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▶ SI-H100

Fixed gas detector with integrated sampling pump

Product description

The SI-H100 is a stationary gas detector integrated to respond quickly and accurately to toxic or flammable gases' presence in ambient air. Small, compact, and lightweight, it is ideal for use in light industry, laboratories, semiconductor processing, or wastewater treatment.

In its standard version, the SI-H100 features a large LCD screen, a 4-20 mA linear output, alarm relays for control functions, and Modbus and Ethernet TCP/IP communication. The integrated gas suction pump is enable to sample distances of up to 30 meters.

Sensor cartridges are pre-calibrated, and alarm thresholds, making periodic sensor replacement quick and easy. The original calibration certificate is stored in the sensor's memory and can be retrieved by connecting to the sensor via Ethernet communication.

Technical specifications

Gas detection: BCl3, C3H8, Cl2, CH4, CO, H2, H2O2, H2S, HC, HCl, HF, NH3, NO2, O2, O3, PH3, SiH4, SO2 & VOC
Sensors: Intelligent sensor cartridge with integrated electronic calibration certificate and alarm parameters
Display: 4-character alphanumeric display with separate units of measurement, flow rate histogram, and various other indicators (icon-driven)
Keypad: Membrane (4 keys)

Operating voltage: 24 V CC (nominal) +/- 10 %
Outputs: 24 V CC (nominal) +/- 10 %
• Linear 4-20 mA
• 3 configurable relays, NO or NC (2 alarms + default)
• RS-485 interface
• TCP/IP communication

Audible alarm: 90 dB at 1 meter

Integrated suction pump system: 90 dB at 1 meter
Sampling time: 92 to 30 seconds max.
Sampling tube input/output: 91/4" teflon
Tubing length: Up to 30 meters (100 feet)
Pump life: 2 years old

Event logging to view sensor history
Material: Steel housing with paint finish
Dimensions: 124 x 65 x 155 mm (H x L x D)
Weight: 2 kg
Wall-mounting with 2 pre-drilled holes on the rear frame
Operating temperature: 0°C to 40°C
Warranty: 2 years (sensor cartridge 1 year)

Gas	Sensor	Range	Resolution
BCl3 (Boron trichloride)	EC	0-30% Vol.	0.1 % Vol.
C3H8 (Pentane)	IR	0-100% LEL	1% LEL
CH4 (Methane)	CAT	0-100% LEL	1% LEL
CH4 (Methane)	IR	0-100% LEL	1% LEL
Cl2 (Chlorine)	EC	0-20 ppm	0.1 ppm
CO (Carbon monoxide)	EC	0-500 ppm	1 ppm
H2 (Hydrogene)	CAT	0-100% LEL	1% LEL
H2 (Hydrogene)	EC	0-1000 ppm	within 5 ppm
H2O2 (Peroxide)	EC	0-10 ppm	0.1 ppm
H2S (Hydrogen sulphide)	EC	0-200 ppm	1 ppm
HC (Hydrocarbon)	CAT	0-100% LEL	1% LEL
HCl (Hydrogen chloride)	EC	0-10 ppm	0.1 ppm
HF (Hydrogen fluoride)	EC	0-5 ppm	0.1 ppm
NH3 (Ammonia)	EC	0-100 ppm	1 ppm
NO2 (Nitrogen dioxide)	EC	0-20 ppm	0.1 ppm
NO2 (Nitrogen dioxide)	EC	0-20 ppm	0.1 ppm
O2 (Oxygene)	EC	0-30% Vol.	0.1 % Vol.
O3 (Ozone)	EC	0-5 ppm	0.1 ppm
PH3 (Phosphine)	EC	0-20 ppm	0.1 ppm
SiH4 (Silane)	EC	0-5 ppm	0.1 ppm
SO2 (Sulphur dioxide)	EC	0-20 ppm	0.1 ppm
VOC	PID	0-1000 ppm	within 3 ppm