APPLICATIONS

- Combustion Efficiency
- Combustion Control
- Excess Air Measurement
- Pollution Control

INDUSTRIES

- Bio-fuel Boilers
- Package Boilers
- Power Generation
- CCGT
- Petrochemicals
- Process Industries
- Pharmaceuticals
- Incineration
- Furnaces

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REFERENCE AIR SUPPLY UNITS

If short probes (0.2; 0.4; 0.5 and 1.0 m) are used, the reference air enters the sensor zone on a convectional basis. If long probes (1.5; 2.0 m and longer) are used, forced reference air circulation is recommended. The reference air connection kit or reference air pump is used for this purpose.

SPECFICATIONS

Flue gas temp range	0°C - 700°C
Zirconia sensor temp range	750°C ± 3°C
Measuring probe material	Stainless and Acid resistant Steel
Control Unit case material	Aluminium
Probe lengths options	a) 0,2m d) 1,0m b) 0,4m e) 1,5m c) 0,5m f) 2,0m
Total length/weight of measuring probe	a) 0,335 m / 5,9 kg d) 1,135 m / 11,7 kg b) 0,535 m / 7,2 kg e) 1,635 m / 15,0 kg c)) 0,635 m / 7,7 kg f) 2,135 m / 17,4 kg
Total analyser length (probe + control panel)	a) 0,46 m d) 1,47 m b) 0,65 m e) 1,97 m c) 0,76 m f) 2,47 m
Operational head dimensions	130x160x150mm
Protection Rating of operational head	IP65
Reference air	0,2l/min
Measuring range	0,0-21,0% O_2
Accuracy	2% of full scale
Repeatability	0,5 % of full scale
Response time	90,0 % of full scale within 5 seconds
Measurement technique	Zirconia sensor
Warming time	20 minutes
Calibration	Manual 1-or 2-point Manual or Auto 1- or 2- points
Calibration gas	15 - 20,9 % O_2 in nitrogen for range 0,5 – 5,0 % O_2 in nitrogen for zero
Required flow	Stable in range from 2,7 to 3,3 l/min (nominal 3 l/min)
Gas pressure	0,7 bar

ELECTRICAL SPECIFICATIONS	
Power supply	85 - 265 V AC
Frequency	47 - 63 Hz
Power rating	100 W
Interfejs	1 x 4 LED 2 x 16 LCD
Analog outputs	0 - 20 mA, 4 - 20 mA, 0 - 10 V
Digital output	MODBUS Protocol
Error signals	LED, fault signals

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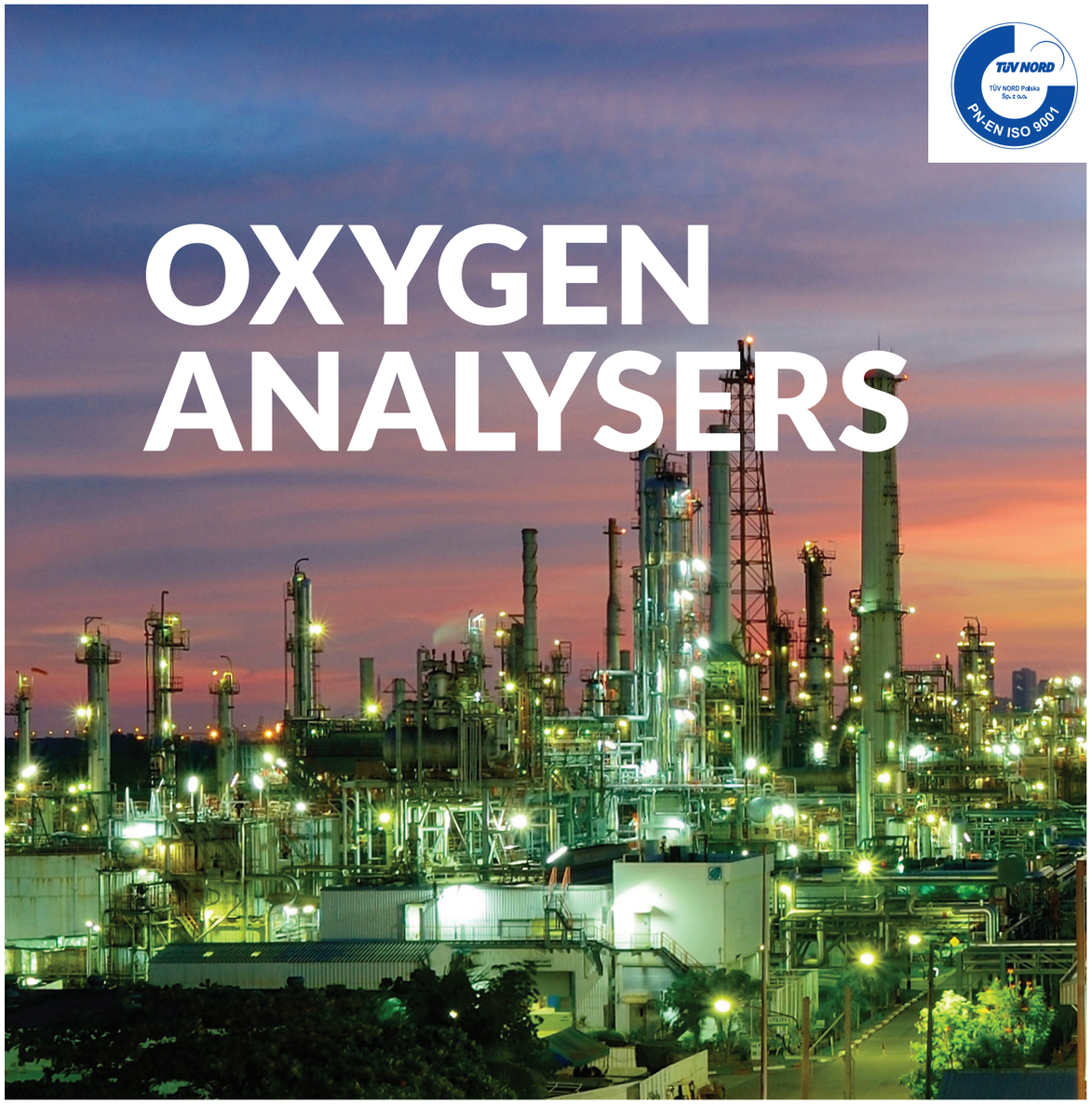

