Oxygen Sensor

OC-200 / OxyProbe

Electrochemical Solid-state

The OxyProbe is a reliable, cost-effective, SIL2-capable sensor approved for use in hazardous areas. This electrochemical solid-state, twin-electrode sensor is designed for in-situ measurement in harsh chemical applications within the Fine Chemical and Pharmaceutical industries. Designed for use with our OxyExtract apparatus, when teamed with our SILO2 oxygen analyzer we offer a IEC 61508 SIL2-capable configuration.

SIL2 Capable

Highlights

- Measurement range 0...25 % O_2
- SIL2-Capable*
- Unique 'wire-break' feature
- Approved for use in both Gas and Dust groups

Applications

- Harsh chemicals
- Pharmaceutical
- Food & Beverage
- Biotech

* When combined with our SILO2 analyzer

Technical Specifications

OC-200 / OxyProbe	
Technology	Electrochemical
Measurement Range	0...25 %
Output Signal	90...250 mV @ 20.8 % O_2
Pressure Range	950...1050 $mBar_{abs}$ (14...15 psi)
Response Time (T95)	<20 seconds, typically 12 seconds
Temperature Range	-20...+50 °C (-13...+122°F)
Life Expectancy (application dependent)	Up to 12 months
Humidity	0...95 %rh non-condensing
Process Connection	Option of integrated threaded male fitting or suitable compression gland Via OxyEXtract: 2" Tri-clamp / ANSI 150
Electrical Connection	Single pair cable, IP67 connector
Shelf Life	Up to 6 months
SIL-Capable	Yes
Compliance	
Electrical Safety	
EMC: EN 50270, EN 61000	
Hazardous Area Classification	
ATEX: II 1 G Ex ia IIC T6 Ga (-20 °C ≤ Ta ≤ +55 °C) II 1 D Ex ia IIIC T_{200} 135 °C Da (-20 °C ≤ Ta ≤ +55 °C)	**IECEx:** Ex ia IIC T6 Ga (-20 °C ≤ Ta ≤ +55 °C) Ex ia IIIC T_{200} 135 °C Da (-20 °C ≤ Ta ≤ +55 °C)

Related Products

SILO2
SIL2-capable Oxygen Analyzer

OxyEXtract
In-line Sensor Base