

# Gas sensor GSEM 757 EX

for detection of Phosgene COCl2



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



## Gas sensor GSEM 757 EX

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

**Sensor specifications** 

Measurement principle:

Measuring range: Standard calibration:

Response time t 90:

Start up after

reconditioning:

Pressure range:

Position sensitivity:

Life span at 20 °C:

Long term output drift:

Air humidity:

Operating temperature:

Phosgene COCl2 2 (pre-/ main-alarm) optional 12 month warranty 30 cm from Floor

Electrochemical

-20 °C ... +40 °C

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

< 5% signal loss/6 month

1 year, depending on the

approx. 1 hour

not defined

application

none

0...3 ppm

0...1/3 ppm

<120 sec

## Housing

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

# **Specifications electronic**

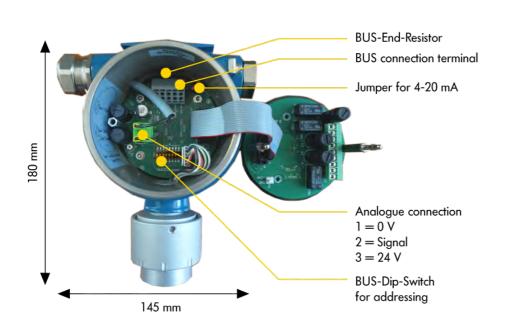
Wiring analogue:	3x 0,75 mm2, shielded
Wiring digital:	4x 1,0 mm2, shielded
Supply:	16.530 VDC
Power consumption:	max. 200 mA
Output signal analogue:	420 mA
Output signal digital:	KIMESSA CANBUS / Modbus RTU
Switching output:	3 potential free (2A) (optional)

### **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
<b>RESET-Connector:</b>	no

#### Inspection (Maintenance)

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



**Electronic and Dimensions** 

www.kimessa.com

## GSEM 757 EX - 29/10/2016