

Gas sensor GSBM 5000 (Ex)

for detection of Phosphine PH3



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
- The intrinsically safe design facilitates replacement of the electrochemical sensor without the need of a hot work permit.
- Option for ATEX-Class: Il 2G Ex d ia IIC T4
- Swiss-Made

www.kimessa.com GSBM 5000 (Ex) - 15/07/2016



Gas sensor GSBM 5000 (Ex)

Gas: Phosphine

Gas formula: PH3

Alarm thresholds: 2 (pre-/ main-alarm) optional

Warranty: 12 month warranty
Position: 30 cm from Floor

Sensor specifications

Measurement principle: Electrochemical

Measuring range: 0...1 ppm
Standard calibration: 0...1 ppm
Response time t 90: < 60 sec

Operating temperature: -5 °C ... +40 °C Start up after approx. 1 hour

reconditioning:

Pressure range: not defined

Air humidity: 15...90% R.H. non-condensing

Position sensitivity: none

Long term output drift: < 5% signal loss/ month

Life span at 20 °C: 1 year, depending on the

application

Housing

Housing protection: IP 65

Material: Aluminum, RAL 5009 (stainless

steel as an option)

Weight: 1200 g

Specifications electronic

Wiring analogue: 3x 0,75 mm2, shielded Wiring digital: 4x 1,0 mm2, 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

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 (opt.)

Display: OLED-Display

Position: depending on display

RESET-Connector: no

Inspection (Maintenance)

The sensor and the electronic require at least an annual inspection. The electrolyte and membrane must be replaced once a year.

Electronic and Dimensions

