



Gas sensor KSEM 504/684

for detection of Carbon Monoxide/Nitrogen Dioxide CO/NO₂



Features

- The gas detector measures the selected gas concentration
- linearized and temperature-compensated output signal
- 16...30VDC supply voltage (4-wire cable)
- various gas sensor technologies single or combined available (electrochemical, pellistor and 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-resistant steel enclosure
- MODBUS-RTU-Signal
- Expanded Sensors can be easily replaced through precalibrated sensors
- Status LED for Sensor Operation (green)/Fault (red)
- Swiss-Made

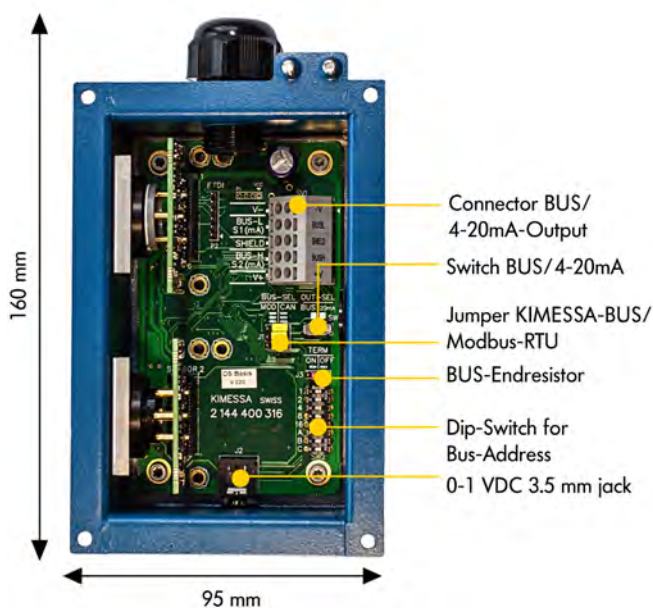
Gas sensor KSEM 504/684

Gas:	Carbon Monoxide/Nitrogen
Gas formula:	CO/NO ₂
Warranty:	12 month warranty
Position:	1,5 meters from floor

Sensor specifications

Measurement principle:	Electrochemical
Measuring range:	CO: max. 1000 ppm/ linear NO ₂ : 0...10 / 0...20 ppm
Standard calibration:	CO: 0...300 ppm / NO ₂ : 0...10
Sensitivity:	CO: min. 1 ppm NO ₂ : 0.1 ppm
Response time t ₉₀ :	max. 60 sec
Operating temperature:	-10 °C ... +50 °C
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:	CO: > 5 years NO ₂ : 3-5 years

Electronic and Dimensions



Housing

Housing protection:	IP 65
Material:	rust-proof and acid-resistant steel, RAL 5009
Weight:	610 g

Specifications electronic

Wiring:	4x1.00mm ² , shielded
Supply:	13.5...30 VDC
Power consumption:	max. 80mA
Output signal analogue:	2 x 4...20 mA/ max. 80 mA
Output signal digital:	KIMESSA CANBUS/ Modbus-
Switching output:	no

Specifications construction

Cable gland:	1xM20
Cable entry:	oben
Tests:	CE
Display:	no
Position:	position independent
RESET-Connector:	no

Inspection (Maintenance)

The sensor and the electronic require an inspection. Routine calibration is recommended once or twice a year. The **calibration gas** should be 75% of the measurement range, and must contain synthetic air as the carrier gas.

