

Miniature underwater accelerometer

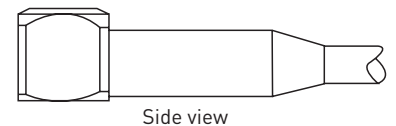
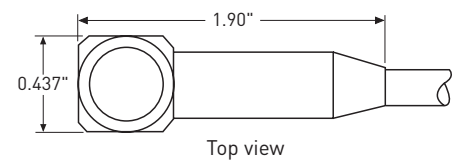
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SPECIFICATIONS

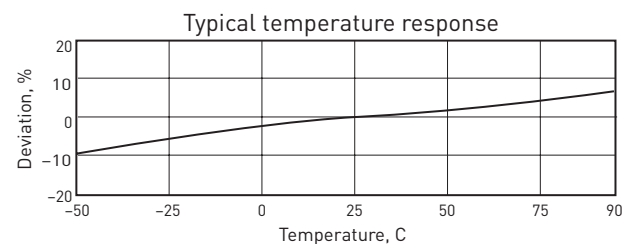
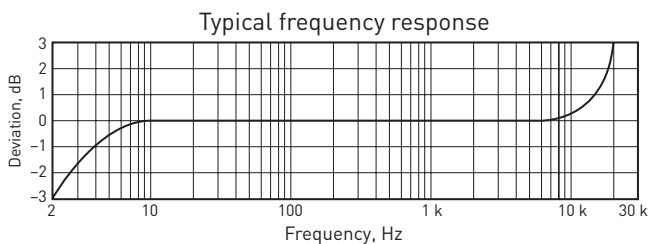
Sensitivity, ± 1.5 dB, 25°C		10 mV/g
Acceleration range¹		250 g peak
Amplitude nonlinearity		1%
Frequency response:	± 1 dB	10 - 15,000 Hz
	± 3 dB	2 - 25,000 Hz
Resonance frequency, mounted, nominal		60 kHz
Transverse sensitivity, max		10% of axial
Temperature response		see graph below
Power requirement:		
Voltage source		18 - 30 VDC
Current regulating diode¹		2 - 5 mA
Electrical noise, equiv. g, nominal:		
Broadband	2.5 Hz to 25 kHz	300 μ g
Spectral	10 Hz	50 μ g/ \sqrt Hz
	100 Hz	4.0 μ g/ \sqrt Hz
	1,000 Hz	1.5 μ g/ \sqrt Hz
	10,000 Hz	1.0 μ g/ \sqrt Hz
Output impedance, max		200 Ω
Bias output voltage, nominal		8, ± 1.5 VDC
Grounding		case isolated, internally shielded
Hydrostatic pressure, max		650 psi
Temperature range		-20° to +90°C
Vibration limit		500 g peak
Shock limit		5,000 g peak
Base strain sensitivity		0.01 g/ μ strain
Dynamic weight		4 grams
Case material		titanium
Mounting		adhesive
Integral cabling		J6, 10 ft.

Key features

- High pressure rating
- Manufactured in ISO 9001 facility



Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.