

# CO<sub>2</sub> Sensor ZMF-100-IR

## Robust CO<sub>2</sub> 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* <sup>1</sup> |
| 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%     |

\*<sup>1</sup>NDIR: 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

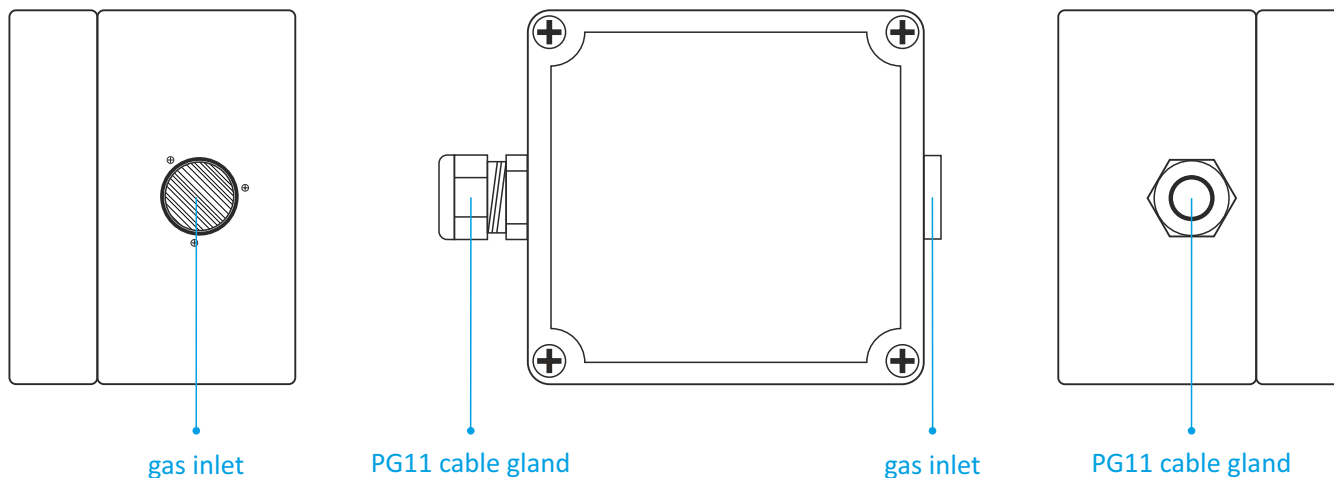
## Approval

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 3x1,5mm<sup>2</sup> Cu +  
maximum load 450 OHM (4-20 mA)

## Ordering

### Scope of delivery

|                                     |
|-------------------------------------|
| CO <sub>2</sub> 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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