

CH₄-CO₂-O₂ continuous monitoring in fossil gas



- Infrared analyzer for CH₄ and CO₂ monitoring
- Electrochemical analyzer for O₂ and H₂S
- Flow meter for monitoring and regulation of measuring and calibration flow to the analyzer
- Condense monitor with feedback loop on suction pump
- Pellistore gas monitor for explosion monitoring
- Solenoid valve to stop gas in case of leak
- Analogical 4-20 mA output signal and digital alarm
- Heated sample line and gas cooler (in case of wet gas)

Methox - CH₄-CO₂ infrared gas analyzer

This analyzer is based on non-dispersive infrared absorption (NDIR) for CH₄ and CO₂ gas measurement. The enclosure is a solid 19" rack mounting 2 module box. The values are displayed on two led displays provided with two configurable alarms for each measure. The alarms are displayed with a led on the front panel and put on 4 digital potential free contacts on the rear of the analyzer. On the front panel two flow meters (one for each measure) manage the control and set up of the gas flow inside the analyzers.



CH4 - CO - C3H8 monitor - Mod. Pellox

This device is designed to monitor concentration with a fixed threshold of 5% of LEL (Lower Explosive Limit), which for CH₄ is 0.25% in volume. Pellox is based on a catalytic oxidation sensor (called Pellistor) especially studied to measure combustible gas.

The use of catalytic sensor has several advantages:

- 1) Very good zero stability
- 2) Linear output
- 3) Short warm up time
- 4) Long-time duration



The device has a output SPDT relay.

When the alarm is on, a visible signal (red led on the upper side of the enclosure) and an acoustic one are switched on and the output relay is deactivated.

The output is also switched off in case of Pellox fault.

The Pellox is located in a little and light box to be fixed on DIN rail; it also has extractable connection for a quick and easy installation.

It works both with AC (isolated) and with DC, in order to meet every need about installation.

System technical data

Measuring ranges	CH ₄ 0-10, 0-30, 0-100%. CO ₂ 0-2000 ppm at 0-100% CO ₂ . O ₂ 0-25% O ₂ H ₂ S 0-200 ppm
Accuracy:	± 2% of full range
Stability:	< ± 2% of full range
Ripetibilità:	± 0.3% of zero and ±1.5 of span for CH ₄ and CO ₂
Analogical output:	3 x 4-20 mA (500 Ω max load) 0.006 mA resolution
Zero drift at constant temperature:	± 2% for year per CO ₂ e CH ₄ , 5% for O ₂
Zero drift due to temperature drift:	± 0.1% of full range for °C
Digital output:	4 relay contacts 1A 24V on measure alarm
Operating temperature:	0 - 45°C
Storing temperature:	-20 - +70°C
Power:	230 Vac 12W max
Display:	3 with 7 segments led
Protection:	IP20
Dimensions:	450x132x380 mm (lxhxp)
Weight:	25 Kg

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