

Press Releases

DwyerOmega is a global leader in precision sensing, measurement, and control technologies, helping customers improve process efficiency, enhance safety, and support sustainability initiatives across a wide range of industries. Built on decades of engineering expertise and innovation, DwyerOmega delivers reliable solutions that enable accurate monitoring, control, and optimisation of critical applications worldwide.

March 2026

Microx ProSafe SIL2 Dual-Channel Oxygen Transmitter for Safety-Critical Oxygen Monitoring

Sensore Electronic GmbH, a DwyerOmega brand, has introduced the Microx ProSafe SIL2 Dual-Channel Oxygen Transmitter, a high-reliability oxygen monitoring system designed for integration into safety-instrumented systems where accurate oxygen measurement is essential for protecting processes and personnel.



Engineered for safety-critical environments, the Microx ProSafe SIL2 provides two independent oxygen measurement channels with dual measurement ranges. This configuration enables simultaneous monitoring of both trace oxygen concentrations and higher percentage levels, supporting safe operation in inerted environments where oxygen levels must remain below defined safety thresholds.

Certified to Safety Integrity Level 2 (SIL2), the transmitter is designed to support functional safety requirements in industrial processes where oxygen concentration must be continuously monitored to prevent fire, explosion, or contamination risks.

Designed for Reliable Safety Monitoring

The Microx ProSafe SIL2 uses advanced zirconium dioxide (ZrO_2) oxygen sensing technology, delivering long-term stability and fast response times across a wide measurement range from ppm-level oxygen up to 23.5% O_2 . Two pre-calibrated SMART oxygen sensors provide independent measurement channels. Each sensor stores calibration data internally, enabling quick installation and simplified sensor replacement while minimizing downtime.

For integration into control systems, the transmitter provides 4–20 mA analog outputs and RS485 digital communication per channel, along with safety-related alarm relays to trigger automated protective actions when oxygen thresholds are exceeded.

Supporting Safety in Inerted Industrial Processes

Maintaining safe oxygen levels is critical in applications that use nitrogen or argon inerting to reduce combustion risk. The Microx ProSafe SIL2 is designed to support these environments by continuously verifying that oxygen levels remain below a defined safety limit as part of a larger safety instrumented system (SIS).

Typical applications include:

- Additive manufacturing and metal powder processing

- Glove boxes and containment systems
- Industrial filtration systems
- Inert gas blanketing and process safety monitoring

By delivering reliable dual-channel oxygen measurement and functional safety certification, the Microx ProSafe SIL2 helps manufacturers maintain safe atmospheres, protect equipment, and reduce operational risk.

Key Features

- SIL2-certified oxygen monitoring system
- Dual independent oxygen measurement channels
- Wide measurement range from ppm levels to 23.5% O₂
- Pre-calibrated SMART zirconia oxygen sensors
- 4–20 mA and RS485 outputs per channel
- Safety-related alarm relay outputs
- Designed for integration into safety instrumented systems (SIS)

Enabling Safe Operation in Controlled Atmospheres

As advanced manufacturing and high-purity processing industries continue to grow, the need for reliable oxygen monitoring in inert environments is increasing. The Microx ProSafe SIL2 transmitter provides a dependable safety monitoring solution that helps operators maintain controlled atmospheres while ensuring compliance with functional safety requirements.

For more information, visit www.sensore-electronic.com

About DwyerOmega

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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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March 2026

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% O₂, 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% O₂
- 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.

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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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Zirconia Oxygen Sensors

Sensore Electronic GmbH, as a DwyerOmega brand and leading manufacturer of sensing technology, delivers precision and reliability in sensor manufacturing, along with advanced oxygen sensor technology and electronic control modules.



Every product undergoes rigorous quality control to ensure optimal performance, delivering reliable sensors for detecting the presence or absence of oxygen in safety-critical applications.

With a compact footprint and robust design, Sensore's zirconia oxygen sensors are built for precision and reliability, performing in even the most demanding environments while integrating easily into both OEM equipment and standalone monitoring systems. Applications include, medical, food and beverage, industrial processes, and combustion control.

Designed, manufactured, and tested to support status critical measurement, our oxygen-sensing solutions provide customers with a dependable method of monitoring oxygen levels where accuracy and stability matter. For applications requiring highly accurate measurement of very low oxygen concentrations -from percentage levels down to parts per million (ppm) - Sensore offers trace oxygen sensors suited to inert gas systems, glove boxes, inert gas generators, environmental chambers, and other controlled atmosphere environments.

