

## PRODUCT DATA SHEET

### R30-UC Sensor

Underwater Sensor

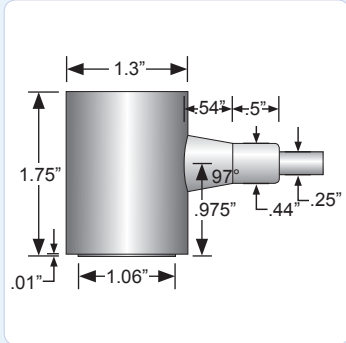


#### DESCRIPTION AND FEATURES

R30-UC is an underwater sensor with integrated preamplifier. 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 2,200 ft (1,000 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.



#### OPERATING SPECIFICATIONS

##### Dynamic

Peak Sensitivity, Ref 1V/(m/s).....	58 dB
Peak Sensitivity, Ref 1V/ $\mu$ bar.....	-64 dB
Operating Frequency Range.....	200-400 kHz
Resonant Frequency, Ref 1V/(m/s).....	225 kHz
Resonant Frequency, Ref 1V/ $\mu$ bar.....	350 kHz
Directionality.....	+/- 1.5 dB

##### Environmental

Temperature Range.....	-65 to 177°C
Shock Limit.....	500 g
Immersion Depth Limit.....	1000 ft

##### Physical

Dimensions*.....	1.3"OD X 1.75"H
.....	33 mm OD X 45 mm H
Weight.....	180 grams
Case Material.....	Epoxy coated stainless steel
Face Material.....	Ceramic
Connector.....	BNC on integral cable
Cable Locations.....	Side

##### Electrical

Shielding for EMI.....	Fully shielded
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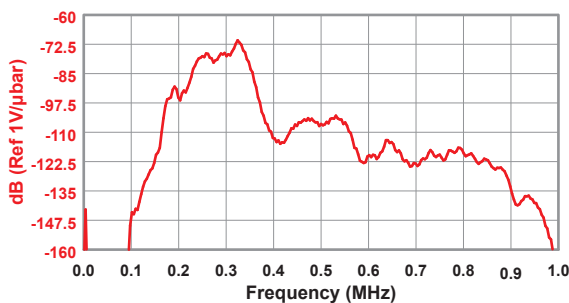
#### ORDERING INFORMATION AND ACCESSORIES

R30-UC.....	R30-UC
Amplifier Subsystems.....	0/2/4, 2/4/6, 1L-LP-30S

##### Sensors include

Characterization Certificate & Warranty

\* Due to variances in coating process, the height of coated sensors may vary within a tolerance of +/- 0.015 inches (.381 mm)



**WORLDWIDE HEADQUARTERS:**  
195 Clarksville Rd •  
Princeton Jct, NJ 08550 • USA  
T: +1.609.716.4000 • F: +1.609.716.0706  
E-MAIL: sales.systems@mistrasgroup.com  
WEB: www.mistrasgroup.com

**CANADA** T: +1.403.556.1350  
**CHINA** T: +86.10.5877.3672  
**FRANCE** T: +331.498.26040  
**GERMANY** T: +49.040.2000.4025  
**GREECE** T: +30.210.2846.801  
**HOLLAND** T: +31.010.245.0325

**INDIA** T: +91.22.2586.2444  
**MIDDLE EAST** T: +44(0)1954.231.612  
**SCANDINAVIA** T: +46(0)31.252040  
**S. AMERICA** T: +55.11.3082.5111  
**UK** T: +44(0)1954.231.612

