LINE 8000

ORTHODYNE®
GAS CHROMATOGRAPHY

OPM 8000

PARAMAGNETIC ANALYSER

Analysis of O_2 in % level and O_2 Purity

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!

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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_2
Zero Drift	≤ 3 % of span of the smallest measurement range per week
Sensitivity Drift	≤ 0.1 Vol.-% O_2 per week or ≤ 1 % of measured value per week (not cumulative), whichever is smaller.
Output Fluctuation (2 σ)	≤ 25 ppm O_2 at electronic T90 time (static /dynamic) = 3 / 0 sec
Detection Limit (4 σ)	≤ 50 ppm O_2 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_2 to air
Sample gas conditions	Temperature: +5 to 50°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	⅛ NPT female thread
Sample outlet connections	⅛ 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.

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