

LINE / 8000

 **ORTHODYNE**<sup>®</sup>  
GAS CHROMATOGRAPHY

# TCD8000

## THERMAL CONDUCTIVITY ANALYSER

*Analysis of % level for different binary mixtures*



### FEATURES

- Short response time
- Stable for extremely long periods of time
- Freely selectable measuring ranges
- More than 30 gas mixtures are configurable
- Standard gas avoids the need for separate zero – and end-point calibration
- No reference gas necessary!

# LINE 8000

## SPECIFICATION TCD8000

Measurement method	Difference in thermal conductivity of various gases
Range	Freely selectable measuring ranges
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	≤ 2 % of span
Repeatability	≤ 1% of span
Zero Drift	≤ 2 % of span of the smallest measurement range per week
Sensitivity Drift	≤ 0.5 % of smallest possible measurement range per week
Output Fluctuation (2 $\sigma$ )	≤ 0.5 % of smallest measurement range span at electronic - T90 time = 0 sec
Detection Limit (4 $\sigma$ )	≤ 1 % of smallest measurement range span at electronic - T90 time = 0 sec
Warm-up time	Approx. 30 minutes, 90% Response Time
Response time	T90 ≤ 2 sec at sample gas flow of 60 l/h and electronic, T90 time (static /dynamic) = 0/0 sec
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: 10 – 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.