

Gas sensor GSPM 121 EX

for detection of C4H10



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-BUSoutput,
- 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 GSPM 121 EX

Gas:
Gas formula:
Alarm thresholds:
Warranty:
Position:

Sensor specifications

Measurement principle:

Measuring range:

Standard calibration: Response time t 90:

Operating temperature:

Hydro Carbon HC 2 (pre-/ main-alarm) optional 12 month warranty 30 cm from Floor

Pellistor

0...100 % LEL

0...100 % LEL

-30 °C ... +50 °C

atmospheric $\pm 10\%$

< 2% signal loss/month

5-8 years, depending on the

15...90 % R.H. non-condensing

< 20 sec

ca. 1 hour

none

application

Housing

Housing protection: IP 65 Material: Aluminu steel as Weight: 1200 g

IP 65 Aluminum, RAL 5009 (stainless steel as an option) 1200 g

Specifications electronic

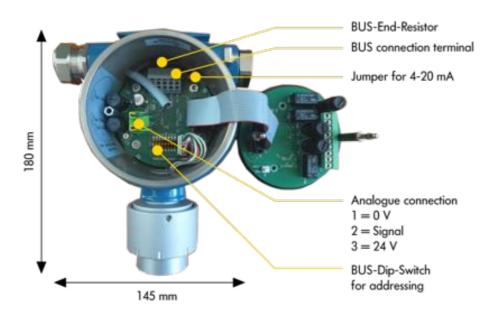
Wiring analogue:	3x 0,75 mm2, shielded
Wiring digital:	4x 1,0 mm2, shielded
Supply:	16.530 VDC
Power consumption:	max. 200 mA
Output signal analogue:	420 mA
Output signal digital:	KIMESSA CANBUS / Modbus RTU
Switching output:	3 potential free (2A) (optional)

Specifications construction

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

Inspection (Maintenance)

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



Electronic and Dimensions

Start up after reconditioning: Pressure range:

Air humidity:

Position sensitivity: Long term output drift:

Life span at 20 °C: