

# Gas sensor KSIM 1090

for detection of CO2



#### **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 signal
- 16...30 VDC supply voltage (4-wire cable)
- various gas sensor technologies available (electrochemical, Infrared, pellistor, semiconductor)

- factory calibration with calibration certificate to the specified measuring range
- Zero & Span potentiometers and calibration jack socket accessible from outside without opening the gas detector enclosure
- water- and dust-proof IP 65 enclosure
- rust-proof and acid-resitant steel enclosure
- Swiss-Made

www.kimessa.com KSIM 1090 – 15/07/2016



#### Gas sensor KSIM 1090

Gas: Carbon Dioxide

Gas formula: CO2

Warranty: 12 month warranty
Position: 30 cm from floor

### **Sensor specifications**

Measurement principle: Infrared

Measuring range: 0...5000 ppm/0...1 Vol. %/0...5

Standard calibration: 0...5 Vol. %
Response time t 90: < 90 sec

Operating temperature: -30 °C ... +50 °C

Start up after approx. 1 hour

reconditioning:

Pressure range: atmospheric  $\pm 10\%$ 

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

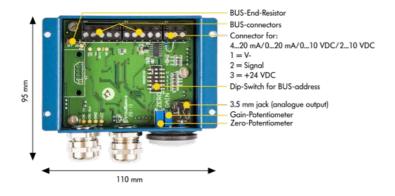
Position sensitivity: none

Long term output drift: < 2% signal loss/month

Life span at 20 °C: 6-8 years, depending on the

application

### **Electronic and Dimensions**



#### **Housing**

Housing protection: IP 65

Material: rust-proof and acid-resistant

Weight: 550 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. 80 mA

Output signal analogue: 4...20 mA / 0...20 mA

Output signal digital: KIMESSA CANBUS

Switching output: no

### **Specifications construction**

Cable gland: 1x M16 (digital 2x M16)

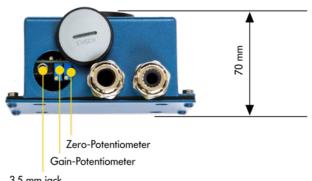
Cable entry: bottom
Tests: CE

Display: no

Position: position independent

## **Inspection (Maintenance)**

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



3.5 mm jack (analogue output)

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