



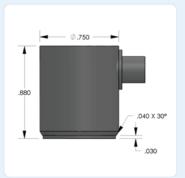


PRODUCT DATA SHEET

R15α Sensor

General Purpose Sensor





DESCRIPTION AND FEATURES

The R15 α is a narrow band resonant sensor with a high sensitivity. The sensor cavity is machined from a solid stainless steel rod, making the sensor extremely rugged and reliable. The ceramic face along with a 30 degree chamfer to cavity electrically isolates the sensor cavity from the structure under test assuring a low noise operation.

The compact size of the sensor makes it readily suitable for deploying in tight spaces for monitoring. The Alpha series family of sensors features an SMA connector versus the Microdot connectors found on MISTRAS' RXX series of sensors. The alpha series includes R3 α , R6 α , R15 α , R30 α , R50 α , R80 α and WS α sensors.

APPLICATIONS

This general purpose sensor provides a good combination of high sensitivity and low-frequency rejection. These properties make the sensor very useful for monitoring common structures such as pipelines, vessels, bridges, and storage tanks in petroleum, refineries, chemical plants, offshore platforms, as well as factory and process monitoring applications.

OPERATING SPECIFICATIONS

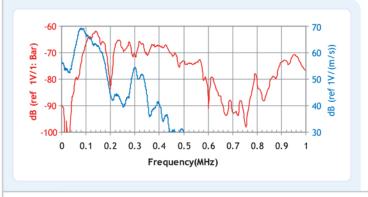
Dynamic	
Peak Sensitivity, Ref V/(m/s)	80 dB
Peak Sensitivity, Ref V/μbar	63 dB
Operating Frequency Range	50-400 kHz
Resonant Frequency, Ref V/(m/s)	75 kHz
Resonant Frequency, Ref V/µbar	150 kHz
Directionality	+/-1.5 dB
Environmental	
Temperature Range	65 to 175ºC
Shock Limit	500 g
Completely enclosed crystal for RFI/EMI immu	unity
Physical	

1 Try Steat	
Dimensions	0.75"OD X 0.88"H
	m OD X 22.4 mm H
Weight TekeT	34 grams
Case Material	Stainless steel
Face Material	Ceramic
Connector	SMA
Connector Locations	Side
Seal	Ероху
Sensor to Preamp Cable (1 or 2 meters) .	1232-X-SMA

ORDERING INFORMATION AND ACCESSORIES

R15α	R15α or R15a
Magnetic Hold-Down	MHR15A
Pre-amplifier	0/2/4, 2/4/6
Amplifier subsystems AE2A, AE5A or s	standard AE systems
Preamp to System Cable (specify length	in 'm') 1234-X

Sensors include
NIST Calibration Certificate & Warranty







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