



OxyPro

Non-Consumable Oxygen Deficiency Monitor

- paramagnetic sensor with no cell replacements required
- low O₂ and fault alarms
- industry leading linearity, accuracy, fast response times
- remote interface, live monitoring
- optional LED light bar with audible alarm
- integration to DCS or PLC via 4-20mA, RJ45, and/or switches

Oxygen Deficiency Monitor

The OxyPro, from Process Solutions Corp., is a life-critical oxygen deficiency monitoring device that continuously measure O₂ concentration in the atmosphere to ensure safe working conditions in confined spaces. It provides local alarming as well as remote monitoring of oxygen values.

Features

- fast one-point calibration
- table top, rack-mount, or wall-mount options
- ethernet or ModbusTCP connectivity
- 2 x SPCO relays, two low alarms, fault alarm
- for indoor use in temperatures 41 to 113°F
- excellent measurement stability

How it Works

Built for longevity and accuracy, the OxyPro detects O₂ levels in the atmosphere using a paramagnetic sensor. This type of sensor measures weak magnetic forces to detect oxygen concentration in enclosed environments and does not require fuel cell electrolytes. This significantly reduces or eliminates routine maintenance labor, parts costs, and calibrations in exchange for increased safety, accuracy, and reliability.

Performance

Range	0-25% O ₂
Linearity	less than $\pm 0.2\%$ O ₂
Repeatability	less than $\pm 0.3\%$ O ₂
Update Time	less than 1/2 second

Next Generation Oxygen Sensor

The OxyPro oxygen detector uses a state-of-the-art, paramagnetic sensor: the Paracube® from Servomex-Hummingbird. This sensor offers industry-leading linearity, accuracy, and reliability. Best of all, it does not deteriorate, so regular sensor replacement and calibration is eliminated. This new technology ensures unprecedented levels of safety and performance while reducing the lifetime cost of ownership.

- non-consumable sensor eliminates daily calibrations and false alarms
- remote access and live monitoring
- lifetime technical support
- low lifetime cost of ownership

Certifications and Approvals

- RoHS, IEC 61010-1 compliant
- CE compliance with Low Voltage, EMC, and applicable directives
- SIL 2 hardware compliance for safety systems
- meets IP66 enclosure rating for indoor use
- haz area configuration suitable for ATEX Cat 3, IECEx Zone 2, North American Class 1, Div 2

Optional Features

- attached or external LED light bar, audible alarm
- battery back-up
- heating blanket
- integration with BACnet, Modbus, EtherNet/IP, LonWorks, or other ethernet protocols
- custom programming or physical features can be added upon request

Learn more on our website: www.psctexas.com/oxygen-detector

Please visit our website for a complete listing and for the most up-to-date information.



ISNetworld



UL Listed



9001:2015





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- remote interface, live monitoring
- integration to DCS or PLC via 4-20mA, RJ45, and/or switch
- user-friendly, color touchscreen interface
- fast single point calibration
- optional LED light bar with audible alarm
- fast adjustable response and operating parameters

Mechanical

Dimensions	10.39 x 9.21 x 5.55 in
Weight (approximate)	10 lbs
Enclosure	IP66 Rating
Operating Temperature	-4 to 140°F (-20 to 60°C)

Performance

Measurement	0 to 21% oxygen
Accuracy	±0.2% oxygen
Repeatability	< ±0.3% oxygen
Update Time	< 1/2 second
Zero Drift	< ±0.2% oxygen per month
Zero Temp Coefficient	< ±0.5% oxygen per 10°C
Analog Outputs	isolated 4-20 mA
Relay Outputs	6 relay outputs
Ethernet Outputs	RJ45, Modbus TCP
Ambient Pressure Effects	< 0.04% reading per 1% change

Power

AC Input Voltage	100-120 V / 200-240 V
Mains Frequency	50 - 60 Hz
AC Input Current	2.0/1.23 at 120/230 VAC

Environmental Data

Operating Temperature	41 to 122°F (5 to 45°C)
Storage Temperature	23 to 122°F (-5 to 50°C)
Operating Altitude	-1,600 to 13,000 ft
Relative Humidity	10 to 90% RH, (non-condensing)

User Interface

Display	4.3" 65K color touchscreen
Resolution	480 x 272 pixels
Backlight	white LED
Serial Ports	RS232, RS485
Data Logging	yes
I/O Options	yes
Internal Memory	15 Mb
External Memory	32 Gb

Additional Features

- internal orientation compensation
- fault alarm output to 3.5 mA
- easy integration via isolated 4-20 mA output with linear measurement
- real-time monitoring
- remote monitoring and interface
- fast adjustable response

Approvals

UL Safe Area (general purpose)

Optional Features

- attached and/or external LED alarm
- battery back-up