OXYGEN ANALYSERS

Analytics' oxygen analysers are designed for continuous measurement of oxygen in combustion and other industrial processes, as well as for oxygen measurement as reference values in emission measurements.

A wide range of products, distinguished by performance and quality of measurement, will meet the -requirements of most industrial installations.

analytics ltd
Analysers & Emission Monitoring

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OXYGEN ANALYSERS

FEATURES AND BENEFITS

- Simple installation and operation - 4-key user interface controlling all functions
- High quality zirconium sensors, reinforced platinum electrode layer
- High level of confidence in the product - 24* months of probe warranty
- Proven action - positive opinion of customers, many references
- On-site service and maintenance - all parts can be replaced
- Direct integration into the plant control system - Modbuds communication
- Measuring systems for most applications - a wide range of products is available

**Analytics may provide a longer warranty under specific conditions.*

SIMPLE USER INTERFACE

Simple push-button operation in combination with a clear LED display, enable full electronic control of the probe functions. Full configurations and diagnostic information can be accessed via the user interface.

COMMUNICATION

Analytics OXY provide analog and relay outputs. For customer needs, communication via Modbus or Hart is possible.

UNIQUE SYSTEM

In Analytics OXY, the control panel can be mounted directly on the probe. This allows for full local control at the point of measurement and reduces installation costs. With the possibility of disconnecting the panel, you can switch to the remote control.

MEASURING PROBE ASSEMBLY

The probe filter (for OXY in situ) is easily attached with 2 screws, while maintaining probe integrity Flame arresters are also available.

VERSATILE PROBE AND MOUNTING

Analytics OXY oxygen probes (for OXY in situ) are available in various lengths with a range of mounting flange options.

UNIVERSAL COMPABILITY

The universal control unit is fully compatible with all Analytics OXY oxygen probes. It provides remote control and operation. Displays the parameters of the probe. In addition, it can be connected to zirconium probes from most manufacturers.

PRODUCT RANGE

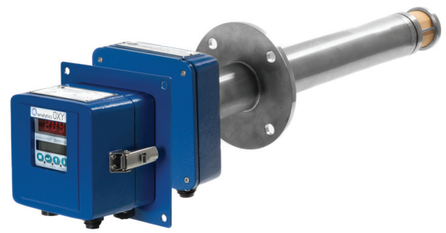
Analytics OXY 102

• low-temperature oxygen analyser

Avaliable in two options:

COMBINED VERSION - a control unit fully integrated in the probe. The measuring probe is connected to the control unit in one fully integrated system. This is the ideal choice for installations where access to the probe is easy, due to its lower cost and installation time.

SEPARATED VERSION - a control unit connected remotely to the probe. It enables direct measurement of in-situ oxygen in all combustion processes up to 700 °C /1292 °F. The readings are displayed remotely on the disconnected control unit. This option is recommended in places where access to the probe is difficult due to technical or environmental reasons.



Analytics OXY HT

• high-temperature oxygen analyser (in-situ)

OXY HT Analyser enables the measurement of oxygen content in combustion processes at temperatures up to 1250°C/2282°F. The probe is available in a variety of lengths and with protective covers to suit individual temperatures.

Analytics OXY Exd

• oxygen analyser certified for use in hazardous (in-situ) areas

Analytics OXY Exd is housed in a special protective cover that allows it to be installed in potentially explosive atmospheres.

Analytics OXY 112 BOXY

• modular oxygen analyser (extractive)

Analytics OXY 112 BOXY is designed for continuous measurement of oxygen concentrations in exhaust gas emission centers. The device consists of a measuring system and an operator panel with an easy-to-use interface. OXY 112 BOXY has been designed for installation in a measuring cabinet.