

Technical Gas Detector PCE-WMM 50

Air Quality Meter to detect carbon dioxide (CO₂) / 2 configurable alarm thresholds / 4-digit digital display / integrated alarm transmitter / simple wall assembly

The air quality meter PCE-WMM 50 is a well-priced device to detect carbon dioxide (CO₂). The air quality meter PCE-WMM 50 prevents health issues caused by the colourless and inodorous gas, used in the food industry, metal industry, in chemical processes and in the waste industry. The air quality meter consists of two units: the detector is to be placed within locations with higher risks, while the alarm unit is placed outside that area. The air quality meter features two adjustable alarm thresholds. If the measured value trespasses the pre-set threshold, an alarm is set-off (alarm lights and alarm-buzzer). The air quality meter PCE-WMM 50 featured a 4-digit digital display as well as four LED lights assuring a steady visual monitoring of the gas concentration. Through the accessible, potential-free change-over contacts you can activate further alarm units, switch-on an exhauster or stop a machine. The air quality meter PCE-WMM 50 can be easily mounted to a wall. It consists of a system compartment, a air quality meter, an alarm unit and a cable to connect the air quality meter with a remote controlling unit. Even smaller amounts of carbon dioxide might cause severe effects on the human organism. A concentration above 0.3 % in the air might effect the health. If the concentration arises to 5 %, it causes headaches and dizziness, while a concentration of more than 8 % lead to unconsciousness and even death.

- Detection of carbon dioxide (CO₂)
- 2 configurable alarm thresholds
- 4 digit digital display
- Steady visual control option
- Potential-free change-over contact
- Integrated alarm
- Easy mounting on wall
- Three system-components

Technical Specifications

Gas Detector

Measured gas	carbon dioxide (CO ₂): 0 ... 50,000 ppm (5%) (vol.) NDIR sensor
Temperature (gas / environment)	0 ... +45 °C
Supply of gas samples	by diffusion
Alarm contacts	- 1 potential-free change-over contactor to control external devices (NO/NC) by releasing alarm 1 - Switching power: 30 V DC / 250 V AC, max. 2 A
Alarm thresholds	alarm 1 0.5 / 1 / 1.5 / 2 % alarm 2

1.5 / 2 / 2.5 / 3 / 3.5 / 4 %

Menu items
Function test of connection between detection unit and alarm unit, calibration, switch between °C and °F, alarm 1, 2 and factory setting

Display elements
- 4-digit digital display for measured gas concentration within range 0 ... 9999 ppm
- 3-digit digital display for measured gas concentration within range 1 ... 5 %
- additional 3-digit digital display for measurement and temperature in °C and °F
- LEDs for operation, alarm 1, 2 and monitoring of voltage supply

Operating elements
reset, menu selection, enter

Safety
Continuous self-surveillance of temperature range, sensor life-time, unplausible values, EEPROM system, internal data transfer

Enclosure
synthetic, IP 54, splash-water proof

Diameters
168 x 125 x 47 mm (without connections)

Voltage Supply
Adapter 100 ... 240 V AC, 50 / 60 Hz

Measuring unit

Temperature (gas / environment)
0 ... +45 °C

Menu items
- 4-digit digital display for gas concentration within range 0 ... 9999 ppm
- 3-digit digital display for concentration within range 1 ... 5%
- additional digital display to measure temperature in °C and °F
- LEDs for operation, alarm 1, 2 and monitoring of voltage supply

Display elements
Function test, reset, menu selection, enter, shifting between °C and °F

Enclosure
aluminum, IP 54, splash water proof

Diameters
118 x 85 x 34 mm (without connections)

Voltage Supply
via data cable to gas detector

Delivery Content

1 x air quality meter PCE-WMM 50
1 x instruction manual