

# BZ25 CO<sub>2</sub> Air quality monitor

Reliable measurement of the indoor air quality

We spend more than 90 % of our life indoors. Besides, with building structures growing closer and closer together, exhausting pollutants are increasingly impeded with noticeable consequences for the air quality. Increased concentrations of carbon dioxide – even when they are still within the permissible limit values – can not only lead to fatigue, lapse of concentration or performance loss, but further cause serious health problems especially for children or enfeebled persons.

Using the BZ25, the indoor air quality can reliably be monitored – the ideal air quality monitor for use in work, living or children's rooms, class rooms, kindergartens or office and production environments. Thanks to the accurate and permanently stable NDIR measurement method, the BZ25 in addition to air temperature and relative humidity also captures the current concentration of carbon dioxide in the room air and indicates these in steps of 1 ppm on the easily legible display.

Additionally, an individual CO<sub>2</sub> alarm limit value can be defined, which when exceeded is indicated by means of an acoustic warning signal. A practical additional function of the BZ25 is the CO<sub>2</sub> indicator with simple icon presentation of a good, normal or unfortunate concentration of carbon dioxide in the room air on the large LCD display, which further shows time and date.



## A few practical benefits

- Accurate and permanently stable NDIR measurement of carbon dioxide concentrations in the room air
- Simultaneous display of CO<sub>2</sub> values, room temperature, humidity, date and time
- Minimum and maximum value function for CO<sub>2</sub>, air temperature and humidity
- Carbon dioxide alarm function with acoustic alarm signal for freely definable limit values
- Additional symbolic CO<sub>2</sub> indicator display
- Large backlit display with easily legible measured value indication
- Free standing or wall mounted

## Technical data

Article number		3.510.205.014
Sensor		NDIR sensor (nondispersive infrared)
Carbon dioxide	Measuring range	0 ppm up to 9,999 ppm CO <sub>2</sub>
	Accuracy	±75 ppm or ±5 % of measured value
	Resolution	1 ppm
Temperature	Measuring range	-5 °C up to 50 °C / 23 °F up to 122 °F
	Accuracy	±1 °C / ±1.8 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0.1 % RH up to 99.9 % RH
	Accuracy	±5 % RH
	Resolution	0.1 % RH
Measuring interval		2 s
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Backlit display, CO <sub>2</sub> acoustic alarm function, CO <sub>2</sub> sensor, Feel-good indication, Date, Time
Power supply		230 V power adapter
Dimensions		90 mm x 110 mm x 98 mm
Weight		190 g
Scope of delivery		Measuring device, Power adapter, Operating manual



# BZ30 CO<sub>2</sub> Air quality data logger

For autonomous long-term recording of indoor air quality

This CO<sub>2</sub> air quality data logger is the ideal combination measuring device for architects, experts and every heating, ventilation and air conditioning engineer.

The BZ30 provides you with all functions and equipment features of the BZ25 and is further equipped with a large data memory for 50,000 measured values for the long-term recording of carbon dioxide concentrations, air temperature and humidity values in freely definable measuring intervals from 1 second to 12 hours.

The recorded data can be conveniently transferred to the connected PC via a fast USB connection and there analysed and logged using the analysis software included in the scope of delivery.

Owing to the integrated Li-Ion battery, the BZ30 is also suited for mobile application in addition to the stationary table installation.

The simultaneous recording of humidity and temperature values plus CO<sub>2</sub> concentrations offers property managers or landlords optimal possibilities to monitor the ventilation habits.



## A few practical benefits

- Accurate and permanently stable NDIR measurement of carbon dioxide concentrations in the room air
- Simultaneous display of CO<sub>2</sub> values, room temperature, humidity, date and time
- Minimum and maximum value function for CO<sub>2</sub>, air temperature and humidity
- Carbon dioxide alarm function with acoustic alarm signal for freely definable limit values
- Additional symbolic CO<sub>2</sub> indicator display
- Large backlit display with easily legible measured value indication
- Autonomous long-term recording of carbon dioxide concentration, room temperature and humidity
- Memory for 50,000 measured values
- Freely definable saving interval from 1 second to 12 hours
- USB interface for measuring data transfer
- Free standing or wall mounted
- PC analysis software



## Technical data

Article number		3.510.205.015
Sensor		NDIR sensor (nondispersive infrared)
Carbon dioxide	Measuring range	0 ppm up to 9,999 ppm CO <sub>2</sub>
	Accuracy	±75 ppm or ±5 % of measured value
	Resolution	1 ppm
Temperature	Measuring range	-5 °C up to 50 °C / 23 °F up to 122 °F
	Accuracy	±1 °C / ±1.8 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0.1 % RH up to 99.9 % RH
	Accuracy	±5 % RH
	Resolution	0.1 % RH
Measuring interval		2 s
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Backlit display, CO <sub>2</sub> acoustic alarm function, CO <sub>2</sub> sensor, Feel-good indication, Date, Time
Additional functions		Freely selectable measuring cycle from 1 second to 12 hours, Continuous or ring recording max. 50,000 measured values
PC interface		USB
Power supply		1x 3.7 V, Li-Ion battery or 230 V power adapter
Dimensions		90 mm x 110 mm x 98 mm
Weight		245 g
Scope of delivery		Measuring device, Battery(-ies), Power adapter, USB connection cable, CD-ROM with Smartgraph PC software, Operating manual