

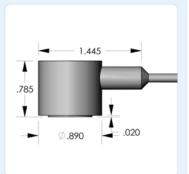




# **ISR15 Sensor**

**Intrinsically Safe Sensor** 





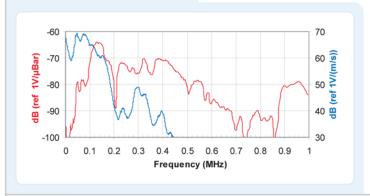
### **DESCRIPTION AND FEATURES**

The ISR15 is a 150 kHz resonant frequency sensor that was designed specially to meet Intrinsic Safety (IS) and IP66 environmental requirements. Certified as Intrinsically Safe (IS) for use with our 1276-2 IS preamplifier and 1276-1 or 1278 IS ASL-C subsystem, his sensor has a thicker ceramic wear-plate and an epoxy coating completely covering the sensor and cable exit. An IS voltage protection circuit is built into the sensor.

It has an integrated one-meter long differential cable with extruded TPE jacket and a pigtail for connecting into a 1276 or 1278 IS Preamplifier or Subsystem. The sensor has similar frequency response as the R15 sensor. Its maximum operating temperature is 125°C.

### **APPLICATIONS**

This sensor provides a good mix of high sensitivity and high 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, where intrinsically safe sensors and systems are required.



## **PRODUCT DATA SHEET**

### **OPERATING SPECIFICATIONS**

Dynamic	
Peak Sensitivity, Ref V/(m/s).	69 dB
Peak Sensitivity, Ref V/μbar	62 dB
Operating Frequency Range.	50-200 KHz
Resonant Frequency, Ref V/(r	n/s)75 dB
Resonant Frequency, Ref V/μ	bar 150 KHz
Directionality	+/- 1.5 dB
Environmental	
Temperature Range	45 to 125ºC
,	1,000 g
	IP66
Completely enclosed crystal	for RFI/EMI immunity
Physical	
Dimensions	0.89"OD X 0.755"H
	22.6 mm OD X 19.2 mm H
Weight	27 grams with 1 meter cable
Case Material	Stainless steel/Epoxy
Face Material	Ceramic
Connector	Pigtail
Connector Locations	Side

Seal ...... Epoxy

Sensor to Preamp Cable (1 meter) ...... Integral

Certifications

ATEX Certified, II1, GD, EEx, ia, IIC T4

### **ORDERING INFORMATION AND ACCESSORIES**

ISR15	ISR15
Pre-amplifier	1276-2
ASL-4-20 ma Subsystem	1276-1
Preamp to System Cable (specify length in 'm')	. 1276C
IS Zener Barrier	. 1276B
Other IS Sensors are available with various resonant	
frequencies	

Sensors include

NIST Calibration Certificate & Warranty









Россия, 125367, Москва, ул. Габричевского д. 5, корп. 1. Тел.: +7(495) 789-4549 Факс: +7(495) 789-4536 E-mail: mail@diapac.ru