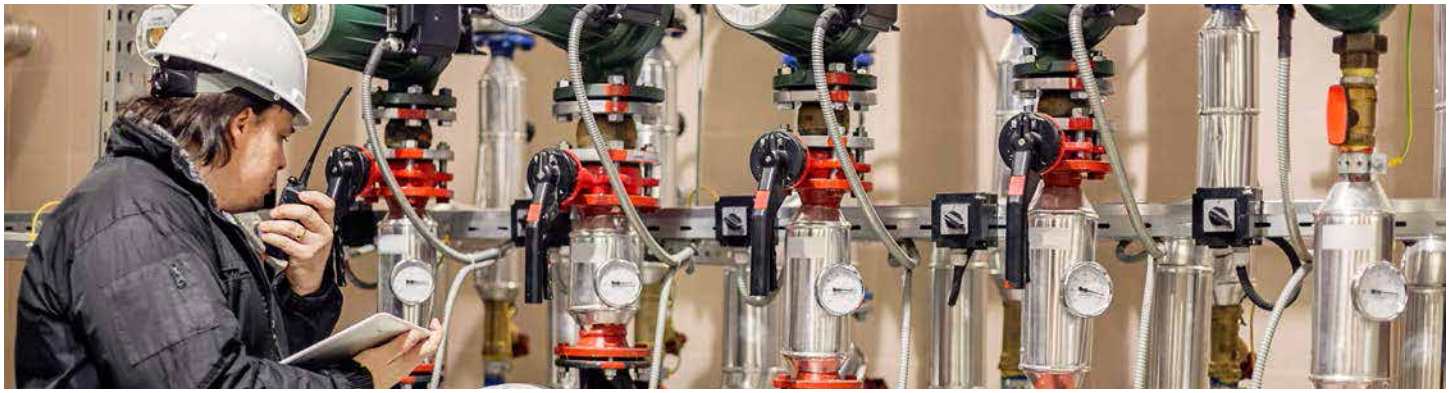


Model 633A01

USB DIGITAL ACCELEROMETER

(Tablet computer not included)

- USB plug-and-play capability
- Rugged piezoelectric sensing technology
- Broad frequency and dynamic range
- Phone, tablet and PC ready
- Record and send data to offsite specialists
- Embedded calibration

Typical Applications

- Vibration Testing & Troubleshooting
- Machinery Health Monitoring
- Route Based Measurements
- Predictive Maintenance & Condition Monitoring

