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H5021 CO₂ concentration transmitter with two relay outputs



code: H5021
CO₂ level transmitter with two output relays.

The device is supplied with CO₂ probe with 1m cable. Cable lengths 2, 4 or 10 meters available optionally.



Included in delivery:

- Traceable calibration certificate
- Quick start manual
- Free program TSensor for configuring of the transmitter is ready to [Download](#)

Transmitter is also equipped with three alarm LEDs:

Green LED shines - CO₂ concentration 0 to 1000 ppm

Yellow LED shines - CO₂ concentration 1001 to 1200 ppm

Red LED shines - CO₂ concentration 1201 ppm and more

Features

The CO₂ - carbon dioxide level is recently regarded as an important parameter that substantially determines the quality of the interior climate. Especially in buildings where many people gather, such meeting rooms, hospitals, schools, cinemas, theatres and care centres. With the help of CO₂ sensor engineers, technical advisors, environmental experts and health specialists can optimize the ventilation for creation of a healthy interior climate.

Method of CO₂ sensor multipoint calibration leads to an excellent accuracy measurements of CO₂ in the entire of operating temperature range. With this sensor is the device able to meet the demanding requirements for outdoor use. The measurement principle is based on the NDIR principle with dual wavelength, which automatically compensates for aging of the sensor. The sensor is resistant against the pollution and provides maintenance-free operation and excellent long-term stability.

APPLICATIONS - measuring of CO₂ level at:

- building HVAC management
- climate technology
- schools, universities
- meeting rooms, hospitals, cinemas, theatres
- weather stations

Transmitter is equipped with two relay outputs for alarm indication or control of external devices. For each relay setting of delay, hysteresis, audible alarm is enabled.

Parameters are easy adjustable from regulator keyboard or from the computer.

Transmitter contains a microprocessor based control circuitry in a durable plastic case with connection terminals.

The CO₂ concentration sensor is built inside the case.

Large dual line LCD is an advantage. Display is possible to switch off. Computerized design ensures maximum long term stability and failure indication.

To set regulator easily by the user from the PC program buying of SP003 cable is necessary - see Optional accessory.

Free configuration program TSensor for regulator adjustment is ready to download anytime.

It is also enabled to adjust regulator from the instrument keyboard.

Technical Data

Technical parameters	Value
Output	None
Measured Value	CO2
Construction Type	For External Probes
Design	Industrial
Temperature Measuring Range	to °C
Relay Output	Yes
Two-State Input	No
Lcd Display	Yes
PoE	No
Maximum switching voltage, current, power of relay output	50V, 2A, 60VA
Audible alarm	from built-in beeper - switchable
Range of CO2 concentration measurement	0 to 10000ppm
Accuracy of CO2 concentration measurement	±(100ppm +5% from reading) at 25°C and 1013hPa
Temperature operating range	-30 to +60°C
Measuring interval of CO2	15s
IP protection	IP65
Power	9-30Vdc, power consumption approximately 1W
Dimensions	136 x 150 x 45 mm (W x H x D)
Weight	approximately 360g

Warranty	3 years
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