



MIR9000CLD

Emissions & Process Gas Analyser



The MIR 9000 CLD uses the chemiluminescence detection principle which allows the MIR 9000 CLD to offer the lowest QAL 1 certified range of the CEMS market.

High performance for NO_x measurements, including O₂ by paramagnetic sensor.

Unique : 20 mg/Nm³ QAL 1 certified range

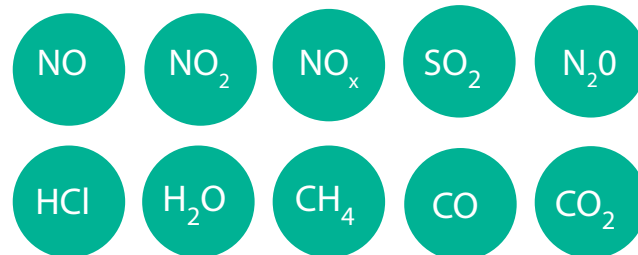
Available in 2 versions:

- NO_x (CLD) and O₂ (Paramagnetic) in 19" Rack or Tight box
- CO, CO₂, SO₂, HCl, HF, TOC, N₂O (IR) + NO_x (CLD) + O₂ in Tight box

Leading Edge Technology

- Built-in data logger for 7 additional parameters (flow, pressure, temperature or any other analogue input)
- On-board oxygen measurement for environmental reporting
- Measures from 1 to 10 gases simultaneously
- Highly accurate, excellent stability with automatic optical stability check
- Over 2500 installations worldwide, covering many applications and industries

Gases analysed



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KEY FEATURES

- Chemiluminescence Standard Reference Method for low & ultra low NO_x
- Fast & simultaneous measurements of up to 10 gases
- Automatic cross interference correction
- Dry-basis measurement technique
- MCERT & TÜV compliant

Technical Specification

GENERAL

- In-situ multi-gas monitoring system
- IED compliant
- Internal data logger
- Optional; flow, temperature and pressure monitoring

APPLICATIONS

- Industrial boilers & furnaces
- Chemical & petrochemical plants
- Upstream / downstream gas treatment
- Process control

PHYSICAL

- Dimensions: 200 x 600 x 600mm (DxWxH)
- Probe length: 700 x 1000 x 1500mm
- Weight: Up to 32kg

PERFORMANCE

- Number of gases monitored: up to 10
- External analog inputs: 7
- Operating temperature: +5°C to +40°C
- Data storage: last 3000 averages
- Digital output: RS232/422, Ethernet
- Power: 80/230VAC, 50/60Hz,
- Power Consumption: 300VA

CERTIFIED RANGES

- NO: 0-100mg/m³ - 0-500mg/m³
- N₂O: 0-20mg/m³ - 0-200mg/m³
- CO: 0-75mg/m³ - 0-500mg/m³
- CO₂: 0-25%
- SO₂: 0-75mg/m³ - 0-200mg/m³
- HCl: 0-15mg/m³ - 0-100mg/m³
- CH₄: 0-10mg/m³ - 0-200mg/m³
- O₂: 0-10% - 0-25%

SPAN & DRIFT

- Repeatability: >2% of full scale
- Zero drift: >2% of full scale/30 days
- Span drift: >1% of full scale/30 days
- Linearity: ± 1% of full scale

COMPLIANCE

- EU Regulation IED (WID / LCPD / MCPD directives)
- MCERTS certified to EN15267-3
- QAL1 as defined by EN15267-3
- QAL3 compliance to EN15267-3

Complete systems would normally comprise of;

- Rack cabinet, cubicle or shelter integration
- Sample extraction and conditioning probe (with integrated temperature, pressure and flow measurement)
- Cold sample lines
- Calibration module
- Instrument air drying modul
- a1-cbiss Data Acquisition Software (CDAS)