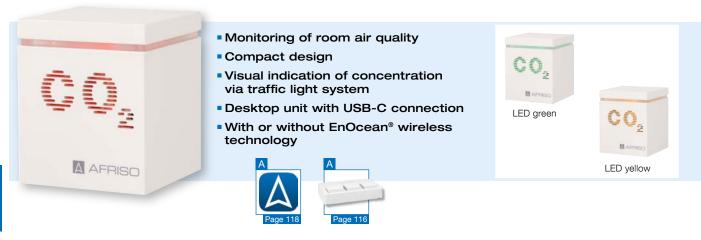
# CO<sub>2</sub> measuring instrument **CM 20**





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 carbon dioxide levels may consequently be elevated due to breathing, or in rooms where a very high air quality is required (for example, bedrooms, children's' rooms). High concentrations of carbon dioxide in the ambient air reduce the ability of persons to concentrate and perform. In addition, the concentration of aerosols increases with the CO<sub>2</sub> content and, therefore, the risk of respiratory infections. Ideal for educational institutions, training/meeting rooms, office areas and household.

#### Description Portable CO, sensor with infrared technology in a plastic housing with USB-C interface for power supply. The CO<sub>2</sub> concentration in the room air is indicated directly at the device by a colour scale:

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

When the device switches from green to yellow (approx. 1,000 ppm), a short signal tone sounds (< 1 second) which is repeated every 10 minutes. When the device switches from yellow to red (approx. 1,500 ppm), 2 short signal tones sound which are repeated every 10 minutes. The signal tone can be disabled.

The version CM 20E (with EnOcean® wireless module) sends the measured values to the AFRISOhome 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 and the history (day, week, month) is also displayed by the app AFRISOhome. This data is the ideal basis for ensuring healthy indoor ambient air. The AFRISOhome gateway in conjunction with additional AFRISO smart home products with EnOcean® wireless technology allows the user to configure a whole range of fully customisable, extensible applications.

#### **Technical** Measuring range specifications 0/2,000 ppm

# Measuring accuracy

400/1,250 ppm: 1,250/2,000 ppm:

±30 ppm or ±3 % of measured value ±30 ppm or ±5 % of measured value

# **Operating temperature range**

Ambient: 0/40 °C Storage: -20/+60 °C

#### Housing

Plastic housing (PC/ABS), Colour: White, similar to RAL 9003 W x H x D: 50 x 60 x 50 mm Weight: 80 g Degree of protection: IP 20 (EN 60529)

# Supply voltage

USB charger with mains plug

### **Visual indication**

LED green: < 1,000 ppm CO, 1,000–1,500 ppm CO, LED yellow: LED red: > 1,500 ppm CO

#### EnOcean® wireless (CM 20E only)

EEP: A5-09-09 868.3 MHz Frequency: Transmission power: 10 mW

#### Scope of delivery

- CO<sub>2</sub> measuring instrument
- Power supply unit
- Operating instructions

PG: 4	DG	Part no.
$\rm CO_2$ measuring instrument CM 20	-	79134
<b>CO<sub>2</sub> measuring instrument CM</b> <b>20E,</b> with EnOcean <sup>®</sup> wireless module	L	79133

