



# OxyPro

## Non-depleting Oxygen Deficiency Monitor



# OxyPro Oxygen Deficiency Monitor

## Non-consumable, Paramagnetic O<sub>2</sub> Sensor

Built for longevity and accuracy, the OxyPro from Process Solutions Corp. detects O<sub>2</sub> levels in the atmosphere using a non-consumable oxygen sensor. This non-depleting sensor, the Paracube® by Servomex-Hummingbird, does not require consumable electrolytes, so routine maintenance labor, parts costs, and calibrations are significantly reduced in exchange for increased safety, accuracy, and reliability.

### Eliminate Maintenance and Significantly Reduce Calibrations

- industry leading linearity, accuracy, and internal orientation compensation
- non-depleting paramagnetic sensor with no cell replacement required
- lifetime technical support and lower lifetime cost of ownership
- fault alarm via mA jam to 0mA
- remote interface, live monitoring
- fast adjustable response and operating parameters
- easy integration via isolated 4-20mA output with linear measurement

### Performance

- Range: 0-25% O<sub>2</sub>
- Linearity: less than  $\pm 0.2\%$  O<sub>2</sub>
- Repeatability: less than  $\pm 0.3\%$  O<sub>2</sub>

### Features

- excellent measurement stability
- non-consumable sensor eliminates daily calibrations
- optional ambient or sample pressure compensation
- remote access and live monitoring
- suitable for indoor use for temperatures from 41 to 122°F
- ethernet or Modbus TCP
- 2 x SPCO relays, low alarm 1, low alarm 2, fault alarm via annunciator



# How This Oxygen Monitor Works

## Increase Safety and Reliability

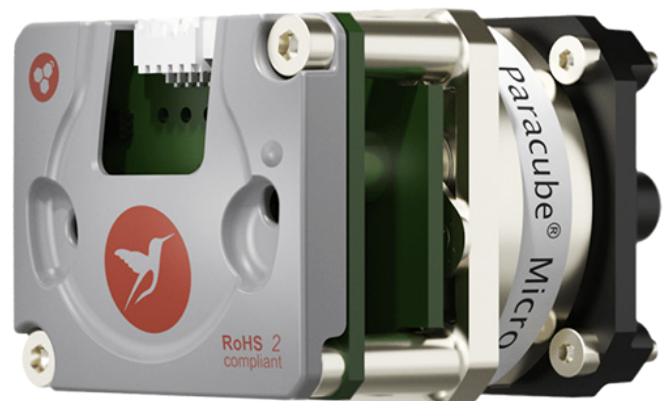
The OxyPro is equipped with a non-consumable, paramagnetic sensor that uses weak magnetic forces to detect the concentration of oxygen in the surrounding atmosphere. Paramagnetic oxygen sensors are a low-maintenance, non-depleting alternative to traditional oxygen detectors. Since they do not rely on electrochemical, galvanic, or fuel cells, routine maintenance, labor, parts costs, and calibrations are significantly reduced in exchange for increased safety and reliability.

The Paracube paramagnetic sensor leads the industry in accuracy, linearity, and reliability over traditional cell-based technologies and our user-friendly, color touch screen interface innovates easy control and remote data management, creating a powerful, yet affordable oxygen detector.

- non-consumable sensor eliminates daily calibrations
- optional ambient or sample pressure compensation
- wall-mount or desktop models available, customizable to fit requirements
- lifetime technical support and lower lifetime cost of ownership

Our paramagnetic sensor offers innovative life-safety performance and eliminates false readings and false alarms caused by depleting cells in traditional oxygen detector technologies. Advanced Magneto-Dynamic technology offers unprecedented performance and reliability, and the microprocessor based diagnostics are safe, reliable, and easy to access.

- hazardous area configuration suitable for ATEX Cat 3, IECEx Zone 2, North American Class 1, Div 2
- 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



# Affordable and Flexible

## Tons of Built-In Features and Custom Options

Eliminate daily maintenance and calibrations, while increasing safety and reliability with the OxyPro Oxygen Deficiency Monitor, from Process Solutions Corp. The OxyPro includes an innovative paramagnetic oxygen sensor, low level and fault alarm functions, and a color touchscreen interface that visually and clearly displays current oxygen concentration levels. Additionally, it includes Ethernet connectivity, which allows easy integration with existing operations via Modbus TCP. Each monitor can be programmed to alarm at custom deficiency levels and via numerous methods such as lights, audible alarms, and text or email. And it's all available at a low lifetime cost of ownership since the sensor, unlike fuel cells, never needs to be replaced.

