

## **THE MIR 9000P**

> Extended operating temperature ranges

High protection (IP 44) against water splashing from any direction

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**). O<sub>2</sub> 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.



Whatever the weather, it operates!

**IP44** 







## **QUICK**INSTALLATION

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



## PREPARE REPORT ELEMENTS WHILE ON SITE





## SYSTEM & ACCESSORIES









MIR 9000P

Gas conditioning unit

TECHNICAL SPECIFICATIONS	50 NO - NO - NO CO	on all manifely all III O	
Measured gases	SO <sub>2</sub> , NO or NOx, CO, CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub> , O <sub>2</sub> and residual H <sub>2</sub> O		
Measuring units (programmable)	ppm, mg/m³ or % vol.		
Parameters	Typical measuring ranges		
SO <sub>2</sub>	0-141/1410/8500 mg/Nm <sup>3</sup>	0-50/500/3000 ppm	
NOx as NO (after NOx converter)	0-70/2000/3300 mg/Nm <sup>3</sup>	0-50/1500/2500 ppm	
NOx as NO <sub>2</sub> (after NOx converter)	0-110/3000/5000 mg/Nm <sup>3</sup>		
CO	0-60/3000/8000 mg/Nm <sup>3</sup>	0-50/2400/6500 ppm	
CO <sub>2</sub>	0-20/30% vol.		
$N_2O$	0-1000 mg/Nm <sup>3</sup>	0-500 ppm	
CH <sub>4</sub>	0-70/700 mg/Nm <sup>3</sup>	0-100/1000 ppm (higher range upon request)	
O <sub>2</sub>	0-10/25% vol. Measured by a built-in paramagnetic sensor		
Residual H₂O	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 <sub>2</sub> : < 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 x 10 <sup>-6</sup> m <sup>3</sup> /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 I/O	<ul> <li>8 analog outputs (0-1 V, 0-10 V, 0-20 mA, ou 4-20 mA)</li> <li>8 analog inputs, 0-2.5 V</li> <li>12 digital outputs by dry, potential free, contact relay</li> </ul>		
Battery	Type: AA 2800 mAh (min. 2650 mAh) N	Type: AA 2800 mAh (min. 2650 mAh) NiMH 1,2 V x 20	
System accessories	<ul> <li>Portable gas sample probe electrically heated with calibration gas feeding.</li> <li>Portable sample conditioning system equipped with high-performance Peltier gas cooler.</li> <li>Heated sample line with multi-pin plug on-off electronic temperature controller.</li> </ul>		

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