Utilising zirconia technology, Sensore's sensors deliver long-term stability, fast response times, and minimal drift, even in demanding industrial, medical, and laboratory settings, providing fast, precise measurement across a wide 0.1% to 96% O₂ range.

For applications with requirements outside our standard zirconia oxygen sensor range, we offer customisation to suit specific needs, such as adapting housings, cabling and connectors, or aligning measurement ranges and interface options to your system requirements.

We work to ensure products are delivered on time and with a high level of reliability, with sensors tested and inspected before shipment.

Our engineers are available to provide technical and product support, helping you select, integrate the right solution and are happy to provide samples to support evaluation.

For more information (including datasheets and manuals), please visit:

[www.https://sensore-electronic.com](https://sensore-electronic.com)

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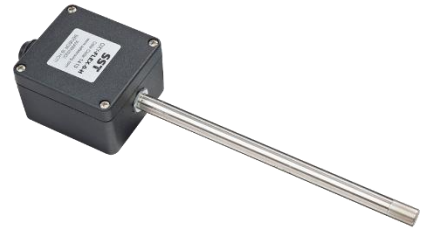
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OXY-Flex – Oxygen Analyser

SST Sensing Ltd, a DwyerOmega brand and leading manufacturer of sensing technology, introduces the OXY-Flex oxygen analyser for accurate measurement of oxygen concentration in air and inert gas mixtures.



The OXY-Flex analyser is designed to measure oxygen concentration in air or inert gas mixtures in hard-to-reach areas and closed systems. Typical applications include combustion control, process oxygen monitoring, and environmental applications.

The SST's OXY-Flex Oxygen Analyser is suited to applications requiring stable oxygen measurement at high temperatures. It operates in extreme conditions and measures oxygen concentration in air and gas mixtures across a wide temperature range from -100°C to $+400^{\circ}\text{C}$.

Applications include combustion control in boilers fired by oil, gas, coal, or biomass, plus oxygen monitoring in incubators, composting systems, welding equipment, and other environmental monitoring installations.

At its core, the analyser uses a zirconium dioxide oxygen sensor that requires no reference gas, supporting long-term reliability and low maintenance. The sensor is housed in a robust stainless-steel probe with a sintered cap to withstand demanding environments while maintaining high accuracy.

A closed-loop system supports continuous monitoring, while a built-in heartbeat signal enables real-time fault detection. Configurable measurement ranges of 0.1–25% or 0.1–100% O_2 are available, with linear output options including 4–20 mA, 0–10 VDC, or RS232 serial communication for integration into industrial systems.

Key features

- Wide temperature operating ranges from -100°C to $+400^{\circ}\text{C}$
- Robust zirconium dioxide sensor element for long-term reliability
- No reference gas required thanks to advanced sensor design
- Configurable measurement ranges: 0.1–25% or 0.1–100% O_2
- Linear output across the full measurement range
- Multiple output options: 4–20 mA, 0–10 VDC, or RS232 serial interface

The OXY-Flex Oxygen Analyser provides accurate, low-maintenance oxygen measurement for harsh and hard-to-reach installations. With a robust zirconia sensor, a wide operating temperature range, and flexible industrial outputs, it is well suited to combustion control, process applications, and environmental measurement where reliable O_2 data is critical.

For more information, please visit www.sstsensing.com

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The DwyerOmega Sensors Business Unit delivers a comprehensive portfolio of high-performance gas sensing technologies and liquid level switches designed to ensure safety, process efficiency, and product quality across the world's most demanding applications. Through our brands; Analytical Industries Inc. (Aii), SST Sensing Ltd, Sensore Electronic GmbH, and Dynamant Ltd, we provide reliable measurement solutions trusted by OEMs, integrators, and end-users globally.

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March 2026

Liquid Level Sensors and Switches

SST Sensing Ltd, a DwyerOmega brand and leading manufacturer of sensing technology, offers a wide range of optical liquid level detection sensors available for any oil or water-based liquid.

Over 300,000 sensors are designed, manufactured and tested every year, providing customers with a reliable method of detecting the absence or presence of liquids in an application where status is critical.



Applications include run dry protection for pumps, tank overflow or making sure there is adequate hydraulic fluids in off-highway machinery.

