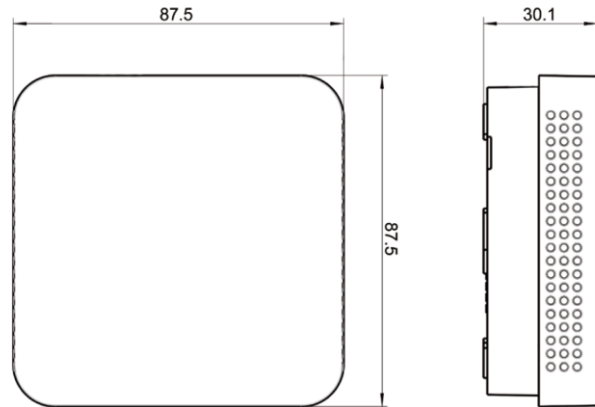


TECHNICAL DRAWINGS



INSTALLATION INSTRUCTIONS

- The convection must be aligned at the bottom/upside to ensure an optimal airflow
- The sensor should always be mounted on the opposite wall of the radiator
- Ideal mounting height 1,5m above the floor.

TYPE SELECTION

Article No.	Output PPM.	Output TEMP.	Output Hum.
R-CO2T-A-10	0-10V	-	-
R-CO2TT-A-1010	0-10V	0-10V	-
R-CO2RH-TT-A-1010	0-10V	0-10V	0-10V
R-CO2T-A-20	4-20mA	-	-
R-CO2TT-A-2020	4-20mA	4-20mA	-
R-CO2RH-A-2020	4-20mA	-	4-20mA

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R-CO2.....

INDOOR SENSOR FOR CARBON DIOXID



Made in Germany

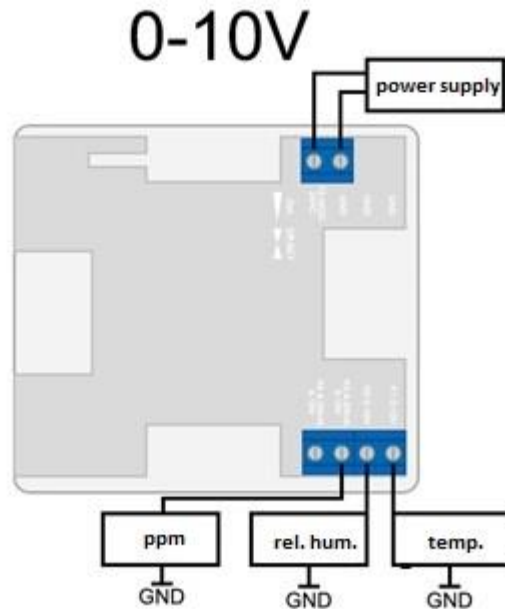
Application:

Our R-CO2 records the ambient air's CO2 concentration in living and office spaces. The R-CO2 converts the the values mesured in the ranges of optionally 0-2000 ppm or 0-5000 ppm into a linear 0-10 V output signal. The CO2 value is measured via the NDIR sensor, which is able to compensate possible pollution with the help of its 2-ray measuring principle. Optionally, our R-CO2 is available with an additional sensor for measuring temperature and humidity.

TECHNICAL DATA

Power supply:	At 0...10V: 16...24VDC or 24V / AC
	at 4...20mA: 16...24V / DC
Current consumption:	9 mA
Electrical connection:	Srew clamps
output:	0...10 V or 4-20mA
Sensor element:	NDIR – sensor automatic calibration with dual beam method
Measurement range CO2:	0...2000 ppm
accuracy:	< ± (50ppm +2% of the measurement) at 25°C and 1013 mbar
optional:	
temperature:	0...10 V or 4-20mA / 0°C...+50°C
accuracy:	±0,5°C
humidity:	0...10 V or 4-20mA / 0...100% r.F.
accuracy:	< ± 3% at 25°C between 10...90% r.F.
Operating temperature:	0°C...+50°C
humidity:	10...95% r.F.
protection:	IP20
case:	material ABS
colour:	RAL9010

ELECTRICAL CONNECTION



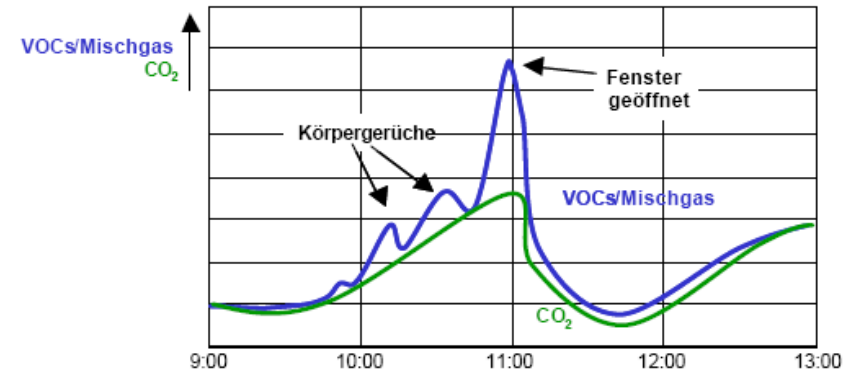
Notes:

The sensor is designed for normal ambient conditions (ambient air), aggressive gases can destroy him. The location has a decisive effect on the measurement accuracy. Windows (cold outer wall) or door close (drafts) should be avoided.

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COMMISSIONING NOTES



GENERAL INFORMATIONS

- Installation of the equipment must be performed by qualified personnel.
- The units may be connected with the power off.
- The safety of the VDE, the states, the TÜV and the local energy supply company must be observed.
- The EMC guidelines must be observed. It can be used shielded connecting lines, laying parallel with current-carrying
- Lines should be avoided.
- The operating near devices that do not comply with EMC directives may adversely affect the operation of
- The buyer is responsible for ensuring compliance with the applicable building and safety guidelines
- This product should not be used for safety-related tasks, such as for the protection of persons and emergency stop switch on equipment.
- Improper use of any defects and damages are excluded from the warranty and liability.
- Consequential damages caused by a fault in this device are excluded from warranty or liability.
- It Only the technical data and connecting conditions of installation and operating instructions supplied with the instrument. Changes are always possible in terms of technical progress and the improvement of the products.
- Changes of the device by the user, all warranty claims.