# Temperature, humidity, CO2 transmitter with two relay and RS485 outputs



code: H6420

Temperature, humidity, CO2 level sensor with two output relays.

## 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

Optional $CO_2$ measuring range extension from the standard 0 to 5,000 ppm up to 0 to 10,000 ppm (available at extra cost):

- **Extended measuring range:** 0 to 10 000 ppm
- **Accuracy in extended range:** 100 ppm + 5% of the measured value at 25 °C and 1013 hPa

### Technical data

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| TEMPERATURE SENSOR | |
| Measuring range | -30 to +80 °C |
| Accuracy | ±0.4 °C |
| Resolution | 0.1 °C |
| HUMIDITY SENSOR | |
| Measuring range | 0 to 100 % RH |
| Accuracy | ±2.5 % RH from 5 to 95 % at 23 °C |
| Resolution | 0.1% RH |
| DEW POINT | |
| Measuring range | -60 to +80 °C |
| Accuracy | ±1.5 °C at ambient temperature T <25 °C and RH >30 % |
| Resolution | 0.1 °C |
| CO2 SENSOR | |
| Measuring range | 0 to 5000 ppm |
| Accuracy | ±(50ppm +3% from reading) at 25°C and 1013hPa |
| Resolution | 1 ppm |
| RELAY OUTPUTS | |
| Quantity | 2 |
| Maximal voltage | 50 V |

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|---|---|
| Maximal current | 2 A |
| Maximal power | 60 VA |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +60 °C |
| Channels | internal temperature, humidity and CO<sub>2</sub> sensor |
| Counted values | dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy |
| Acoustic alarm | from built-in beeper - switchable |
| Output | RS485 |
| Range of humidity sensor temperature compensation | all temperature range |
| Available temperature units | degrees Celsius, degrees Fahrenheit |
| Communication protocol | ModBus RTU and Advantech ADAM compatible protocol |
| Power | 9-30 Vdc |
| Protection class | IP30 electronics; IP40 sensors |
| Dimensions | 136 x 213 x 45 mm; stem length 75mm |
| Weight | approx. 360 g |
| Warranty | 3 years |