



O_2

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Continuous Emissions Monitoring
and Process Control

O2000N Oxygen Analyser

Continuous Emissions Monitoring and Process Control O2000N Oxygen Analyser

The OPSIS O2000N Oxygen analyser is designed for measuring oxygen in industrial, process and continuous emissions monitoring applications. Since the oxygen analyser measures the oxygen contents in the flue gas directly, there is no need for sample extraction systems.

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

FEATURES

The analyser contains an embedded micro controller for fast and easy operation. It is user friendly with a 4 × 20 characters OLED display.

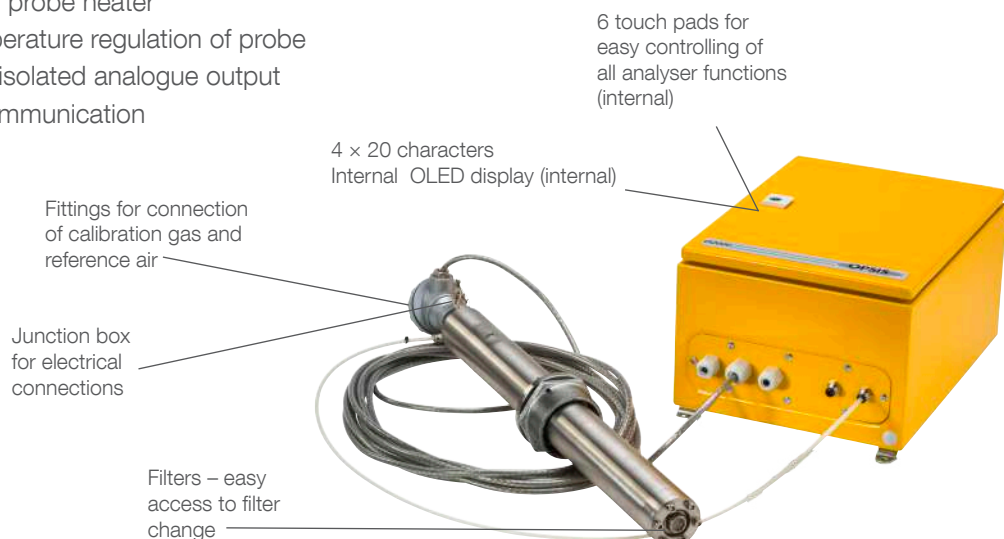
Other key features are:

- Built-in diagnostics of probe and analyser
- 115/220 V_{AC} Operation
- High and low O₂ alarm output
- System failure alarm
- Soft start of probe heater
- Active temperature regulation of probe
- Dual range isolated analogue output
- Modbus communication

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
- Flame arrester to prevent explosion in the process
- Automatic two point calibration with pump
- Automatic two point calibration for compressed air
- Up to 100 m. cable length between probe and analyser



O2000N EXTERNAL DISPLAY



O2000N INTERNAL DISPLAY



TECHNICAL SPECIFICATIONS: ANALYSER O2000N

Measuring range	0.1–25.0% O ₂
Accuracy	According to EN15267
Lag time	<2 sec
Response time	<5 sec
Warm-up time	<15 min
Power supply	100–240 V _{AC} 50–60 Hz
Power consumption	<60 VA warm up <20 VA steady state
Dual isolated analogue output	2 x 0/4–20 mA, Max. load 500 Ω
Relay output	
High level	4 x 30V _{DC} 1A,
Low Level	125V _{AC} 0.5 A
Alarm	
Calibration	
Max. ambient temperature	50°C
Max. humidity	90% RH
Enclosure	IP 65
Dimensions internal display (HxWxD)	380 x 300 x 210 mm
External display (HxWxD)	300 x 380 x 210 mm
Weight	10 kg
Isolated serial interface	Modbus RTU

TECHNICAL SPECIFICATIONS: PROBE 502N

Max. stack gas temperature	600°C
Sensor type	ZrO ₂ (Zirconia)
Material	AISI 316 Stainless steel
Mounting	3" Withworth pipe thread DIN ISO 228
Total length	390 / 730 / 1730 mm
Insert length	200 / 500 / 1500 mm
Weight	
(incl. cable and socket)	4 kg / 5.3 kg / 8.4 kg
Cable length (Standard)	10 m

Continuous Emissions Monitoring and Process Control by OPSIS

Continuous, direct oxygen measurement

Complete system package for easy installation and start-up

Cost-effective monitoring of O₂

Well-proven design

Dual isolated current and output

Modbus communication

Automatic two point gas calibration (option)