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TGE-0010, CO2 Logger, 0-2000ppm

â‚¬ 503,37 (including 19 % tax)

TGE-0010, CO_2 Logger, 0-2000ppm

The CO_2 logger measures and records the readings of carbon dioxide concentration in the ambient air. Carbon dioxide is a measure for indoor air quality, and thus, for the quality of ventilation and of HVAC systems. CO_2 concentrations above 1000ppm can cause problems of well-being and health risks in the long run.

For the most applications the range of 0-2000ppm is sufficient.
For more specialized situations a 0-5000ppm version is also available.

The CO_2 loggers are user-friendly and reliable, accurate, cost- effective and ideally suited to applications such as building monitoring, where it can play a key role in helping to veryfy that ventilation systems are performing correctly.

Self-calibration: The logger uses a self-calibrating NDIR sensor. This uses an infrared source to accurately measure the carbon dioxide concentrations in an application. Over time, the properties of the infrared source will change, so the sensor uses a second infrared source, that is only powered up occasionally, to calibrate the first. This patented measurement technique allows for excellent long-term accuracy and stability.

For the operation of the datalogger you need the Tinytag Explorer software and a USB interface cable. These can be ordered additionally as a software starter Pack 5.

Benefits:

- Check correct operation of HVAC systems
- Identify energy saving options in over-ventilated spaces
- Verify whether UK and European standards for CO_2 levels are being met

Features:
- Cost-effective
- Discreet case, suitable for wall mounting
- Mains powered (UK/EU/US mains adaptor supplied)
- Self calibrating
- Uses Tinytag Explorer software

Technical data:
Sensor:
Sensor type: NDIR infra-red CO_2 sensor
Measuring range: 0-2000ppm CO_2
Resolution:0.1ppm
Accuracy: < Â± (50ppm +2% of measuring value)
at 25Â°C and 1013mbar air pressure
Response time t_{63}: <195s
Temperature dependence: 2ppm CO_2/Â°C
Long term stability: 20ppm/year (typical)
A warm-up time of 5 minutes is required to achieve values specified above.
The sensor needs an external power supply, which comes with the unit as a universal power supply.

Logger:
Total reading capacity: 32,000 readings
Memory type: non volatile
Delayed start: relative/absolute (up to 45 days)
Stop options: when full
after n readings
never (overwrite oldest data)
Reading types: actual, min, max.
Logging interval: 1 min to 10 days
Offload: while logging or after logging
Alarms: 1, fully programmable; latchable (a second alarm can be programmed at the expense of the â€œno-powerâ€• warning)
Logger backup battery: CR2325 button cell
The unit also has a +18V DC screw terminal connection on its circuit board that can be used to power the unit from a separate supply if required.

General data:
Working temperature range: -20Â°C to +60Â°C
Case dimensions: 85 x 100 x 26 mmÂ³ (W x H x D)
Weight: 100g
Vendor Information