

# MIR 9000e

NDIR-GFC MULTI-GAS ANALYZER



Eco-designed, ultra-compact, smart & connected, the MIR 9000e is your next analyser to measure multiple combustion exhaust gases

## FEATURES AND BENEFITS

- Superior metrological performances for up to 8 simultaneous gases:  
NO<sub>x</sub>, SO<sub>2</sub>, CO, CH<sub>4</sub> and N<sub>2</sub>O by Non-Dispersive Infrared Gas Filter Correlation (NDIR-GFC)  
O<sub>2</sub> by zirconia sensor
- An environmental-friendly and cost-saving analyzer, with ultra low power consumption
- User-friendly design and reduced maintenance to optimize OPEX
- Drying technologies compatibility (gas cooler, permeation, dilution)
- Smart analyzer including AMS control
  - integrated sampling control,
  - automatic zero and span gas injection
  - external pump control
  - system alarms display
- Includes embedded Communication Protocol for WEX<sup>®</sup> Management Software with automatic recognition and configuration
- Service assistant inside: allows predictive maintenance for increased productivity on site, reduced downtime & more efficiency



COMPLIANT WITH:  
QAL 1 EN 15267-3  
QAL 3 EN 15267-3



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## TECHNICAL SPECIFICATIONS

<b>Zero drift</b>	< 2% FS / 1 month	<b>Tests and maintenance diagnostics</b>	Yes
<b>Span drift</b>	< 2% FS / 1 month	<b>Standard I/O</b>	Modbus TCP, Modbus RTU (dongle), UDP protocol, RJ45
<b>Linearity</b>	< 1% FS	<b>Optional I/O</b>	4 to 8 analog outputs (0-1 V, 0-10 V, 0-20 mA, 4-20 mA) 6 to 12 output relays 4 to 8 logical inputs
<b>Sample flow-rate</b>	Approx 25 l/h	<b>USB port</b>	Type A USB socket: 2.0 (3.0 compliant)
<b>HMI Display</b>	TFT LCD color screen, resolution: 800 (RGB) x 480, size: 7 inches	<b>External SV control</b>	Screw terminal connector for up to 5 SV (solenoid valves): Measurement, Zero, Span 1, Span 2, Probe / Analyzer
<b>HMI</b>	Touch screen & graphic display	<b>Weight &amp; Dimensions (D x W x H)</b>	10.4 kg / 23 lbs - 19" rack, 3U; 483 x 330 x 133 mm
<b>Power supply</b>	100~250 Vac, 50/60 Hz + ground		
<b>Energy consumption</b>	Warm-up: 110 W / 160 VA; Measuring 50 W / 75 VA		
<b>Working temperature</b>	+5°C to 40°C		
<b>Memory storage of measurement values</b>	Capacity: 1 year based on 1-min intervals		
<b>Alarms checks</b>	Yes		

## MEASURING RANGES

Pollutant	mg/m <sup>3</sup>	ppm	%
<b>NOx as NO<sub>2</sub> (after NOx converter)</b>	0 - 100* / 1,500* / 5,000	0 - 50* / 750* / 2,500	
<b>SO<sub>2</sub></b>	0 - 75* / 1,500* / 8,500	0 - 25* / 500* / 3,000	
<b>CO</b>	0 - 75* / 3,000* / 10,000	0 - 60* / 2400* / 8,000	
<b>CH<sub>4</sub></b>	0 - 50* / 200* / 1,000	0 - 70* / 280* / 1,400	
<b>N<sub>2</sub>O</b>	0 - 50* / 200* / 1,000	0 - 25* / 100* / 500	
<b>CO<sub>2</sub></b>			0 - 25% / 0 - 30%
<b>O<sub>2</sub></b>			0 - 25%
<b>Residual H<sub>2</sub>O</b>			0 - 2%

\* QAL1 certified range. ppm values for information purposes only

## MAIN OPTIONS

- Up to 5 SV (external)
- I/O modules (external)
- O<sub>2</sub> measurement (internal)
- NOx converter
- External sampling pump
- External filter cartridge (CO<sub>2</sub>)
- USB to RS232/RS485 converter
- Automated drift control function

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**MIR 9000e Datasheet**  
MIR 9000e NDIR-GFC Multi-Gas Analyzer  
Specifications subject to change without notice.

ISO 45001:2018  
ISO 14001:2015  
ISO 9001:2015  
**CERTIFICATION**

www.envea.global