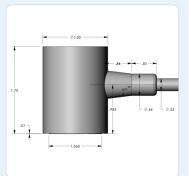
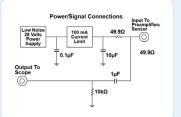


R6I-UC Sensor

Underwater Sensor







DESCRIPTION AND FEATURES

R6I-UC is an underwater sensor with integrated preamplifier. It is a narrowband sensor with very high sensitivity featuring an integral preamplifier with a gain of 40 dB. The integrated electronics give the sensor a signal-to-drive capability for depths of 300 meters (1000 ft) or more. The sensors feature special polymer coatings making it 100% insulated and non conductive with an integral waterproof cable for underwater use. The sensor is tested to depths of 1000 psi.

APPLICATIONS

The sensor can be used for the structural health monitoring of submerged structures like offshore oil and gas platforms, ships etc. They can be used inside any liquid filled platforms like pipelines, chemical tanks or any other submerged structures.

PRODUCT DATA SHEET

ODEDATING SPECIFICATIONS

OPERATING SPECIFICATIONS	
Peak Sensitivity, Ref V/(m/s) Peak Sensitivity, Ref V/µbar Operating Frequency Range Resonant Frequency, Ref V/(m/s) Resonant Frequency, Ref V/µbar Directionality	26 dB 35-100 KHz 50 dB 90 KHz
Environmental Temperature Range Shock Limit Completely enclosed crystal for RFI	500 g
Dimensions	
Weight	116 grams
Case Material Face Material Connector	Stainless Steel/Epoxy
Connector Locations	ŭ
Electrical Gain Power Requirements Dynamic Range	20-30 VDC @ 25 mA
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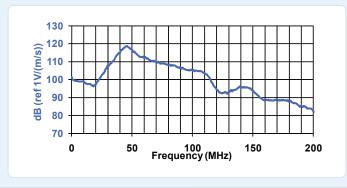
ORDERING INFORMATION AND ACCESSORIES

R6I-UC R	5I-UC
Preamp to System Cable (specify length in 'm') 12	234-X
Amplifier Subsystems AE2A,	AE5A

Noise Level (RMS RTI).....< 3 μV Output Drive Impedance......50 Ω Grounding......Case GroundingIsolated from mounting surface

Sensors include

NIST Calibration Certificate & Warranty



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