Furthermore, our oxygen deficiency monitor is both flexible and customizable. We can program custom features or functions into the OxyPro as specified by the user. And our electrical and programming engineers are happy to work directly with our users to include any functions and features to allow a seamless and hassle-free experience. Whether prebuilt or made custom to order, our team assembles these Oxygen Deficiency Monitors in our in-house, ISO certified workshop.



### Optional Features

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

# More Packaged Solutions From Process Solutions Corp.

## Gas Bottle Monitor

Our Gas Bottle Monitor offers real-time monitoring of the available gas supply in gas bottles. It's equipped with low level alarms that will notify operators when supply is running low, and a new bottle needs to be ordered. This eliminates the need for operator rounds to manually check gas supply while helping to prevent critical analyzer shut down and costly emergency gas deliveries.

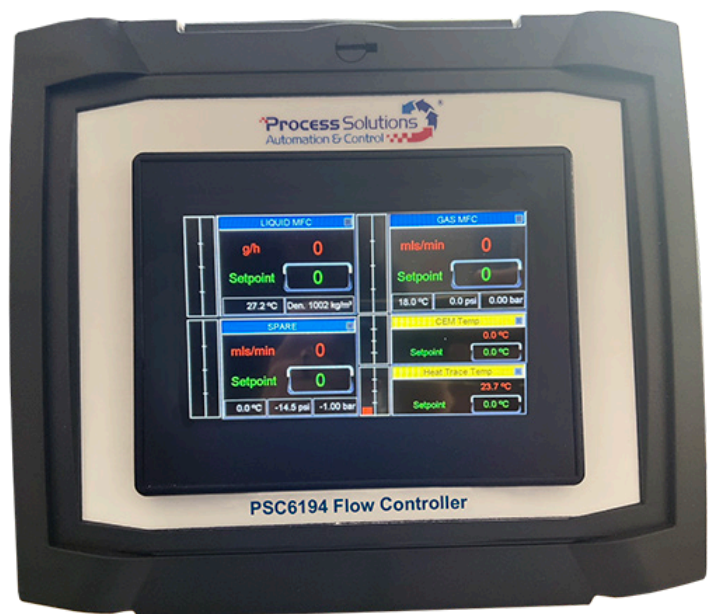


Learn More

- visual indication of pressure / level (gas supply)
- alarm notifications when bottles are low via text, email, optional LED light
- transmit pressure readings to DCS, PLC, etc. via Modbus TCP

## Flow Control System

The PSC6194 Flow Controller is a readout and control system for use with Bronkhorst Mass Flow Meters and Controllers. It is capable of data logging and other functions that are useful for batching or continuous production processes. Its user-friendly, color touchscreen controls allow for multichannel configuration for up to 4 channels and enables users to easily view or change built-in functions including measured value, setpoint, instrument range, trending values totalizer with limit, value, new setpoint, and more.



Learn More

# Process Solutions Corp.

## Automation and Control Specialists

As a leading distributor of industrial instrumentation, Process Solutions Corp., interacts with a wide range of industrial processes. Our expertise is identifying issues and exploring ways to both resolve and to prevent future process disruptions. Using the best technology available, our engineering team has developed numerous full-packaged solutions that help streamline and automate tedious processes to improve efficiency and reliability, while offering critical feedback and real-time process data to users.

Our valuable strategic partnerships from around the globe allow us to offer the high-quality products with a great value. These partnerships, backed by our engineers, sales team, field technicians, and our in-house, ISO certified workshop, have allowed us to build a reputation as a full-service provider for industrial automation solutions. From gas processors to research institutes and universities, to commercial manufacturers, and much more, we have grown since 1999 to become one of the most trusted brands in the industry.

**HORNER**  
AUTOMATION GROUP



All-in-One Controllers

**PR**  
electronics



Signal Conditioning

**Bronkhorst**

**LOWFLOW**



Low Flow Meters, Valves

**CORE SENSORS**



Pressure Sensors

**HOTTI**



Wireless Monitoring

**NIVELCO** **KAYDEN**  
KELLER INSTRUMENTS



Level, Flow, Interface

**HMS Anybus** **eWON**  
Netbiter



Connectivity



Surge and Lightning

**NEWEK**  
Sensor Solutions



LVDT Sensors

**ecom** **KECO**



Industrial Analyzers

**RL N-TRON Sixnet**  
RED LIGHT



Control & Networking

**ISO**  
9001:2015

**ISN**  
ISNetworld  
Verified



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