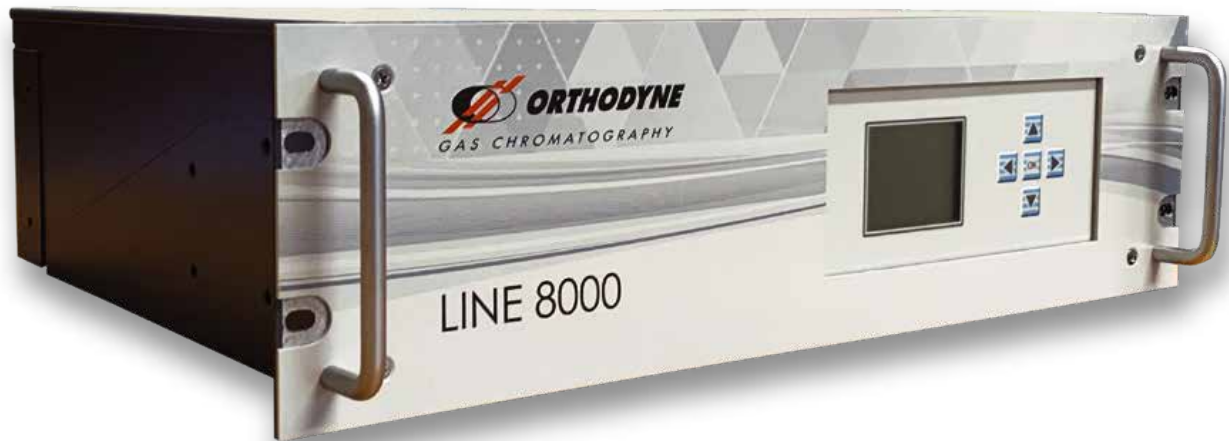


# OPM 8000

## Paramagnetic Analyzer Analysis of O<sub>2</sub> in %level and O<sub>2</sub> Purity



The automatic manufacturing process is capable of very high precision leading to levels of quality and reproducibility beyond anything that is currently available on the market.

With the possibility to set individual measuring ranges, it allows the analyzer to be easily tailored to specific measurement requirements. An outstanding characteristic of this analyzer is its long term stability. In most applications, calibration of the zero-point with ambient air or nitrogen is only required once a month. It is also suitable for measuring rapid changes in the concentration of the sample gas.

### FEATURES

- Trust in unrivalled repeatability and precision
- Assured quality through digital manufacturing
- Robust and reliable sensor reduces downtime
- Ideal for rapidly changing oxygen concentration
- Improved accuracy at high and low concentrations
- More precise control of your process!

# OPM 8000

## SPECIFICATION OPM8000

Measurement method	Paramagnetic sensor
Ranges	3 different versions: Ø95 – 100% / 98 – 100% Ø99.5 – 100% Ø0 – 10% / 0 – 25% / 0 – 100% / 70 – 100% or 85 – 100%
Analog Output signals	2 x 4..20mA configurable
Digital Output	Ethernet-10/100BASE-T (standard) 4 x D/O configurable (standard) Modbus RS232/485, Profibus DP/PA and Profinet (optional)
Linearity	≤ 0.5 % of span
Repeatability	≤ 50 ppm O <sub>2</sub>
Zero Drift	≤ 3 % of span of the smallest measurement range per week
Sensitivity Drift	≤ 0.1 Vol.-% O <sub>2</sub> per week or ≤ 1 % of measured value per week (not cumulative), whichever is smaller.
Output Fluctuation (2 σ)	≤ 25 ppm O <sub>2</sub> at electronic T90 time (static /dynamic) = 3 / 0 sec
Detection Limit (4 σ)	≤ 50 ppm O <sub>2</sub> at electronic T90 time (static /dynamic) = 3 / 0 sec
Warm-up time	< 1 hour
Response time	T90 ≤ 4 sec at a sample gas flow of 90 l/h and electronic T90 time (static/dynamic) = 3 / 0 sec, gas change from N <sub>2</sub> to air
Sample gas conditions	Temperature: +5 to 45°C Dew point: 5 °C below the temperature throughout the sample gas path Pressure: 2 – 100 hPa Flow rate: 30 – 90 L/h
Sample inlet connections	1/8 NPT female thread
Sample outlet connections	1/8 NPT female thread
Power supply	100 - 240 V AC (- 15 %, + 10 %) 50-60 Hz (± 3 Hz).
Dimensions	Rackable unit 19" - Total height: 3U (133mm) Depth: 365 mm.