

CO₂ Sensor ZMF-100-IR

Robust CO₂ sensor for industrial applications up to 50.000ppm

- ☑ Excellent long-term stability and robustness
- ☑ attractive price / performance ratio
- ☑ Maintenance-free with NDIR technology
- ☑ Hardly affected by external influences, such as air pressure fluctuations and vibrations
- ☑ 4 ... 20mA or 0 ... 10V signal output



Technical specifications

Features

measuring principle	optical, NDIR* ¹
gas inlet	per diffusion
signal output	4...20mA or 0...10V
operating voltage	24V DC/100mA
housing and protection marking	Aluminum, IP54, red colored
dimensions	90x85x65mm
weight	500g

Operating conditions

operating temperature	-10...+50°C
storage temperature	-40°C...+100°C
relative Humidity	15...95%, non-condensing
air pressure	900...1100 hPa

Sensor features

heating-up time	ca. 5 min
reaction time	ca. 30 sec
accuracy	+/- 2%
reproducibility	+/- 1%

*¹NDIR: non-dispersive infrared absorption measurement

technical changes reserved

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Measuring ranges

- ☑ 0...3.000 ppm or
- ☑ 0...5.000 ppm or
- ☑ 0...6.000 ppm or
- ☑ 0...10.000 ppm or
- ☑ 0...20.000 ppm or
- ☑ 0...30.000 ppm or
- ☑ 0...50.000 ppm

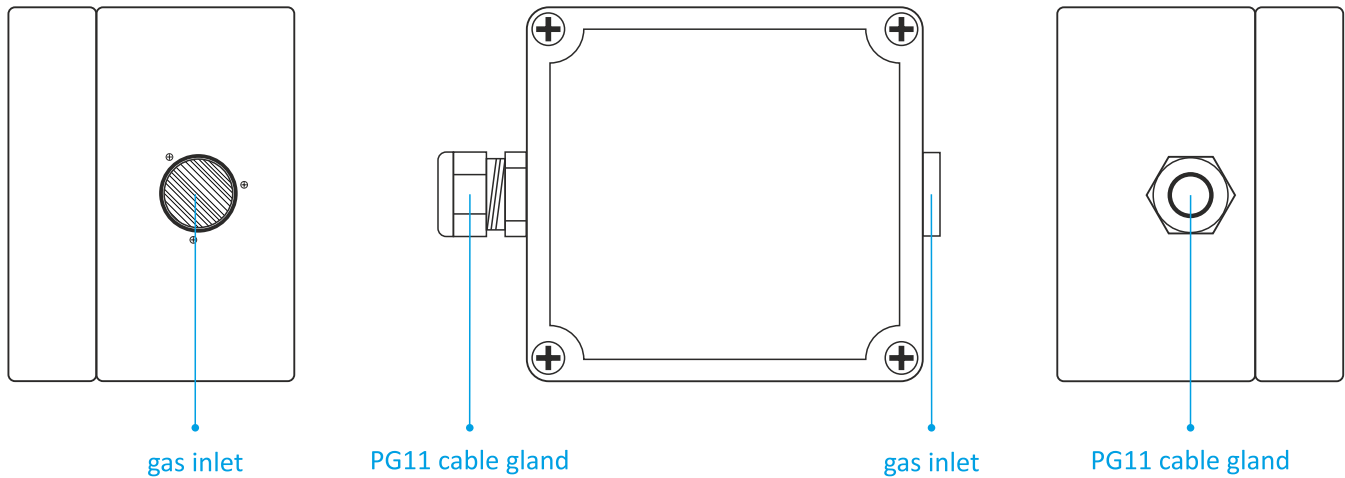
Approval

The device is conform to the following norms

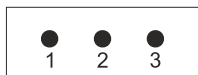
- ☑ EN 61000-6-2
- ☑ EN 61000-6-4
- ☑ EMC Directive 2014/30/EU

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Housing and electronics



connector pin assignment



- 1 0V
- 2 4-20mA or 0-10V
- 3 +24V

screw terminal from above

Connection

shielded cable with 3x1,5mm² Cu +
maximum load 450 OHM (4-20 mA)

Ordering

Scope of delivery

CO ₂ Sensor ZMF-100-IR
mounting and operating instructions

Ordering options

selected measuring range as specified
other electric connectors on request
4...20mA or 0...10V signal output
other cable glands on request

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