

HIGH-PERFORMANCE GAS ANALYZERS



Designed for trace level methane analysis, HALO 3 CH₄ offers:

- Low single-digit parts per billion (ppb) methane detection capability in an array of gases
- Absolute measurement (freedom from calibration gases)
- Wide dynamic range

- Low cost of ownership and operational simplicity
- Clean technology no external calibration gases required
- Compact analyzer footprint

Specifications

Performance

Operating range: Detection limit (LDL, 3σ/24h): Precision (1σ, greater of): Accuracy (greater of): Speed of response: Environmental conditions: Storage temperature: See gas performance table below See gas performance table below ± 0.75% or 1/3 of LDL ± 4% or LDL < 1 minute to 90% 10°C to 40°C 30% to 80% RH (non-condensing) -10°C to 50°C

Gas Handling System and Conditions

316L stainless steel (corrosive gas version optional) 10 Ra surface finish			
1/4" male VCR inlet and outlet			
1 x 10 ⁻⁹ mbar l / sec			
10 - 125 psig (1.7 - 9.6 bara)			
Up to 1.8 slpm			
Most inert, toxic, passive and corrosive matrices			
Up to 60°C			

Dimensions & Weight

Standard sensor:	H × W × D 8.73 × 8.57 × 23.6 in (222 × 218 × 599 mm)
Sensor rack (fits up to two sensors):	H × W × D 8.73 × 19.0 × 23.6 in (222 × 483 × 599 mm)
Standard sensor weight:	28 lbs (12.7 kg)

Electrical and Interfaces

Platform:	Max Series analyzer			
Alarm indicators:	2 user programmable 1 system fault Form C relays			
Power requirements:	90 – 240 VAC, 50/60 Hz			
Power consumption:	40 Watts max.			
Signal output:	Isolated 4–20 mA per sensor			
User interfaces:	5.7" LCD touchscreen. 10/100 Base-T Ethernet. USB, RS-232, RS-485. Modbus TCP _(optional)			
Data storage:	Internal or external flash drive			
Certification:	CE Mark			

Performance, CH ₄	Range	LDL (3σ)	Precision (1σ) @ zero
In Nitrogen:	0 – 8 ppm	1.6 ppb	0.6 ppb
In Helium:	0 – 5 ppm	1.1 ppb	0.4 ppb
In Argon:	0 – 7 ppm	1.4 ppb	0.5 ppb
In Hydrogen:	0 – 8 ppm	1.6 ppb	0.6 ppb
In Oxygen:	0 – 6 ppm	1.1 ppb	0.4 ppb

Contact us for additional analytes and matrices. U.S. Patent # 7,277,177



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