

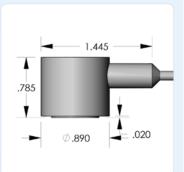




# **ISR15CA-HT Sensor**

**Intrinsically Safe High Temperature Sensor** 





#### **DESCRIPTION AND FEATURES**

The ISR15CA-HT sensor is a medium frequency, resonant acoustic emission sensor with an integral cable. It is designed to meet the intrinsic safety (IS) and IP66 requirements and can operate at very high temperatures continuously. The special polymer coatings on the sensor along with an integral cable make it 100% insulated and non-conductive. The sensor can be used to temperatures of 150 C.

### **APPLICATIONS**

The sensor can be readily used for structural health monitoring in harsh environments requiring intrinsic safety. It can be used for the monitoring of structures like pipelines, pressure vessels and storage tanks in petroleum refineries, chemical plants and offshore platforms.

## PRODUCT DATA SHEET

#### **OPERATING SPECIFICATIONS**

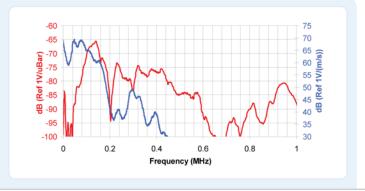
Dynamic	
Peak Sensitivity, Ref V/(m/s)70 dB	
Peak Sensitivity, Ref V/µbar65 dB	
Operating Frequency Range 50-400 kHz	
Resonant Frequency, Ref V/(m/s)75 kHz	
Resonant Frequency, Ref V/µbar150 kHz	
Directionality +/-1.5 dB	
Environmental	
Temperature Range40 to 150°C	
Shock Limit500 g	
WaterproofIP66	
Completely enclosed crystal for RFI/EMI immunity	
Physical	
Dimensions	
23 mm OD X 20 mm H	
Weight27 grams with 1 meter cable	
Case Material Stainless Steel/Epoxy	
Face MaterialCeramic	
ConnectorBNC on integral cable	
Connector LocationsSide	
Certifications	

### **ORDERING INFORMATION AND ACCESSORIES**

NIST Calibration Certificate & Warranty

II 1 (1) GD, Ex ia IIC T3

ISR15CA-HT	ISR15CA-HT
Cable (specify length in '-XX' m)	XX
IS Zener Barrier/Preamplifier Interface	1281
Sensors include	











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