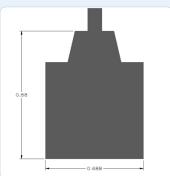


# **R15-UG Sensor**

**Underground Sensor** 





### **DESCRIPTION AND FEATURES**

R15-UG is a resonant underground sensor with very high sensitivity. The sensor features special polymer coatings making it 100 % insulated and non conductive with an integral waterproof cable. The sensor is tested to depths of 1000 psi.

### **APPLICATIONS**

The sensor can be used for the structural health monitoring of underground structures like pipelines, oil tanks, tunnels etc. They can also be used for monitoring geological structures and seismic activity.

## **PRODUCT DATA SHEET**

### **OPERATING SPECIFICATIONS**

Dynamic	
Peak Sensitivity, Ref V/(m/s)	69 dB
Peak Sensitivity, Ref V/μbar	63 dB
Operating Frequency Range50	)-200 KHz
Resonant Frequency, Ref V/(m/s)	75 dB
Resonant Frequency, Ref V/µbar	150 KHz
Directionality	+/- 1.5 dB
Environmental	
Temperature Range3	5 to 75ºC
Shock Limit	500 g
Completely enclosed crystal for RFI/EMI immunity	

Physical	
Dimensions	0.69"OD X 0.68"H
	18 mm OD X 17 mm H
Weight	26 grams
Case Material	Stainless Steel/Epoxy
Face Material	Ceramic
Connector	BNC on integral cable

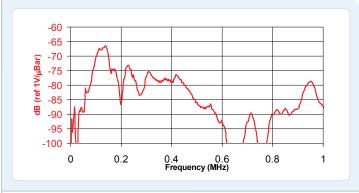
Connector Locations......Top (optional side exit)

### **ORDERING INFORMATION AND ACCESSORIES**

R15-UGR15-UG
Cable (specify length in '-XX' m at end of PN) 1234-X
Pre-amplifiers 0/2/4, 2/4/6
Preamp to System Cable (specify length in 'm') 1234-X
Amplifier Subsystems AE2A or AE5A

Sensors include

NIST Calibration Certificate & Warranty





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