

Gas sensor GSSM 112 EX

for detection of C₂H₄



Features

- The gas detector measures the selected gas concentration
- The gas detector is part of the digital KIMESSA CANline BUS-Network which is designed for up to 128 gas detectors and alarming units
- linearized and temperature-compensated digital CANline-BUS-output, 4-20mA or Modbus RTU with optional relays
- 16...30 VDC supply voltage (2-wire, 3-wire or 4-wire cable for CANline BUS-Network)
- digital MODBUS-RTU (RS 485) output signal
- various gas sensor technologies available (electrochemical, Infrared, pellistor, semiconductor)
- factory calibration with calibration certificate to the specified measuring range
- Calibration/ programming are easily carried out with the use of a hand held HAL magnetic sensor.
- water- and dust-proof IP 65 enclosure
- clearly arranged OLED-Display with concentration- and status information
- optional 3 potential free relay outputs (to control third party devices)
- optional relay contacts: various relay functions (manual/ auto RESET, Energized/ De-Energized)
- optional relay contacts: free programmable time delays and alarm levels
- optional 230 VAC supply for standalone operation
- ATEX-Class: II 2G Ex d IIC T4
- Swiss-Made

Gas sensor GSSM 112 EX

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|-------------------|-------------------------------|
| Gas: | Hydro Carbon |
| Gas formula: | HC |
| Alarm thresholds: | 2 (pre-/ main-alarm) optional |
| Warranty: | 12 month warranty |
| Position: | |

Sensor specifications

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|--------------------------------|---|
| Measurement principle: | Semiconductor |
| Measuring range: | 0...100 % LEL |
| Standard calibration: | 0...100 % LEL |
| Response time t 90: | < 20 sec |
| Operating temperature: | -30 °C ... +50 °C |
| Start up after reconditioning: | approx. 48 hours |
| Pressure range: | atmospheric ± 10% |
| Air humidity: | 15...90 % R.H. non-condensing |
| Position sensitivity: | none |
| Long term output drift: | < 2% signal loss/month |
| Life span at 20 °C: | 5-8 years, depending on the application |

Housing

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|---------------------|---|
| Housing protection: | IP 65 |
| Material: | Aluminum, RAL 5009 (stainless steel as an option) |
| Weight: | 1200 g |

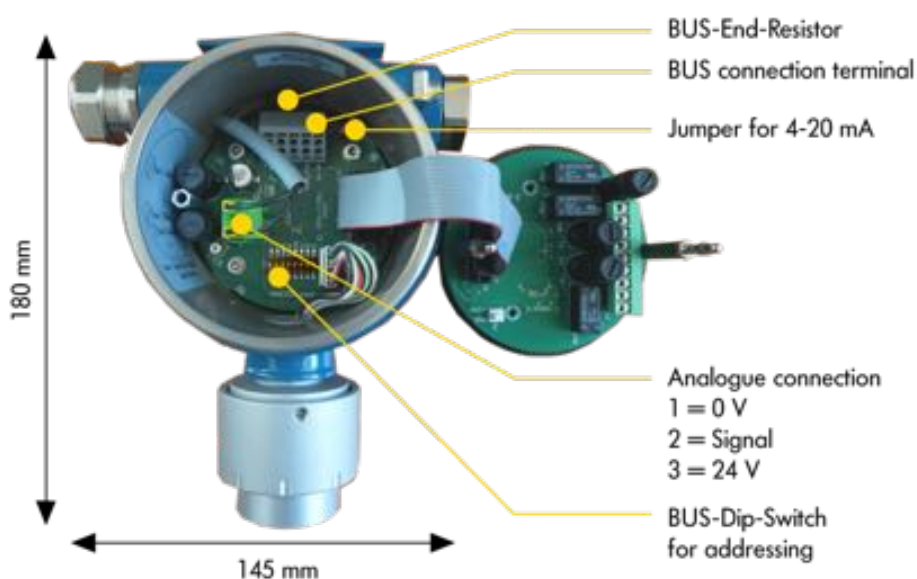
Specifications electronic

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|-------------------------|------------------------------------|
| Wiring analogue: | 3x 0,75 mm ² , shielded |
| Wiring digital: | 4x 1,0 mm ² , shielded |
| Supply: | 16.5...30 VDC |
| Power consumption: | max. 200 mA |
| Output signal analogue: | 4...20 mA |
| Output signal digital: | KIMESSA CANBUS / Modbus RTU |
| Switching output: | 3 potential free (2A) (optional) |

Specifications construction

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|------------------|--|
| Cable gland: | 1x M25 (digital 2x M25) |
| Cable entry: | left/right |
| Tests: | CE / II 2G Ex d ia IIC T4 Gb / BVS 15 ATEX E 065 X |
| Display: | OLED-Display |
| Position: | depending on display |
| RESET-Connector: | no |

Electronic and Dimensions



Inspection (Maintenance)

The sensor and the electronic require an inspection. Routine calibration is recommended once or twice a year.