

# CO<sub>2</sub> sensor



- Monitoring of room air quality
- Compact, unobtrusive design
- Visual indication of concentration
- Version with Schuko CEE mains plugs
- With or without EnOcean® wireless technology



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Flexible use in buildings due to integrated Schuko CEE mains plug.

**Application** For continuous monitoring of the carbon dioxide (CO<sub>2</sub>) concentration in the ambient air. Application in rooms in which many persons work, study or live and where breathing produces carbon dioxide. High concentrations of carbon dioxide in the ambient air reduce the ability of persons to concentrate and perform. Ideal for educational institutions, training/meeting rooms, office areas and household.

**Description** CO<sub>2</sub> sensor with infrared technology in plastic housing, for connection to a standard CEE socket. The CO<sub>2</sub> concentration is indicated directly at the device by a colour scale:

- LED green: No ventilation required
- LED yellow: Ventilation recommended
- LED red: Ventilation required

The version CO<sub>2</sub> sensor F (with EnOcean® wireless module) sends the measured values to the AFRISO Gateway for further processing and initiation of appropriate action. For example, it is possible to start a room ventilation system in order to reduce the CO<sub>2</sub> concentration. The current carbon dioxide concentration is also displayed by the AFRISO apps.

The AFRISO Gateway in conjunction with additional AFRISO products with EnOcean® wireless technology allows the user to configure a whole range of fully customisable, extensible measures.

## Technical specifications

### Measuring range

0/2,000 ppm

### Measuring accuracy

400/1,250 ppm: ±30 ppm or ±3 % of measured value

1,250/2,000 ppm: ±30 ppm or ±5 % of measured value

### Operating temperature range

Ambient: 0/50 °C

Storage: -40/+70 °C

Humidity: Max. 95 % r.h.

### Housing

Plastic housing (PC/ABS),

W x H x D: 69 x 69 x 31 mm

Weight: 108 g

Degree of protection: IP 20 (EN 60529)

### Supply voltage

AC 100–240 V via Schuko CEE mains socket

### Nominal power

2.5 VA

### Visual indication

LED green: < 1,400 ppm CO<sub>2</sub>LED yellow: 1,400–1,900 ppm CO<sub>2</sub>LED red: > 1,900 ppm CO<sub>2</sub>

### EnOcean® wireless

Frequency: 868.3 MHz

Transmission power: Max. 10 mW

Transmission cycle: 2.5 minutes

Range: 10 to 30 m (depending on room arrangement and materials in the building)

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See operating instructions for detailed information on the range of the EnOcean® wireless module.

DG: G	Part no.	Price €
<b>CO<sub>2</sub> sensor</b>	<b>61241</b>	
<b>CO<sub>2</sub>-Sensor F, with EnOcean® wireless module</b>	<b>61240</b>	