Our range of optical liquid level switches are solid-state devices, meaning they have no moving parts. This makes them highly reliable and long-lasting. The switches are also compact, so they can be installed in tight spaces. They are able to detect small amounts of liquid, making them ideal for applications where precise level control is required. They can also withstand wide operating temperatures and harsh types of liquid, making them ideal for use in industrial settings.

If our standard range of optical liquid level switches do not meet your requirements, we can customize them to suit your specific needs. We can change the cabling and connectors to meet your application requirements. We can also incorporate built-in features like PWM outputs and insensitivity to moving liquids.

At SST, we understand that short lead times are crucial to your business success. We work to ensure that our products are delivered to you on time and with the highest level of reliability. Every sensor is tested and inspected prior to shipment, giving you the confidence you need to use our products in your applications.

Our design engineers are available to provide you with technical and product support, ensuring that you have access to the expertise you need to make the right decisions for your business. We also provide datasheets, 2D drawings, 3D models, and samples, so you can evaluate our products before making a purchase.

For more information, please visit www.sstsensing.com

About DwyerOmega

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The DwyerOmega Sensors Business Unit delivers a comprehensive portfolio of high-performance gas sensing technologies and liquid level switches designed to ensure safety, process efficiency, and product quality across the world's most demanding applications. Through our brands; Analytical Industries Inc. (Aii), SST Sensing Ltd, Sensore Electronic GmbH, and Dynament Ltd, we provide reliable measurement solutions trusted by OEMs, integrators, and end-users globally.

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March 2026

Intrinsically Safe Liquid Level Sensors and Switches

SST Sensing Ltd, a DwyerOmega brand and leading manufacturer of sensing technology, introduces a range of intrinsically safe optical liquid level switches.

The switches are Hazardous Area approved and designed for use in demanding applications where direct contact with hydrocarbons, fuels, and flammable or explosive liquids is required.



Using innovative infrared technology and the principle of total internal reflection, these hazardous approved switches are suitable for a wide range of applications, including presence or absence of any liquid, petrochemicals/oil and gas, heavy-duty automotive, leak detection, hydraulic reservoirs, tank/container level-control, and downstream analyzer protection. The switches offer an almost instantaneous response time and switch point repeatability of +/- 1 mm, providing highly accurate readings, and require no calibration.

These liquid level switches are highly robust and resistant to chemical attack, with an operating temperature range between -30 and +80°C (-22...+176°F). The switches are housed in 316 stainless steel and come with a choice of sensing tip materials, making them ideal for use in challenging environments. Certified to meet stringent ATEX and IECEx safety standards, this sensor is suitable for use in hazardous area zones 0, 1 & 2 and ensures intrinsic safety by maintaining energy levels low enough to avoid ignition risks, even in faulty conditions, making it ideal for a wide range of applications and is designed for Equipment Groups IIA, IIB, and IIC with a temperature classification of T4 as defined by EN/IEC standards 60079-0, and 60079-11 (latest versions).

The SST range of intrinsically safe optical liquid level switches offers exceptional reliability and accuracy for use in challenging environments and is designed and certified to meet the highest industry standards.

For more information, please visit www.sstsensing.com

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Carbon Dioxide Sensors

Dynament Ltd, a DwyerOmega brand, designs and manufactures non-dispersive infrared (NDIR) gas sensors for the accurate and stable measurement of carbon dioxide, hydrocarbons, nitrous oxide, and refrigerant gases.



Our carbon dioxide sensors are used across a wide range of industries, including HVAC and air quality, healthcare, horticulture, food processing, transportation, and aerospace.

NDIR technology measures gas concentration by analysing the absorption of infrared (IR) light. Each gas absorbs IR energy at a specific wavelength, creating a unique “fingerprint” that enables precise identification. The sensor determines gas concentration by comparing emitted and received IR light.

NDIR gas sensing is a proven and widely adopted method across industries such as industrial safety, environmental monitoring, HVAC, and biogas production.

Dynament’s carbon dioxide sensors are available as single-gas CO₂ sensors or dual-gas CO₂/hydrocarbon sensors, with a range of power consumption options. They are commonly integrated into gas detection and monitoring systems used in industrial safety, hazardous areas, mining, portable instrumentation, and OEM platforms requiring reliable gas measurement.

To support different integration needs, sensors are available either as raw-signal devices for customers developing their own electronics, or as fully integrated modules with built-in optics, electronics, and firmware. These provide linearised, temperature-compensated outputs. Low-power designs extend battery life in portable equipment, while dual-gas capability enables simultaneous measurement (e.g. CH₄ and CO₂) without increasing power consumption.

