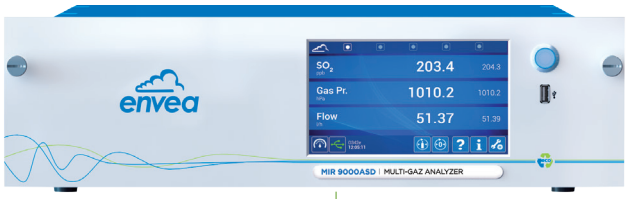
MIR 9000 ASD

NEW GENERATION ★★★★★

UV Fluorescence Sulfur Dioxide Analyzer

PROCESS & EMISSIONS MONITORING SYSTEMS

Eco-designed, ultra-compact, smart & connected continuous SO_2 analyzer, specifically designed for emission or process gas monitoring.



ENVEA Connect™
Free Apps
iOS / Android

CD Cold Dry Extractive sampling
(Dry Basis Analysis)

SPECIFIC FEATURES:

- Superior metrological performances for SO_2 measurements in the range 0-100/1000 mg/m³
- Extractive analyzer, perfectly suitable for Flue-gas desulfurization (FGD) applications
- Compatible with any type of drying technology: gas cooler, permeation dryer, etc.
- Real-time calibration graph, animated synoptic, auto-diagnostic, control and maintenance data screens can be displayed while the instrument is operating
- Interference free and fast measurement
- Interactive menu-driven software allowing ease of operation
- Highly accurate, excellent stability
- Proactive, user-friendly remote communication
- Economical, easy and reduced maintenance
- Ultra low power consumption: an environmentally-friendly and cost-saving analyzer
- Smart analyzer including AMS control functionnalities: integrated sampling control, automatic zero and span gas injection, external pump control, system alarms display...
- Includes embedded Communication Protocol for WEX® Management Software with automatic recognition and configuration

MAIN APPLICATIONS:

› SO_2 removal efficiency in processes using FGD
› Municipal and Hazardous Waste Incinerators
› Industrial Boilers and Furnaces
› Power & Combustion
› Cement Kilns, Chemical, Petrochemical Plants

COMPLIANCE WITH:

TÜV approved as suitable for use as exhaust measurement at industrial plants.

TÜVRheinland® CERTIFIED
Tested AMS Regular Surveillance
www.tuv.com ID 0000051692

U.S. EPA COMPLIANT
40 CFR 60 ET 75

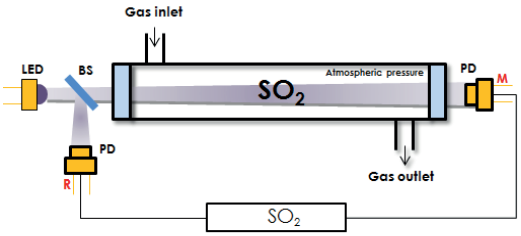
UV Fluorescent SO_2 analyzer **MIR 9000ASD**

PRINCIPLE OF OPERATION:

The MIR 9000ASD is a continuous SO_2 analyzer.

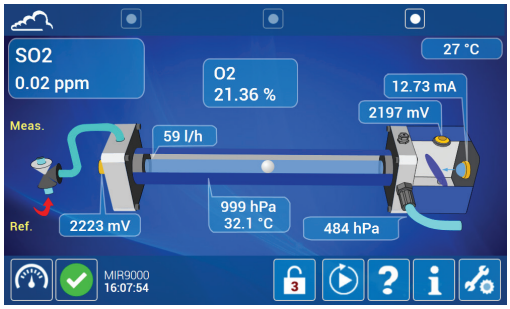
Its measurement principle is based on the Beer-Lambert law related to the direct absorption spectroscopy technique. The sample is aspirated by an internal pump through a Teflon tube (6 mm external diameter) connected to the rear panel of the analyzer.

Eco-designed, the gas monitor utilizes the most recent optical and electronic technologies offering superior connectivity, increased accuracy and robustness, while requiring only limited maintenance.



LED current feedback in real time

Continuous UV energy control



Real-time, animated diagram on display

TECHNICAL SPECIFICATIONS

Measurement range	0-100 / 0-1000 / 0-4285 mg/m³ - 0-35 / 0-350 / 0-1500 ppm
Minimum detectable limit (2σ)	0.2 ppm (response time: 50 sec)
Noise (σ)	0.1 ppm (response time: 50 sec)
Zero drift	< 0.1 ppm / 7 days
Span drift	< 0.1 ppm / 7 days
Linearity	± 1 %
Response time (0-90 %)	20 - 90 sec (programmable)
Sample flow-rate	20-25 liter/hour
Display	TFT LCD color touch-screen, resolution: 800 (RGB) x 480, size: 7"
Communication	MODBUS/RTU, MODBUS/TCP, MODE4, UDP protocol
Output connectivity	Ethernet (RJ45), 3 x USB ports, 2 dry contacts outputs included
Output connectivity (option)	4 analog outputs (0-1 V, 0-10 V, 0-20 mA, 4-20 mA), RS232/RS485
Memory capacity	1 year based on 15-min intervals
Alarms management	Continuous detection and identification of anomalies: temperature, flow rate, electric parameters, programmable threshold
Maintenance tests and diagnostics	Direct access through the touch screen, remotely, through the ENVEA Connect app or DAHS software
Operating temperature	+5 °C to +40 °C
Power supply	100~250Vac, 50/60Hz + ground
Energy consumption for 220 V (or optionl 24 V power supply)	50 W (23 W/h with optional 24 V PS)
Zero/span external SV control	Contact connector with screw terminals
Pressure and temperature compensation	
Dimensions L x D x H (mm)	483x606x133 mm; 19" rack, 3U
Weight	9 kg (19.9 lbs)

Complete systems would include:

- Sample extraction probe
- SEC® sampling system (permeation based) or gas cooler
- Sample lines
- Multiplexing system (MVS)
- Automatic calibration units
- Instrument air drying system (MDS)
- Rack cabinet, cubicle or shelter integration
- WEX™ data acquisition, management & environmental reporting software (DAHS)

envea
KNOWLEDGE IN ACTION

ENVEA (Headquarters)
111 Bd Robespierre - CS 80004
78300 Poissy / Cedex 4 - FRANCE
☎ +33(0)1 39 22 38 00
✉ info@envea.global

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

Visit us on:
www.envea.global