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## OXY-ProXT Smart Oxygen Transmitter for Reliable Process Oxygen Monitoring

Sensore Electronic GmbH, a DwyerOmega brand, introduces the OXY-ProXT Smart Oxygen Transmitter, a compact and reliable solution designed to deliver accurate oxygen measurement across a wide range of industrial, laboratory, and research applications.

Built around diffusion-limiting zirconia sensing technology, the OXY-ProXT provides precise oxygen monitoring from 10 ppm up to 96% O<sub>2</sub>, enabling engineers and system integrators to maintain controlled atmospheres and ensure process stability in demanding environments.



The transmitter uses pre-calibrated SMART sensors that store calibration and configuration data within the sensor itself. When installed, the transmitter automatically uploads this information, enabling a true plug-and-play installation that simplifies commissioning and reduces maintenance requirements.

### Simplifying Oxygen Monitoring in Critical Processes

Accurate oxygen measurement is essential in many modern processes where even small variations in oxygen concentration can impact safety, product quality, or system efficiency. The OXY-ProXT transmitter provides continuous monitoring and integrates easily into existing control systems with analog outputs (4–20 mA or optional 0–5 V) and RS485 Modbus RTU communication.

The transmitter also features user-programmable oxygen alarm relays, allowing automated responses when oxygen thresholds are exceeded. With a sensor lifetime of up to five years (application dependent) and response times of less than five seconds depending on sensor configuration, the OXY-ProXT provides long-term reliability with minimal operational effort.

### Designed for Flexible Integration

OXY-ProXT is designed for easy integration into OEM equipment and industrial monitoring systems. The transmitter is compatible with multiple sensor housings and thread types across the Sensore product range, allowing installation in a variety of measurement environments.

Typical applications include:

- Additive manufacturing and metal 3D printing
- Glove boxes and inert gas processing systems
- Oxygen and nitrogen concentrators
- Controlled atmosphere laboratories and incubators

- Food packaging and quality testing
- Industrial welding and inert gas monitoring

By providing stable, accurate oxygen measurement in ultra-pure gas environments, the transmitter helps operators maintain process control, protect sensitive materials, and reduce waste caused by oxygen contamination.

#### Key Features

- Oxygen measurement ranges from 10 ppm to 96% O<sub>2</sub>
- Pre-calibrated SMART zirconia sensors with stored calibration data
- Plug-and-play sensor replacement for reduced downtime
- Analog and digital outputs including 4–20 mA and RS485 Modbus RTU
- User-programmable alarm relay for process monitoring
- Fast response time (<5 seconds depending on sensor housing)
- Long sensor life and minimal maintenance requirements

#### Supporting High-Value Industrial Processes

Reliable oxygen monitoring is critical in advanced manufacturing and controlled atmosphere environments. The OXY-ProXT transmitter helps engineers maintain stable oxygen levels, protect product quality, and ensure consistent performance in sensitive processes where trace oxygen contamination can lead to defects or safety risks.

For more information, visit [www.sensore-electronic.com](http://www.sensore-electronic.com)

#### About DwyerOmega

DwyerOmega is a leading global manufacturer of precision measurement and control solutions, trusted across industries to enhance operational efficiency, ensure safety, and support sustainability goals. With a legacy of innovation and quality, our products empower customers to monitor, manage, and optimize critical processes with confidence.

#### About Sensore Electronic

Sensore Electronic GmbH, part of DwyerOmega, specializes in high-performance zirconia oxygen sensing technologies for industrial, medical, and laboratory applications. The company develops sensors and transmitters that deliver precise oxygen measurement in demanding environments, enabling OEMs and system integrators to achieve reliable process control.

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