

Compact multi-parameter IR GFC monitoring system

**Continuous
Emission
Monitoring**



QAL 1 certified (WID and LCPD)



Stack installation



In situ short extractive AMS:

- Automated Measuring System for: SO₂, NO_x, CO, CO₂, O₂ ...
- Option: flow, temperature and pressure monitoring

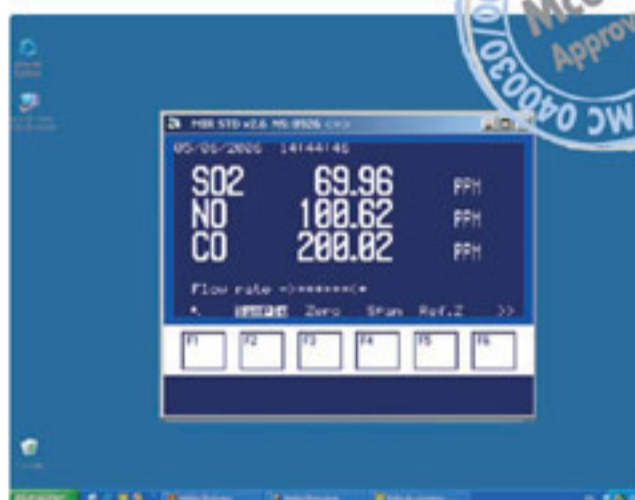
Applications:

- Industrial Boilers & Furnaces
- Cogeneration
- Power Plants and Gas Turbines
- Chemical & Petrochemical Plants
- Waste Incineration: upstream/downstream gas treatment
- Process Control
- ...



Exclusive features:

- Ease of installation: single stack entry, sample line not required
- Dynamic calibration with user-programmable zero & span check
- Built-in data logger for up to 7 additional parameters (flow, pressure, temperature and external analog inputs)
- Thermo-regulated measuring chamber and correlation wheel
- Vortex-cooled detector
- Full PC remote emulation for remote diagnosis and maintenance with ConTACT™ software
- LCD display and interactive menu driven software



Remote Control



Compact multi-parameter monitoring system

Specifications:

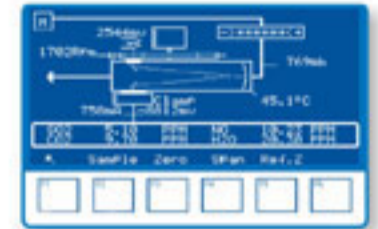
- Number of monitored gases: up to 10
- External analog inputs: up to 7
- LCD graphic display
- Repeatability : $\pm 2\%$ of full scale
- Zero drift : $\pm 2\%$ of full scale/30 days
- Span drift : $\pm 2\%$ of full scale/30 days
- Linearity : $\pm 1\%$ of full scale
- Lowest detectable limit: $\pm 2\%$ of full scale
- Average value: programmable
- Data storage: last 3 000 averages (e.g. 1 month of 15 min. average)
- Span injection control
- Digital output: RS 232/ 422 isolated
- Housing: tight box
- Dimensions (DxWxH): 200 x 600 x 600 mm
- Probe length: 700 mm, 1 000 mm or 1 500 mm
- Weight: 30 Kg approx. (66 lbs.)
- Power: 115 / 230 VAC, 50 / 60 Hz, 700 VA
- Operating temperature: -15°C to $+50^{\circ}\text{C}$
- Air consumption: 7 Nm³/h, 5 bars mini

Options and accessories

- Wide selection of sampling probes
- Flow, Temperature and Pressure monitoring
- O₂ measurement by internal paramagnetic sensor
- Analog output: 0-1V / 0-10V / 0-20 mA / 4-20 mA programmable
- External TIG automatic span gas injection module
- External air purifier CO-COV scrubber
- CEMS software WinSCAN™
- ConTACT™ software for full PC remote emulation for remote diagnosis & maintenance

Multigas monitoring

In less than 40 milliseconds, the MIR-IS monitors each selected gas by infrared Gas Filter Correlation principle. This technology eliminates cross-sensitivity from other present gases and provides high accuracy.



