Hz
Physical		
Size (Hex x Height)	9/16 in x 2.5 in	14 mm x 64 mm
Weight	3.5 oz	99.3 gm
Mounting	Stud	
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Molded	
Electrical Connector	Molded Integral Cable	
Electrical Connector Position	Top	

