

LINE 8000

 **ORTHODYNE**[®]
GAS CHROMATOGRAPHY

IR8000

NON-DISPERSIVE INFRARED ABSORPTION

Analysis of ppm levels for N_2O , CO_2 or CO in Air / Ar / O_2 / N_2



FEATURES

- Highly selective measurement in different sample gas mixtures / applications
- High stability of measurement
- Cross sensitivity correction
- Various measuring ranges (two programmable)
- Special version available for Medical applications to measure CO and CO_2 ppm in Air, O_2 and N_2

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SPECIFICATION IR8000

Measurement method	Non-Dispersive Infrared Absorption
Range	2 measurement ranges configurable
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	≤ 1 % of span
Repeatability	≤ 0.5 % of span
Zero Drift	≤ 1 % of span per week
Sensitivity Drift	≤ 1 % of measured value per week
Output Fluctuation (2 σ)	≤ 0.2 % of span at electronic - T90 time (static/dynamic) = 5/0 sec
Detection Limit (4 σ)	≤ 0.4 % of span at electronic - T90 time (static/dynamic) = 5/0 sec
Warm-up time	Approx. 30 minutes without thermostat, approx. 2 hours with thermostat
Response time	T90 = 2.5 sec for measurement cell length = 175 mm, sample gas flow = 60 l/h and electronic T90 time (static/dynamic) = 5 / 0 sec.
Sample gas conditions	Temperature: +5 to 45°C Dew point: 5 °C below the temperature throughout the sample gas path Pressure: atmosphere, permissible: 800 – 1250 hPa Flow rate: 20 – 100 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.