

High frequency, deep ocean vector sensor

DVS-100

PRELIMINARY

SPECIFICATIONS

DYNAMIC

Output sensitivity:	
Accelerometer	400 mV/g
Hydrophone	-178 dB re 1V/ μ Pa
Full scale input range:	
Accelerometer	2.5 g peak
Hydrophone	TBD
Resonance frequency (typ.)	15 kHz
Frequency response	1 - 7,000 Hz
Transverse sensitivity, max	5.0%

ELECTRICAL

Power requirements:	
Voltage	6.5 - 9.0 VDC
Current	15 mA
Output type	2.0 - 3.5 V bias, single ended
Output impedance	100 Ω

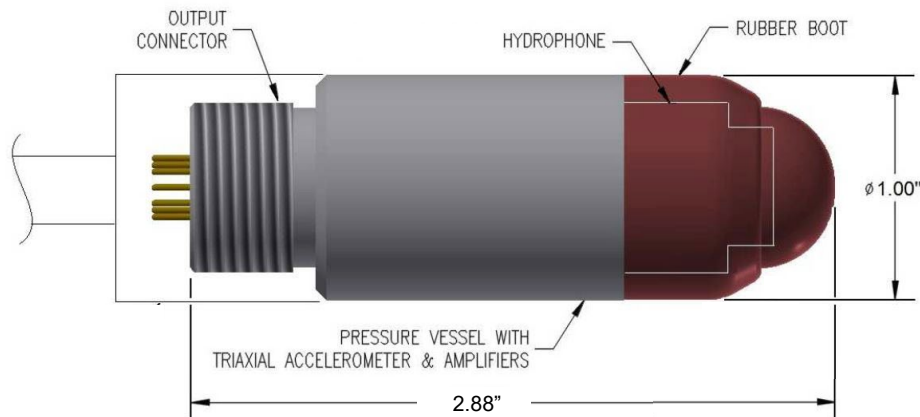
ENVIRONMENTAL

Operating temperature	0°C to 50°C
Operating pressure	10,000 psi



Configuration

- Three orthogonal axis accelerometers and one omni-directional hydrophone
- Hydrophone oil-compensated design with mechanical high-pass filter
- High frequency triax and analog amplifiers integrated inside pressure vessel



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