A range of certification options, including industrial and mining approvals, UL, and SIL1, supports use in demanding environments. Configuration tools enable straightforward set-up, calibration, parameter adjustment, data logging, and firmware updates.

We understand the importance of reliable supply and short lead times. All sensors are tested and inspected prior to shipment to ensure consistent quality.

Our engineering team provides technical support throughout product selection and integration, with access to datasheets, models, and evaluation samples.

For more information, please visit www.dynament.com/

About DwyerOmega

DwyerOmega | Sensors Business Unit

[aai1.com](http://aii1.com) dynament.com sensore-electronic.com sstsensing.com

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About Dynament

Dynament Ltd part of DwyerOmega, specializes in nondispersive infrared (NDIR) gas sensors for monitoring hydrocarbons, carbon dioxide, nitrous oxide, and refrigerant gases. Using patented IR technology, their design and manufacture sensors typically integrated into OEM gas detection products. Dynament's products measure gases such as methane, propane, refrigerants, carbon dioxide, and nitrous oxide.

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March 2026

Hydrocarbon Gas Sensors

Dynamant Ltd, a DwyerOmega brand, designs and manufactures non-dispersive infrared (NDIR) gas sensors for accurate and stable measurement of hydrocarbons, carbon dioxide, nitrous oxide, and refrigerant gases.

Our hydrocarbon gas sensors are used across a wide range of industries, including HVAC and air quality, healthcare, horticulture, food processing, transportation, and aerospace.



NDIR technology provides a reliable, low-maintenance method for detecting hydrocarbon gases. While sensors are typically calibrated for a specific gas such as methane or propane, the underlying principle allows detection of a broad range of hydrocarbons.

NDIR sensors measure gas concentration by detecting the absorption of infrared (IR) light. Hydrocarbon gases absorb IR energy at characteristic wavelengths, and many share similar absorption features. Due to cross-sensitivity, these sensors can detect a range of gases, including propane, methane, butane, ethylene, ethanol, and methanol, providing a flexible solution for multi-gas applications.

Our sensors are characterised during manufacturing for accurate measurement of propane (C_3H_8) in the 0–2% volume range and methane (CH_4) in 0–5% or 0–100% volume ranges. We also offer a DualGas High Resolution sensor capable of simultaneously measuring hydrocarbons and carbon dioxide in a single compact unit with the power consumption of a single sensor.

To meet integration requirements, products are available in Standard and Platinum Series formats, as well as dual-gas variants. Platinum sensors support Modbus RTU communication for straightforward integration, configuration, and diagnostics.

We provide dependable products with short lead times to support project schedules. All sensors are tested prior to shipment to ensure consistent performance.

Our engineering team offers technical guidance and development support, with access to datasheets, 2D drawings, 3D models, and evaluation samples. We also provide product customisation and branding services, with ongoing development aligned to evolving industry requirements.

For more information, please visit www.dynamant.com

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March 2026

Nitrous Oxide Gas Sensors

Dynament Ltd, a DwyerOmega brand, designs and manufactures advanced non-dispersive infrared (NDIR) gas sensors for the precise and stable detection of nitrous oxide, as well as hydrocarbons, carbon dioxide, and refrigerant gases.

Dynament nitrous oxide sensors are designed for accuracy and reliability in applications across medical, industrial, food, and agricultural sectors.

Dynament offers two sensor models to meet different integration and performance requirements.

The Platinum model is a fully integrated, plug-and-play solution with built-in optics, electronics, and firmware, delivering a linear, temperature-compensated output. This reduces development time and simplifies system integration.

The Standard model provides greater flexibility, offering a raw signal output for external processing. The sensor includes internal temperature measurement for accurate compensation and uses NDIR technology to ensure stable performance across varying environments.

Nitrous oxide sensors play a critical role in a range of applications. In healthcare, they are used to monitor anaesthetic gases. In environmental monitoring, they support greenhouse gas measurement. In industrial settings, they enhance safety by detecting leaks, while in agriculture they enable accurate soil emission monitoring.

We provide reliable products with short lead times to support project delivery. All sensors are tested prior to shipment.

Our engineering team offers technical support and development resources, including datasheets, drawings, models, and evaluation samples. We also offer product customisation and continue to develop solutions in line with emerging industry requirements.

For more information, please visit www.dynament.com

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