



Continuous Emissions Monitoring
and Process Control

O2000 Oxygen Analyser

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The OPSIS O2000 Oxygen analyser is designed for measuring oxygen in industrial, process and CEM applications. Since the oxygen analyser measures the oxygen contents in the flue gas in-situ, there is no need for sample extraction systems.

FEATURES

The analyser contains an embedded micro controller for fast and easy operation. It is user friendly with a 2 × 20 characters LCD display with backlight. One Oxygen analyser can handle two O₂ probes as an option. Other key features are:

- Built-in self-checks and diagnostics.
- Built-in reference pump.

The standard OPSIS Oxygen package includes an analyser and a probe with a 10 m connection cable.

If the cable length between the analyser and the probe exceeds 10 metres, a stack unit is needed to boost the signal.

OPTIONS

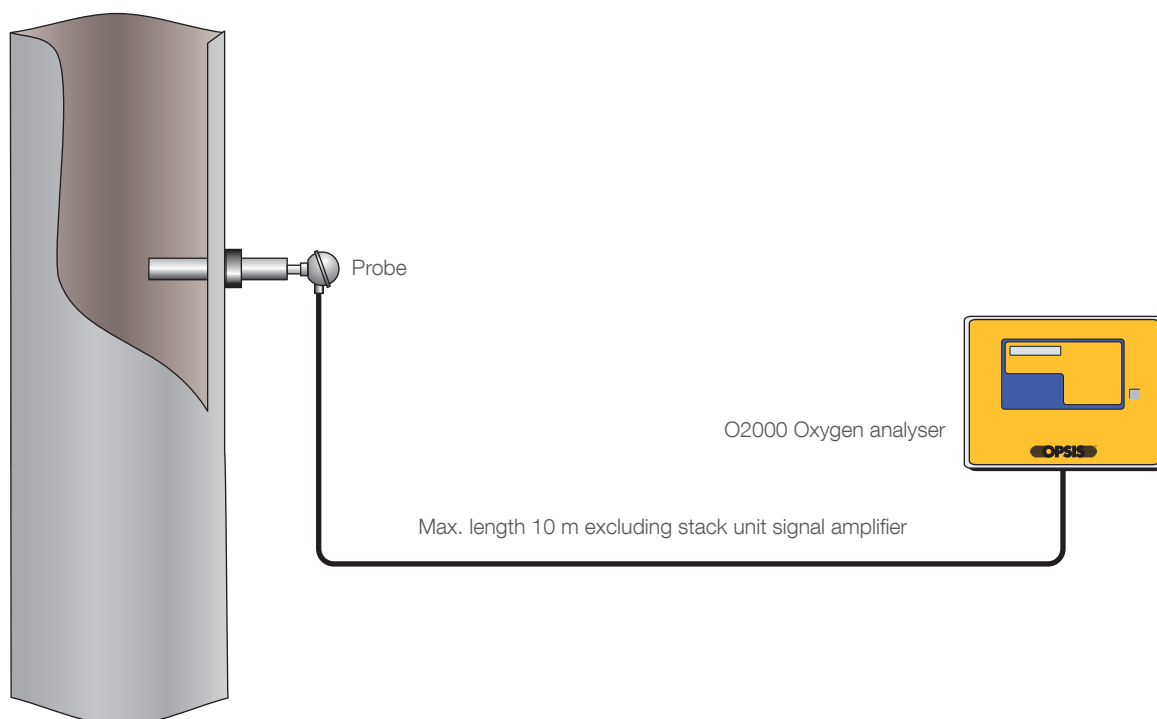
Several options are available such as:

- Extended length of the probe
- High temperature kit for process temperatures up to 1800°C
- Probe designed for very corrosive environments
- Automatic calibration set
- Flame arrester to prevent explosion in the process
- High and low O₂ alarm output
- Stainless steel monitor box
- 115 V_{AC} operation
- Stack unit signal amplifier for cable longer than 10 m
- Alarm Kit 502 – probe failure



SYSTEM OVERVIEW

An example of a standard installation of an OPSIS O2000 Oxygen analyser.



APPLICATIONS

The OPSIS O2000 Oxygen analyser could be used in many different kinds of applications.

It is especially designed for operation in continuous emissions monitoring applications and for process control.

For further details regarding references for this product, please contact OPSIS.

TEST AND APPROVALS

The O2000 Oxygen analyser has been tested and approved by a number of internationally recognized institutes and authorities, such as German TÜV and British MCERTS.

It meets the European directive, and is approved according to EN15267.

TECHNICAL SPECIFICATIONS: ANALYSER O2000

Measuring range	0.1–25.0% O ₂
Accuracy	O ₂ <10.0% ±0.01% at 2% O ₂ , O ₂ ≥10.0% ±0.1%
Linearity	<0.5% FS
Lag time	<2 sec.
Response time	<5 sec.
Warm-up time	<30 min.
Zero drift	±2% of range per month
Span drift	±2% of range per month
Power supply	100–240 V _{AC} 50–60 Hz
Power consumption	<100 VA warm up, <50 VA steady state
Output	4–20 mA
Max. load, analogue output	500 Ω
Max. load, relay contacts	220 V _{AC} 5 Amp.
Max. ambient temperature	0–50°C
Max. humidity	90% RH
Enclosure	IP 65
Dimensions old (H×W×D)	400 × 300 × 210 mm
Dimensions new (H×W×D)	300 × 380 × 210 mm
Weight	10 kg

TECHNICAL SPECIFICATIONS: PROBE

Max. stack gas temperature	500°C
Sensor type	ZrO ₂ (Zirconia)
Material	AISI 316 Stainless steel
Mounting	3" Withworth pipe thread DIN ISO 228
Total length	730 mm
Insert length	Variable 200–500 mm (EPL 1500 max. insert length 1500 mm)
Cable length	Max. 10 m, excl. stack unit
Weight	4 kg

Continuous Emissions Monitoring and Process Control by OPSIS

Continuous, in situ oxygen measurement

Complete system package for easy installation and start-up

Cost-effective monitoring of O₂

Two probes can be used with a single analyser

Well-proven design

Isolated current and alarm output

Automatic gas calibration (option)