Other parameters (Flow, Temperature, Pressure) and corrections

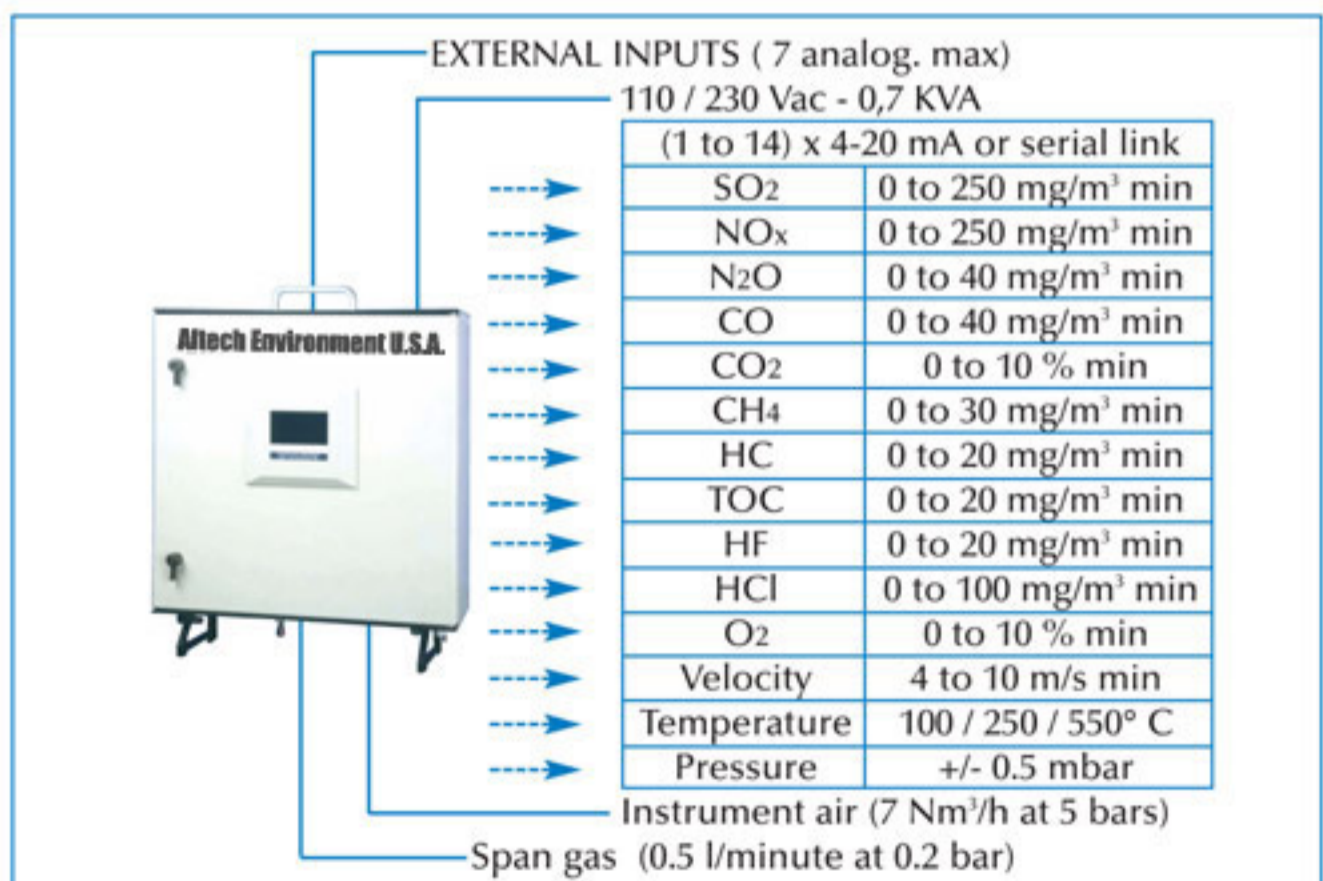
An optional Pt100 and Pitot tube built-in the sampling probe allows the MIR-IS to additionally monitor the flue gas pressure, temperature and flow rate and perform corrections to normal conditions.

Up to 7 external analog inputs can be connected to the MIR-IS (from an opacimeter...)



Data Acquisition

A dedicated microprocessor handles the acquisition and computes the data. These data can then be formatted as ASCII files by the MIR-IS and downloaded by a remote computer, for further data processing and for preparing of a monitoring report.



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