

MIR
9000P



Portable multi-gas analyzer

Save time all along your stack emission testing process

8

SIMULTANEOUS PARAMETERS

NO_x, SO₂, CO, CO₂, CH₄, N₂O, O₂ and residual H₂O

Accuracy and extended measuring ranges

Compliant with
international directives &
regulations

EN 15267-4

Meets the highest
European & U.S. standards
for Portable-Automated
Measuring Systems



THE MIR 9000P

belongs to the new generation of ENVEA gas monitors, showcasing eco-design, IoTs and on-board intelligence. It measures simultaneously 8 gases and uses the non-dispersive infrared method with gas filter correlation (NDIR-GFC). O₂ is measured by a SRM built-in **paramagnetic** sensor.

The analyzer has been designed to meet the specific needs of on-site regulatory measurement providing superior mobility, robustness, accuracy and compliance.

All this makes up for a unique gas emission monitor offering high productivity and low operational cost.

INCREASED MOBILITY & PRODUCTIVITY

- > All-in-one case design for easy transport/storage
- > Lightweight, compact and extra resistant transport case



L 641 mm
H 393 mm
D 209 mm



15 kg
33 lbs



30 MIN
AUTONOMY
(option)

- > The analyzer operational temperature can be maintained:
 - in between stack controls (optional battery unit)
 - in transport, through the 12 V car plug (adaptor not provided)

- > Standby mode guarantees the instrument is operational at any time

✓ Maximizes the number of stacks tested

ROBUST DESIGN

- > Built-in vibration absorber ensures measurement cell protection and stability
- > Extended operating temperature ranges
- > High protection (IP 44) against water splashing from any direction

✓ Whatever the weather, it operates!



40°C



IP44



STAY CONNECTED & GET ON WITH OTHER TASKS

- > Remote access to full operation thanks to ENVEA Connect™ App and proprietary WiFi
- > Smartphone alerts and notifications
- > IoT ready: software update, TCP/IP access...



Operates case closed or open



FREE APP



PLUG & PLAY

QUICK INSTALLATION

- > Warm-up time: 30 min maximum
- > Robust gas connectors
- > Self-adaptive measuring scales
- > Compatible with most sampling systems on the market



ONE CLICK OPERATIONS

- > Integrated user guidance and shortcuts to key functions: calibrations, span check, zero, etc.
- > Synoptic with real-time status
- > Secured user management



ANALYZER STATUS AT A GLANCE

- > Front side indicator provides key status info to the user



- ✓ No more comings & goes to open the lid and check on the analyzer

PREPARE REPORT ELEMENTS WHILE ON SITE



- > Direct access to real-time and stored data; time frame selection to generate graphs
- > Screenshot function for quick integration into reports
- > Redundant and secured data back-up
- > All data can be saved on USB memory stick



MAXIMIZED UPTIME OF THE ANALYZER

- > Modular design and Plug & Play parts (O₂ probe, NOx converter, protection filter, etc.)
- > Share the analyzer's state of health and get remote diagnosis & support



- > Turn-up lid designed for quick access to operational modules and easy maintenance

SYSTEM & ACCESSORIES



MIR 9000P



Gas conditioning unit



Heated line



TECHNICAL SPECIFICATIONS	
Measured gases	SO ₂ , NO or NO _x , CO, CO ₂ , N ₂ O, CH ₄ , O ₂ and residual H ₂ O
Measuring units (programmable)	ppm, mg/m ³ or % vol.
Parameters	Typical measuring ranges
SO ₂	0-141/1410/8500 mg/Nm ³ 0-50/500/3000 ppm
NO _x as NO (after NO _x converter)	0-70/2000/3300 mg/Nm ³ 0-50/1500/2500 ppm
NO _x as NO ₂ (after NO _x converter)	0-110/3000/5000 mg/Nm ³
CO	0-60/3000/8000 mg/Nm ³ 0-50/2400/6500 ppm
CO ₂	0-20/30% vol.
N ₂ O	0-1000 mg/Nm ³ 0-500 ppm
CH ₄	0-70/700 mg/Nm ³ 0-100/1000 ppm (higher range upon request)
O ₂	0-10/25% vol. Measured by a built-in paramagnetic sensor
Residual H ₂ O	0-2% vol.
Repeatability	±2%
Zero drift	±2% / 30 days
Span drift	±2% / 30 days
Linearity	±1% of Full Scale
Resolution	< 0.1 ppm (CO ₂ : < 0.1%)
Response time	1 minute as standard, programmable
Dimensions (L x H x D)	641 x 393 x 209 mm
Weight	15 kg / 33 lbs
Protection class	IP 44 (case closed)
Operating temperature	+5 to +40°C
Power supply	100-250VAC, 50/60Hz + ground
Energy consumption (except accessories)	Preheating: 120 W / 160 VA Measurement: 60 W / 75 VA
Sample flow-rate	6.66 × 10 ⁻⁶ m ³ /s (0.4 l/min.)
Display & Control	Color touchscreen, TFT LCD 7", resolution: 800(RGB) x 4480
Internal storage of measurement data	1 year for 1 minute data/ 1 month for 5 sec
Standard I/O	3 x USB ports type A: 2.0 (compatible 3.0) 1 x RJ45 (MODBUS TCP, MODBUS RTU (dongle) UDP Protocol) WiFi (via USB) Analog input: 0-250 mV or 0-1 V
Connectivity	iOS, Android : via IP address or free ENVEA Connect™ App Computer (via any browser, TCP/IP)
Options	<ul style="list-style-type: none"> • 8 analog outputs (0-1 V, 0-10 V, 0-20 mA, ou 4-20 mA) • 8 analog inputs, 0-2.5 V • 12 digital outputs by dry, potential free, contact relay
Battery	Type: AA 2800 mAh (min. 2650 mAh) NiMH 1,2 V x 20
System accessories	<ul style="list-style-type: none"> • Portable gas sample probe electrically heated with calibration gas feeding. • Portable sample conditioning system equipped with high-performance Peltier gas cooler. • Heated sample line with multi-pin plug on-off electronic temperature controller.

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