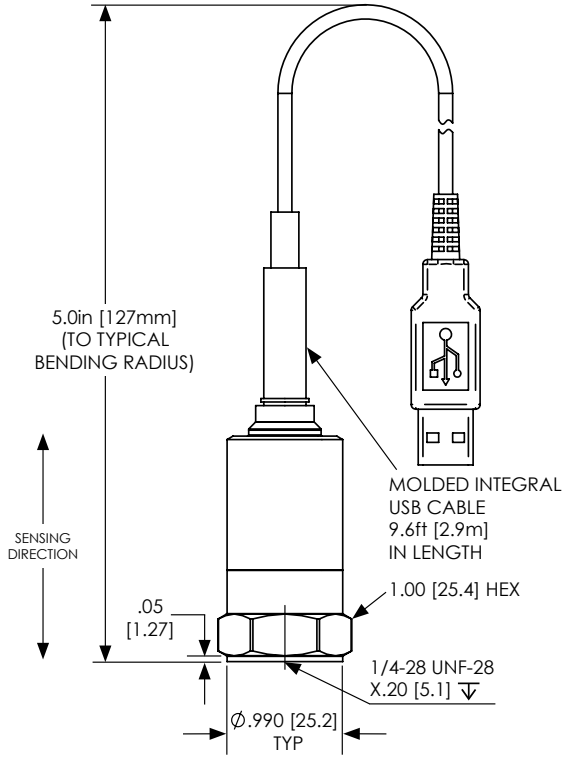
CE

Vibration Testing Simplified

The USB Digital Accelerometer puts high-quality, low-hassle vibration measurements in the palm of your hand. Model 633A01 allows users to take professional-grade vibration measurements right from a PC, smartphone or tablet, turning any device into a portable, handheld vibration meter spectrum analyzer. The simplicity of Model 633A01 opens the door to those just starting out in vibration, while still providing the accuracy and range needed by the experts. This unit is compatible with a variety of software applications, allowing users to choose the app that best fits their testing needs. Model 633A01 also uses standard drivers, making it possible to write custom software if necessary.

Based on piezoelectric sensing technology, Model 633A01 has a wide frequency range (0.9 to 15,000 Hz at ±3dB tolerance). The unit comes in a rugged, stainless steel, hermetically sealed package to survive harsh environments. With a cable length of 9.6 feet, taking measurements is quick and easy, even in the most difficult to reach places. The USB Digital Accelerometer delivers accurate, useful vibration testing in a package you can trust.

Model Number	633A01	
Performance	**Imperial**	**Metric**
Sensitivity (Channel A)	334,566 counts/g	34,105 counts/(m/s²)
Sensitivity (Channel B)	664,689 counts/g	67,756 counts/(m/s²)
Measurement Range (Channel A)	± 20 g pk	± 196 m/s²
Measurement Range (Channel B)	± 10 g pk	± 98 m/s²
Analog-to-Digital Converter Bandwidth (-3 dB)	0.16 to 22,900 Hz	9.3 to 1,374,000 cpm
Frequency Range (±5 %)	2 to 8,000 Hz	120 to 480,000 cpm
Frequency Range (±10 %)	1.5 to 11,000 Hz	90 to 660,000 cpm
Frequency Range (±3 dB)	0.9 to 15,000 Hz	54 to 900,000 cpm
Resonant Frequency	≥ 25 kHz	≥ 1,500,000 cpm
Mounted Resonance	17.4 kHz	1,044,000 cpm
Mounted Resonance Amplification	200%	
Broadband Resolution (1 to 10,000 Hz)	0.0025 g pk	0.0245 m/s² pk
Non-Linearity	≤2%	
Transverse Sensitivity	≤5%	
Environmental		
Overload Limit (Shock)	7,000 g pk	68,647 m/s² pk
Temperature Range	+14 to +158 °F	-10 to +70 °C
Temperature Coefficient	0.10% / °F	0.18% / °C
Electrical		
Communication Standard	USB 2.0 Full Speed	
Power Consumption	≤45 mA	
Internal Analog-to-Digital Converter	24-bit	
Supported Resolution Rates	16-bit or 24-bit	
Supported Sample Rates	48, 44.1, 32, 22.05, 16, 11.025, 8.0 kHz	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting Thread	1/4-28 UNF	
Mounting Torque	2 to 5 lb·ft	2.7 to 6.8 N·m
Electrical Connector	Integral Cable Terminating in USB Type A Male	
Electrical Connection Position	Top	
Cable (Integral) Length	9.6 ft	2.9 m
Size (Hex x Height)	1.0 x 2.6 in	25.4 x 66.0 mm
Weight	4.6 oz	131 g



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IMI SENSORS designs and manufactures a full line of accelerometers, sensors, vibration switches, vibration transmitters, cables and accessories for predictive maintenance, continuous vibration monitoring, and machinery equipment protection. Products include rugged industrial ICP® accelerometers, 4-20 mA industrial vibration sensors and transmitters for 24/7 monitoring, electronic and mechanical vibration switches, the patented Bearing Fault Detector, high temperature accelerometers to +1300 °F (+704 °C), 2-wire Smart Vibration Switch, and the patented Reciprocating Machinery Protector. CE approved and intrinsically safe versions are available for most products.

THE INDUSTRY'S ONLY COMMITMENT TO TOTAL CUSTOMER SATISFACTION.