Gas Sensor ME 1250 Hydrogen Cyanide HCN

Data Sheet



Version 09/2022, Technical changes reserved



- Automatic zero point calibration
- Active noise reduction on the output signal
- Linear measurement signal depending on the gas concentration
- High response sensitivity with a short response time
- Selective and reliable measurement with stable measuring signal and zero point
- Temperature compensated measurement
- Long service life

The ME1250 Gas Sensor is a remote measuring unit for monitoring gas concentration and is used for gas safety alarm systems.

The microprocessor-controlled electronics of the sensor, adapted to the specific properties of the measuring cell, enable fast and reliable signal processing. The measured gas concentration is transmitted to a Gas Control Panel, which can manage a large number of distributed gas sensors.

Thanks to bus communication, only one cable is required, which can be continued from sensor to sensor. The ME 1250 Gas Sensor is also available with an analogue output signal of 4...20 mA. The measured gas concentration can thereby be processed by other PLC (Programmable Logic Controllers).

The optional relay module expands the ME 1250 Gas Sensor internally with 3 relays for direct switching of signal transmitters without the use of a control panel.

Alti Ruedelfingerstrass 11 CH-8460 Marthalen

+41 52 633 05 70 info@mueller-elektronik.ch

www.mueller-elektronik.ch

Technical Specifications

Measurement method

Measuring range Alarm thresholds Lifespan in air Break-in period Response time t⁹⁰ Operating voltage Ambient temperature Humidity Mounting height Casing Cable entry EU conformity 0...10 ppm Alarm 1: 5 ppm Alarm 2: 10 ppm up to 2 years 4 h < 20 sec 10...28 VDC -20...+50 °C 15...90% rF on the ceiling Default: Powder-coated aluminum Orange RAL 2004 80 x 125 x 59 mm 500 g M20 CE mark including EMC test

Electrochemical



other measuring ranges on request recommendation

according to cell manufacturer according to cell manufacturer

nominal 24 VDC

non-condensing lighter than air *Optional:* ABS plastic Light gray RAL 7035 81 x 121 x 56 mm 250 g

Versions

Article code	12BUS-HCN-11	1250-HCN-11
Description	ME 1250 Bus	ME 1250 Analogue
Output signal	Bus communication with Control Panel	Analogue 420 mA Load max. 800 Ω at 24V input
Connection	4-core cable U72M 1x4x0.6 mm Shielded	3-core cable U72M 1x4x0.6 mm or CY 0.5 mm ² Shielded
	o = 6ND o + 6ND o	
Topology	Bus, tree or star topology	Star topology
Power	< 0.15 W	< 0.8 W

Cross sensitivity

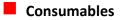
Due to the electrochemical measurement principle, the measurement is more selective than other measurement methods. The cross-sensitivity table can be found in the <u>online version of this data sheet</u>.

Accessories

Article code	
1250-REL	Relay module
	for single sensor
1250-AIR-BOX	Add-on box
	for ventilation duct
1250-AIR-FLOW	Hose fitting
1250-SUP	Mounting plate
	for round columns
1250-SCHUTZ	Weather protection

Maintenance

Annual calibration and function check with calibration gas, carried out by trained staff.



Article code	
CELL-HCN-C100	Measuring cell
	for hydrogen cyanide
	Lifespan: up to 2 years

Exposure above 10 ppm requires recalibration

Exposure above 200 ppm can destroy the measuring cell

+41 52 633 05 70 info@mueller-elektronik.ch www.mueller-elektronik.ch