

LINE / 8000

 **ORTHODYNE**[®]
GAS CHROMATOGRAPHY

OZR8000

**ZIRCONIA OXYGEN ANALYSER
IN NITROGEN/AIR/ARGON**
Control of pure gases and gas mixtures



FEATURES

- Long sensor lifetime
- Trace oxygen measurement in pure gases
- Factory preset measuring ranges 0...1/10 ppm Freely configurable up to 250 000 ppm
- Clear-text status messages
- Self-monitoring function indicates when maintenance is required

LINE 8000

SPECIFICATION OZR8000

Measurement method	Zirconium dioxide detector
Range	Factory preset 0 – 1/10ppm Freely configurable up to 250 000 ppm with ECT software
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	With such measuring principle, Zirconium Dioxide cells are base linear.
Repeatability	< 1 % of the measurement range or 100 ppb O ₂ (whichever is greater)
Zero Drift	< 1 % of the measurement range per week or 250 ppb O ₂ (whichever is greater)
Sensitivity Drift	<1 % of measurement range per week or 250 ppb (whichever is greater) for pure samples.
Output Fluctuation (2 σ)	< \pm 0.5 % of the measured value or 50 ppb O ₂ (whichever is greater)
Detection Limit (4 σ)	< \pm 1 % of the measured value or 100 ppb O ₂ (whichever is greater)
Warm-up time	< 15 minutes
Response time	T90 < 60 sec at a sample gas flow of 8 l/h and electronic T90 time (static/dynamic) = 3 /0 sec
Sample gas conditions	Temperature: +5 to 50°C Dew point: 5 °C below the temperature throughout the sample gas path Pressure: \leq 70 hPa, outlet pressure: atmospheric Flow rate: 4 – 20 L/h
Sample inlet connections	3mm Swagelok [®]
Sample outlet connections	1/8 NPT internal thread
Power supply	100 - 240 V AC (- 15 %, + 10 %) 50-60 Hz (\pm 3 Hz).
Dimensions	Rackable unit 19'' - Total height: 3U (133mm) Depth: 365 mm.