



New Compact Multi-gas Emissions analyzer

Continuous Emissions Monitoring

A unique analyzer for emissions monitoring:
NO, NO₂, NO_x, N₂O, CO, CO₂, SO₂ and O₂



Applications:

- Gas Turbines
- Co-generation plants
- Combustion plants and package boilers
- Chemical plants and refineries
- Process control
- Control laboratories

Other applications:

- Ambient air
- Work place monitoring
- Road tunnel air quality

Key features:

- **Detection technology:**
 - Chemiluminescence for NO, NO_x and NO₂
 - Infrared Gas Filter Correlation for CO, CO₂, N₂O and SO₂
 - Paramagnetic sensor for O₂
- Data acquisition and processing of other parameters
- Remote access for real-time data and diagnostics
- 2 microprocessors - one for communication and the other for diagnostics
- Real-time diagnostics screens
- Information menus, graphical interface and memory storage
- Surface-mounted component technology



Remote access via modem for diagnostics



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Specifications :

- Repeatability: <2% of the full scale (F.S)
- Zero drift : <2% F.S / 30 days
- Span drift : < 1% F.S / 7 days
- Linearity : < 1% F.S
- Power : 80 - 230V, 50-60 Hz
- Consumption : 300 VA
- Serial link: RS232, RS 422
- Temperature : +5 / + 40 °C
- Enclosure : Industrial tight box

Transportable version

- Dimensions: P.280 x L.480 x H.1050 mm
- Weight : 38 Kg (incl. Frame & pump)

Wall-mounted version

- Dimensions: P.200 x L.600 x H.600 mm
- Weight : 22 Kg

	Ranges
NO	0-10 to 0-1000 ppm
NO _x	0-10 to 0-1000 ppm
NO ₂	0-5 to 0-250 ppm
CO	0-50 to 0-2000 ppm
CO ₂	0-10 to 0-25 %
SO ₂	0-200 to 0-2000 ppm
N ₂ O	0-50 to 0-200 ppm
O ₂	0-10 to 0-25%

Options :

- ESTEL board (1 or 2 board) comprising :
 - 4 analog outputs
 - 4 analog inputs
 - 6 remote control
- 19" rack version
- Extractive sampling system using either:
 - SEC® dry extraction system
 - Refrigeration cooler unit
 - MDS air dryer unit
- CONTACT™ telemaintenance and remote diagnostic software
- Pressure, temperature and velocity: DTP
- External pump or internal ejector
- Transportable system in aluminum chassis



Characteristics :

This new analyzer comprises of three different modules, each having a different principle of measurement:

- Chemiluminescence for oxides of nitrogen
- Infrared Absorption with Gas Filter Correlation for 2 to 3 gases among : CO, CO₂, SO₂ and N₂O
- Paramagnetic sensor for O₂

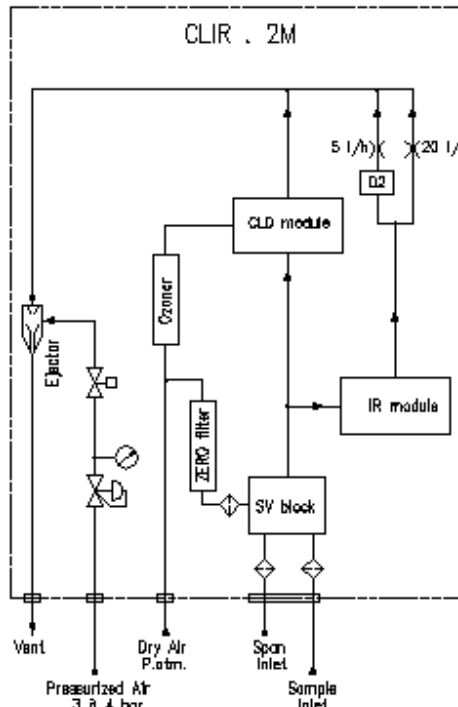
Putting these three sensors in a single enclosure using a common sampling system is a unique achievement.

The analyzer has a keypad and display which enables the user to scroll through set-up, diagnostic and data screens. The operation of the menus is easy and intuitive. There are optional cards which have inputs and outputs that allow the analyzer to transmit to data capture systems. Furthermore the analyzer can receive , process and store data from other process or emissions analyzers.



Confirms with the new draft standard under preparation by CEN - TC. 264.GT16 :

- Oxides of nitrogen by Chemiluminescence
- Oxides of carbon by Infrared Absorption
- Oxygen by Paramagnetic sensor



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