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Written & issued by Michell Instruments Ltd.
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PRESS RELEASE

New oxygen analyzer targets combustion efficiency in boilers

Michell Instruments has announced the launch of the [XZR250 oxygen analyzer](#) for monitoring combustion control in industrial boilers. It was developed to meet customer demand for a cost-effective, easy to operate instrument with a probe designed to cope with the high temperatures in the flue. Effective combustion control has growing importance for operators as it not only helps increase fuel efficiency but also ensures compliance with legislation on allowable emissions.

The XZR250 uses a [zirconium-oxide sensor](#) with a life span of up to seven years (depending on the fuel used) to maintenance to a minimum. A key benefit of the sensor is its fast response of less than fifteen seconds to changes in oxygen concentrations of 90% of the range. It is also accurate to <0.25% O₂, allowing optimum combustion control.

The XZR250 is easy to install as it requires no specialised tools, it is also very light to handle and has a fast start-up routine. The probe can be inserted directly into boilers up to 700°C and uses the Pitot effect to ensure the sample gas is sufficiently cooled to protect the sensor from damage without the need for complex sample conditioning. As with any process instrument, regular calibration is necessary to ensure the accuracy of the measurements. The XZR250 can use air as a calibration gas, making calibration highly cost effective and simple to perform.

The robust sensor ensures maintenance is minimal, but when it does need replacing, this can be done with minimal process downtime. Michell has extended its popular sensor exchange programme for dew-point transmitters to customers of the XZR250. Under this scheme, operators order a new sensor block from Michell, which arrives ready to fit. Once fitted, the old sensor block can be returned to Michell in the same box and the customer receives a credit.

Typical applications for the XZR250 include oil, gas and biomass boilers.

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Notes

About Michell Instruments

[Michell Instruments is a worldwide leader in the field of moisture and humidity measurement solutions.](#) With four decades experience, Michell designs and manufactures a wide range of sensors, instruments and customized systems capable of measuring dew-point, humidity and oxygen in applications and industries as diverse as compressed air, power generation, petrochemical, oil and gas, food processing and pharmaceutical. Michell's innovative products make processes cheaper, cleaner, more energy efficient and safe.

The company, which is part of the Process Sensing Technologies group, has multiple manufacturing locations across Europe with their international headquarters located in Ely, UK and a North America sales and service headquarters located in Rowley (MA). It has its own facilities in 10 countries with an extensive network of factory trained application and service engineers, subsidiaries and distributors stretching across 56 countries.

<http://www.michell.com/uk>

About Process Sensing Technologies

Process Sensing Technologies (PST) provides a comprehensive suite of instruments and analyzers for precision measurements in industrial process control, environmental monitoring and food/pharmaceutical processing.

Using our products, customers save millions of dollars each year through increased energy efficiency in their processes and reduced fuel consumption. The quality of food, medicines, semi-conductors and thousands of manufactured goods depends on reliable measurements of critical parameters such as humidity, oxygen, pressure or CO2 during production, storage and transport. Many of our products are GAMP and FDA compliant.

The PST Group has a global presence with multiple locations in Europe, Asia and the Americas and looks for more opportunities to continue its growth through investment into new markets. www.processsensing.com