

CO2 Analyser PCE-WMM 100



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CO2 warning device for carbon dioxide and oxygen/ Adjustable alarms / 4-digit LC display / Consisting of main and remote unit/ Relay contacts / Analog output

The CO2 warning device PCE-WMM 100 consists of a main unit and a remote display. The CO2 gas detector PCE-WMM 100 is used to measure carbon dioxide and oxygen in a fixed location. The CO2 warning device protects people from the odourless gas CO2 and also warns of low oxygen content in the air. The gas warning system displays the measured values on an LCD. The PCE-WMM 100 CO2 warning device has two relays that can be used to control alarm lights or sounders. Furthermore, the CO2 warning device has an integrated, acoustic alarm, which emits an audio signal of 80 db in the event of an alarm.

The warning device is used wherever CO2 can be released. This can be in warehouses, breweries, wine cellars or restaurants. The main unit is protected to IP54. 4 LEDs on the front provide information about the system status.

- ▶ CO2 and O2 sensor
- ▶ Main and remote unit
- ▶ Alarm relay
- ▶ 4 ... 20 mA analog output
- ▶ Acoustic alarm
- ▶ Integrated temperature measurement

Specifications

Measuring function	CO2
Measuring range	0 ... 50000 ppm
Resolution	<10000 ppm: 10 ppm >10001 ppm: 100 ppm
Accuracy	± 100 ppm / 5 % of measured value
Measuring function	O2
Measuring range	O2: 0 ... 30 %
Resolution	0.1 %
Accuracy	< 3 % of measured value
Measuring function	Temperature
Measuring range	0 ... 50 °C / 32 ... 122 °F
Resolution	0.1 °C
Accuracy	± 1 °C
Repeatability	CO2: ±20 ppm at 400 ppm O2: < ±1 %
Temperature dependence (at 25 °C)	± 0.3 % of measured value / °C ± 2 ppm / °C (the larger value applies)
Pressure dependence	0.13 % of measured value / mmHg
Response time	CO2: T90 < 60s O2: T90 < 30s Temperature: 20 ... 30 m
Alarm 1	CO2: 5000 ppm, 1 %, 1.5 %, 2 % O2: 18 %, 18.5 %, 19 %, 19.5 %, 20 %
Alarm 2	CO2: 1.5 %, 2 %, 2.5 %, 3 %, 3.5 %, 4 % O2: 16 %, 16.5 %, 17 %, 17.5 %, 18 %
Alarm sound volume	80 db / 0.1 m
Heating time	< 60 s at 22 °C ambient temperature
Power supply	Power adapter 100 ... 240 V AC / 6 V DC / 0.5 A
Analog output	2 x 4 ... 20 mA
Load	<150 Ohm
Relay	max. 2 A / 30 V DC / 250 V AC
Operating conditions	0 ... 40 °C / 32 ... 104 °F / max 95 % r.H.
Storage conditions	-20 ... 60 °C / -4 ... 140 °F / max. 95 % r.H.
Degree of protection	Main unit: IP54 Remote unit: -
Dimensions	Main unit: 170 x 63 x 26 mm / 6.6 x 2.4 x 1.0" Remote unit: 80 x 35.7 x 10 mm / 3.1 x 1.4 x 0.3"
Weight	Main unit: 1200 g incl cable Remote unit: 120 g / 4.2 oz

Subject to change