measurement s P E C I A L T I E S™

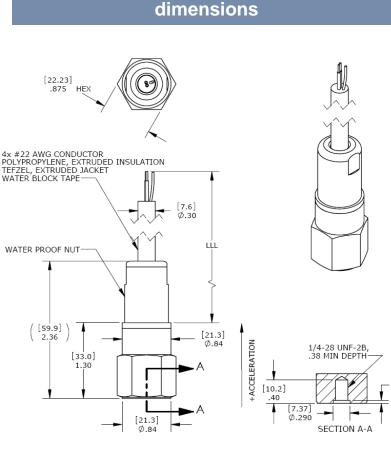
Model 8042 Submersible Accelerometer

Submersible IEPE Accelerometer 16kHz Bandwidth IP68 Protection, >100meters Integral Cable, Tefzel & Urethane

The Model 8042-01 is a submersible IEPE accelerometer designed for harsh environments. The accelerometer is available in ±10g, ±80g & ±500g dynamic ranges and feature a welded Titanium housing. The model 8042-01 features an integral cable that is custom designed for submersible applications and features a unique water block feature that self-seals in the event of accidental cuts to the cable.

The accelerometer includes internal shielding and a wide usable bandwidth to >16kHz.

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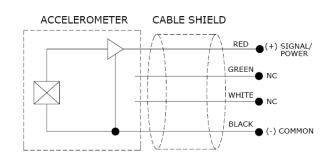


FEATURES

- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Welded Titanium
- Annular Shear Mode Crystals
- Reverse Wiring Protection

APPLICATIONS

- Submersible Pumps
- Rotating Machinery Monitoring
- Underwater Vibration Monitoring
- Outdoor, Harsh Environments
- Gearbox Monitoring
- Shipboard Installations



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Model 8042 Submersible Accelerometer

performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±10 500 1-4000 0.5-7000 28000 ±1 <5 5000	±80 100 1-10000 0.5-16000 32000 ±1 <5 5000	±500 10 1-10000 0.5-18000 42000 ±1 <5 5000		Notes ±10% ±10% ±3dB
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Impedance (Ω) Insulation Resistance (MΩ) Residual Noise (g RMS) Warm-up Time (sec) Grounding	18 to 30 2 to 10 8 to 12 <100 >100 0.00005 <1 Case Isola	18 to 30 2 to 10 8 to 12 <100 >100 0.0001 <1 ted, Internally Shiel	18 to 30 2 to 10 8 to 12 <100 >100 0.0003 <1 ded		See Note 1 Room Temperature @100Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Protection Rating					
	Ceramic (shear mode) Titanium 70 24 Ib-in (2.7 N-m) ge a minimum compliance voltage of 24Vdc is recommended fazardous Area Approval options				
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 10\%$ Frequency Response Limit			
Supplied accessories:	AC-A03663	1/2-28 to 1/2-28 mounting stud			
Optional accessories:	316-XXX 318-XXX AC-D03664 AC-D03665 AC-A04209 AC-D04210	Cable Assembly, Straight (XXX designates length in inches, 10ft standard) Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard) ¼-28 to M5 mounting stud ¼-28 to M6 mounting stud Magnetic Mounting Adaptor Adhesive Mounting Adaptor			

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ordering info

PART NUMBERING Model Number+Range+Cable Option+Cable Length

8042-01-GGG-TZZZZ

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- I I_____ Cable Length (0360 is 360 inches)
 - _____ Cable Jacket Option (T is Tefzel, U is Urethane)
 - _____ Range (080 is 80g)

Example: 8042-01-080-U0360 Model 8042-01, 80g Range, Urethane Cable, 360 inch (30ft) Cable Length

contact info

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ASIA

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