



### **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<sup>-9</sup> 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, CH <sub>4</sub>	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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