

Portable multi-gas analyzer Save time all along your stack emission testing process

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

 H_2C 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

ALEL Ambiental

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.

Ω

15 kg

33 lbs

INCREASED MOBILITY & PRODUCTIVITY

641 mm

393 mm

209 mm

All-in-one case design for easy transport/storage

Lightweight, compact and extra resistant transport case



- > 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

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

Whatever the weather, it operates!

Vae

40°C

IP44

STAY CONNECTED & GET ON WITH OTHER TASKS

6 ? i

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



H20 4.3 ppm

Operates case closed or open





PLUG &PLAY

S. Ash

QUICK INSTALLATION

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

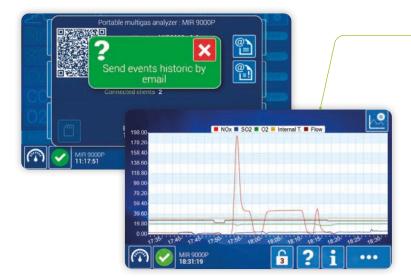
ONE CLICK OPERATIONS

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





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

Sampling probe

SYSTEM & ACCESSORIES

TECHNICAL SPECIFICATIONS

NOx as NO (after NOx converter)

NOx as NO₂ (after NOx converter)

Measuring units (programmable)

Measured gases

Parameters

SO

CO

CO₂

N₂O

CH₄

O₂

Residual H₂O

Repeatability

Zero drift

Span drift

Linearity

Weight

Resolution

Response time

Protection class

Sample flow-rate

Display & Control

Standard I/O

Connectivity

Options

Power supply

Dimensions (L x H x D)

Operating temperature

Energy consumption (except accessories)

Internal storage of measurement data

1/0

Battery





0/50*/700*/3000 ppm

0/50*/1500*/2500 ppm

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ppm, mg/m³ or % vol.

Gas conditioning unit

Typical measuring ranges

SO₂, NO or NOx, CO, CO₂, N₂O, CH₄, O₂ and residual H₂O

0/143*/2000*/8600 mg/Nm3

0/70*/2000*/3300 mg/Nm3

0/107*/3100*/5000 mg/Nm3

eated line	
)	

0/10//J100/J000 mg/1m	
0/70*/3000*/8000 mg/Nm ³	0/60*/2500*/6500 ppm
0-20/30% vol.	
0/50/150*/450*/980 mg/Nm ³	0/25/75*/225*/500 ppm
0/50/100/300/3600 mg/Nm ³	0/70/140/400/5000 ppm
0-10/25% vol. Measured by a built-in p	paramagnetic sensor
0-2% vol.	
±2%	
±2% / 30 days	
±2% / 30 days	
±1% of Full Scale	
< 0.1 ppm (CO ₂ : < 0.1%)	
1 minute as standard, programmable	
641 x 393 x 209 mm	
15 kg / 33 lbs	
IP 44 (case closed)	
+5 to +40°C	
100-250VAC, 50/60Hz + ground	
Preheating: 120 W / 160 VA Measurement: 60 W / 75 VA	
6.66 × 10 ⁻⁶ m ³ /s (0.4 l/min.)	
Color touchscreen, TFT LCD 7", resolut	ion: 800(RGB) x 4480
1 year for 1 minute data/ 1 month for 5 s	ec
3 x USB ports type A: 2.0 (compatible 3 1 x RJ45 (MODBUS TCP, MODBUS RTU WiFi (via USB) Analog input: 0-250 mV or 0-1 V	
iOS, Android : via IP address or free EN Computer (via any browser,TCP/IP)	VEA Connect™ App
 8 non-isolated analog outputs (0-1 V, C common ground and user programma 8 non-isolated analog inputs 0-2.5 V 8 isolated digital inputs 12 digital outputs by potential free relations 	able scales
Type: AA 2800 mAh (min. 2650 mAh)	NiMH 1,2 V x 20
 Portable gas sample probe electrically Portable sample conditioning system e gas cooler. Heated sample line with multi-pin plut controller. 	equipped with high-performance Peltier
anges	Distributed by





System accessories gas cooler. · Heated sample line with multi-pin plug on-off electronic ten controller. *certified ranges Tested AMS Distribu Regular Surveillance www.tuv.com ID 0000074634



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