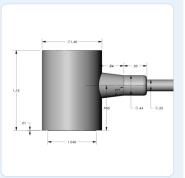
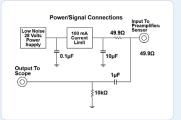


## **R30I-UC Sensor**

**Underwater Sensor** 







### **DESCRIPTION AND FEATURES**

R30I-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**

#### OPERATING 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	24 dB 200-400 KHz 225 dB 350 KHz
Environmental Temperature RangeShock LimitCompletely enclosed crystal for RFI/	-30 to 65ºC
Physical Dimensions	
Weight Case Material Face Material Connector Connector Locations	Stainless Steel/Epoxy Ceramic BNC on integral cable
Electrical Gain Power Requirements	

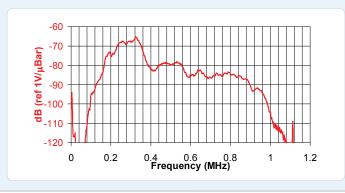
# **ORDERING INFORMATION AND ACCESSORIES**

R30I-UC	R30I-UC
Amplifier Subsystems	AE2A, AE5A
Sensors include	

Dynamic Range.....>87 dB Noise Level (RMS RTI).....< 3  $\mu V$ Output Drive Impedance......50  $\Omega$ Grounding......Case Grounding

Isolated from mounting surface

NIST Calibration Certificate & Warranty



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