CO_2 measuring instrument CM 20 E

Part no. 79133

CO_2 measuring instrument

benefits

- Monitoring of room air quality
- compact design
- visual indication of concentration
- Desktop unit with USB-C connection
- with or without EnOcean® wireless technology
- EEP (EnOcean® Equipment Profile): A5-09-09

Application

For continuous monitoring of the carbon dioxide (CO_2) 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_2 concentration and, therefore, the risk of respiratory infections. Ideal for educational institutions, training/meeting rooms, office areas and household.

Description

Portable CO_2 sensor with infrared technology in a plastic housing with USB-C interface for power supply. The CO_2 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 ten minutes. When the device switches from yellow to red (approx. 1,500 ppm), two short signal tones sound which are repeated every ten 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_2 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 Specifications

Measuring range
0/2000 ppm

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_2
LED yellow: 1,000–1,500 ppm CO_2
LED red: > 1,500 ppm CO_2

EnOcean® wireless
EEP: A5-09-09
Frequency: 868.3 MHz
Transmission power: max. 10 mW
Range: 10 – 30 m (depending on room arrangement and materials in the building)

Scope of delivery
- CO_2 measuring instrument
- power supply unit
- Operating instructions

Versions

			Part no.
CO_2 measuring instrument CM 20 E	with EnOcean® wireless module	●	79133

● in-stock items

○ Non-stock items