

CO₂ Monitor

Indoor Air Quality is a measure for the quality of air in interiors.

Objective measured variable of the air quality is the carbon dioxide (CO₂).

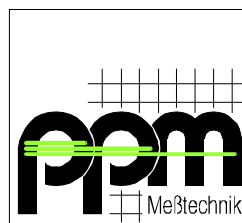
This color- and odorless gas is breathed out by humans. The CO₂ outdoor concentration varies between 360 ppm (parts by million) in clean air regions and 700 ppm in cities.

The recommended maximum indoor concentration value of CO₂ is 1000 ppm, the limit value for offices is 1500 ppm.

A good indoor air quality in offices and classrooms is an important factor, in order to guarantee effective working and learning. Above a carbon dioxide content of 1500 ppm tiredness and lack of concentration arise.

To keep the indoor concentration of CO₂ under the limit value, purposeful ventilation is necessary. In order to avoid unnecessary losses of energy thereby, it is important to know room air quality. Through the CO₂ Monitor a visually indication of room air quality is possible.

- measurement principle: Physically (infrared measurement principle)
specific measurement of CO₂, no cross-axis sensitivity to water vapour (humidity)
- gas supply: Diffusion
- measuring range: 0 - 3000 ppm CO₂
- accuracy: +/- 40 ppm
- long-term-stably, calibratable
- response time: approx.. 20 seconds
- warm-up time: approx.. 1 minute
- indication: six level LED indicator
- serial RS-232 interface optionally
output of the measured values as
minute-mean-values for external recording
- storage of measured values ,on board' possible
in 2 modes: 24 hour recording daily
or 8 hour recording daily
storage of 12-minute mean values
over a time period of up to 6 months
(dependent on storage mode)
readout of the recorded values
via RS-232 interface.
- dimensions: 75x132x24 mm³



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