

Portable CO₂ detector AZ 7755

for checking indoor air quality



Good air = good health and concentration

Poor indoor air quality is generally considered unhealthy, as it causes fatigue, difficulty concentrating, and even illness (e.g., sick building syndrome). Monitoring and studies, particularly regarding CO₂ levels and ventilation, are widely used in public areas such as offices, classrooms, factories, hospitals, workplaces, residential and commercial buildings, and hotels. In some countries, this is also recommended in occupational health and safety regulations.

The solution: CO₂ detector AZ 7755

The portable CO₂ detector AZ 7755 can measure indoor air quality, including CO₂ concentration, CO₂ level, air temperature, dew point, wet-bulb temperature, and humidity. The carbon dioxide reading can be output to a PC for online analysis.

Easy calibration

The CO₂ sensor is simply calibrated in fresh air. The RH sensor can be calibrated using a 33%/75% salt solution.

Features

Version with NDIR sensor (non-dispersive infrared waveguide technology)
Triple display of CO ₂ level, temperature and humidity
Display of the 8-hour TWA value (time-weighted average) and the 15-minute STEL value (short-term exposure limit)
Case design with slots for better ventilation and so for a fast and accurate response
Simple manual calibration for CO ₂ and humidity (using a salt bottle)
Large, backlit, high-resolution LCD display
Extremely fast response time
Battery and power supply
PC connection via USB interface

Specification

Measuring range

CO ₂	0...9999 ppm
Temperature	-10...60 °C
Humidity	0,1...99,9% RH

Resolution

CO ₂	1 ppm
Temperature	0,1°C
Humidity	0,1% RH

Accuracy

CO ₂	±50 ppm ±5% of the measured value (0...2000 ppm), > 5000 ppm 10% of the measured value
Temperature	±0,6°C
Humidity	±3% RH (bei 25°C, 10...90% RH); andere ±5% RH

CO ₂ warm-up time	30 seconds
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Response time

CO ₂	< 30 seconds
Air temperature	< 2 minutes
Humidity	< 10 minutes

Dimensions

LCD size	44 (L) * 26 (B) mm
meter size	205 (L) * 70 (B) * 56 (H) mm

Operating temperature	0...50°C
Operating humidity	0...95% RH (Avoid condensation)
Storage temperature	-20...50°C
Storage humidity	0...95% RH (Avoid condensation)

Supply	AA * 4 PCS
Battery life	> 24 hours (alkaline battery)

Weight	~ 200 g
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IP Rating	Ip40
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EMV	EN50270:2015
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Included in delivery	measuring device, manual, batteries, hard case
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Optional:



9 volt power supply



USB transfer cable for PC connection
and online analysis

Technical specifications subject to change / AZ 7755 V1.1 06/2026