



HALO 3 HCI offers

- Low single-digit parts per billion (ppb) detection capability
- Absolute measurement (freedom from calibration gases)
- Wide dynamic range
- Low cost of ownership and operational simplicity
- Clean technology no external calibration gases required

Specifications

Performance

Operating range: See gas performance table below Detection limit (LDL, 3\u03c3/24h): See gas performance table below

Precision (1\sigma, greater of): \pm 0.75% or 1/3 of LDL

Accuracy (greater of): $\pm 4\%$ or LDL

Speed of response: < 1 minute to 90%

Environmental conditions: 10°C to 40°C 30% to 80% RH (non-condensing)

Storage temperature: -10°C to 50°C

Gas Handling System and Conditions

Wetted materials: 316L stainless steel (corrosive gas version optional) 10 Ra surface finish

Gas connections: 1/4" male VCR inlet and outlet

Leak tested to: 1 x 10⁻⁹ mbar I / sec

Inlet pressure: 10 – 125 psig (1.7 – 9.6 bara)

Flow rate: Up to 1.8 slpm

Sample gases: Most inert, toxic, passive and corrosive matrices

Gas temperature: Up to 60°C

Dimensions & Weight

Standard sensor: $H \times W \times D \ 8.73 \times 8.57 \times 23.6 \text{ in } (222 \times 218 \times 599 \text{ mm})$ **Sensor rack** (fits up to two sensors): $H \times W \times D \ 8.73 \times 19.0 \times 23.6 \text{ in } (222 \times 483 \times 599 \text{ mm})$

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, HCl	Range	LDL (3σ)	Precision (1σ) @ zero
In Nitrogen:	0 – 20 ppm	1.0 ppb	0.4 ppb
In Clean Dry Air (CDA):	0 – 20 ppm	1.0 ppb	0.4 ppb
In Hydrogen:	0 – 10 ppm	1.0 ppb	0.4 ppb



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