

CO2 Analyser PCE-HT 422



CO2 Analyser for temperature, relative humidity, CO2, TVOC and light intensity / 4GB memory / Power over Ethernet / MQTT / Email alarm / HTTP / FTP

The CO2 analyser is used to measure and store environmental data such as temperature, humidity, illuminance, CO2 content and TVOC concentration. The data logger also calculates the dew point, absolute humidity and the water vapor content in the air. The climate data logger is used for stationary monitoring of laboratories, greenhouses, medicine and food stores, museums, etc. The data measured and calculated by the data logger are stored in the internal memory and can be called up via Ethernet and sent to the user. In addition to storing the measurement data, the climate data logger can send alarms by email or display them on a website. The data logger can be supplied via a power supply unit or autonomously via Power over Ethernet. An internal battery is built into the climate data logger to buffer the memory and the settings.

In addition to the built-in Ethernet interface, the data logger also has an RS485 interface available to the user. This can be addressed via Modbus RTU. The user can communicate with the climate data logger via Modbus TCP / IP, HTTP, FTP via the Ethernet interface. A web and FTP server as well as a DHCP and SMTP client complete the functionality of the data logger's network interface.

- ▶ Temperature measuring range (-20 ... +60 °C)
- ▶ Relative humidity measuring range (0 ... 95%)
- ▶ CO2, TVOC and light measurement
- ▶ Ethernet interface (PoE compatible)
- ▶ Alarm (acoustic, email, visual)
- ▶ 4 GB memory
- ▶ Adjustable sampling / storage rate
- ▶ FTP, HTTP server

Subject to change

Specifications

Measured variable	Air humidity
Measuring range	0 ... 95% r.H.
Accuracy	± 3 % of reading (10 .. 90 %) ± 5 % of other
Resolution	-

Measured variable	Temperature
Measuring range	-20 ... 60 °C
Accuracy	± 0.6 °C (10 ... 40 °C) ± 1 °C of other
Resolution	-

Measured variable	Illuminance
Measuring range	0 ... 60000 lx
Accuracy	-
Resolution	-

Measured variable	TVOC
Measuring range	0 ... 60000 ppb
Accuracy	-
Resolution	1 ppb (0 ... 2008 ppb) 6 ppb (... 11110 ppb) 32 ppb (... 60000 ppb)

Measured variable	CO2
Measuring range	400... 60000 ppm
Accuracy	-
Resolution	1 ppm (400 ..1479ppm) 3 ppm (... 5144 ppm) 9 (...17597 ppm) 31 ppm (.. 60000 ppm)

Measured variables	dew point absolute humidity saturated steam pressure, enthalpy
Interface	RS485 (Modbus RTU)

More information

Manual



More product info



Similar products



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Ethernet	Modbus TCP, HTTP, FTP, MQTT
Memory	4 GB
Power supply	DC power pack 6 V / 1 A PoE IEEE 802.3af
Power consumption	< 2 VA
Warm-up time	15 minutes
Operating conditions	-20 ... 60° / 95% r.H
Degree of protection	IP20
Mounting	Rear mounting hole for Wall mounting, sensor facing down
Dimensions	120 x 80 x 25 mm
Weight	300 g

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