NENUTEC®

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TCO2C – CO_2, temperature transmitter

Duct type transmitter for CO_2 and temperature measurement in HVAC-systems



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

SERIA TCO2C

APPLICATION AND USE

TCO2C transmitter is intended for installation in ventilation ducts or similar applications. It is designed for ventilation and air conditioning systems in domestic areas and commercial buildings.

It allows measurement of CO_2 concentration and temperature, and requires no periodic calibration.

KEY FEATURES

- NDIR sensor
- Voltage output 0...10 V_{DC} or 0...5 V_{DC} (for CO_2)
- Passive temperature sensor output
- 24...35 V_{DC} or 24 V_{AC} ± 10%, 50-60 Hz

TYPE	DESCRIPTON	CO2 OUTPUT	ACCURACY [°C]
TCO2C	CO_2	0...10 V	
TCO2C-05	CO_2	0...5 V	
TCO2C-PT100	CO_2+ PT100, 100 Ohm/0°C	0...10 V + passive sensor (resistance)	± 0.3
TCO2C-PT1000	CO_2+ PT1000, 1000 Ohm/0°C	0...10 V + passive sensor (resistance)	± 0.3
TCO2C-NTC1.8	CO_2+ NTC 1.8, 1800 Ohm/25°C	0...10 V + passive sensor (resistance)	± 0.5
TCO2C-NTC2.2	CO_2+ NTC 2.2, 2252 Ohm/25°C	0...10 V + passive sensor (resistance)	± 0.2
TCO2C-NTC10-01	CO_2+ NTC 10, 10kOhm/25°C	0...10 V + passive sensor (resistance)	± 0.2
TCO2C-NTC10-02	CO_2+ NTC 10, 10kOhm/25°C	0...10 V + passive sensor (resistance)	± 0.3
TCO2C-NTC10-03	CO_2+ NTC 10, 10kOhm/25°C	0...10 V + passive sensor (resistance)	± 0.25
TCO2C-NTC20	CO_2+ NTC 20, 20kOhm/25°C	0...10 V + passive sensor (resistance)	± 0.2
TCO2C-NI1000-01	CO_2+ Ni1000, 1000 Ohm/0°C	0...10 V + passive sensor (resistance)	± 0.5
TCO2C-NI1000-02	CO_2+ Ni1000, 1000 Ohm/0°C	0...10 V + passive sensor (resistance)	± 0.5
ACCESORIES	DBZ-22 – Mounting bracket for TCO2C duct transmitters		
Note: TCO2C transmitters are supplied with DBZ-22 mounting bracket.			

Technical specifications

Power supply	24...35 V_{DC} or 24 V_{AC} ± 10%, 50-60 Hz
CO_2 sensor:	NDIR sensor accuracy ±(50ppm +2% of value) time stability ±20ppm/year CO_2 sampling period: 15 s maximum air velocity 10 m/s
Voltage output	0...10 V_{DC} or 0...5 V_{DC}, RL >10 kΩ
Power consumption	< 2.5 W
Energy consumption	< 0.5 Wh
Transformer size	5 VA
CO_2 concentration range	0...2000 ppm
Working temperature range	0...+50ºC
Working conditions	10...90 % rH (non condensing)
Temperature drift	2 ppm CO_2/ºC

Storage	-20...+70ºC < 95% rH
Housing	Cover: white polycarbonate Base: gray polycarbonate
Protection class	IP65, cable gland on side of the housing, class III
Dimensions	75 x 77 x 36 mm (housing) (pipe: length 230mm, diameter 12mm)
Weight	160 g

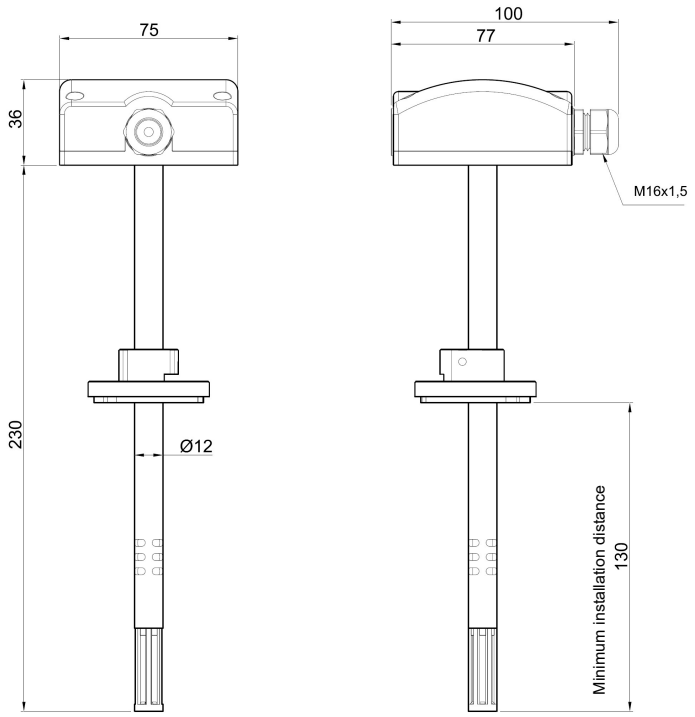
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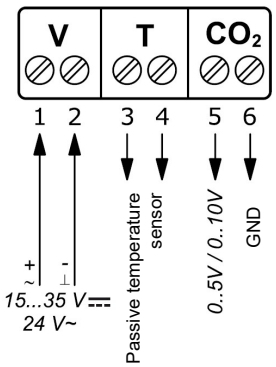
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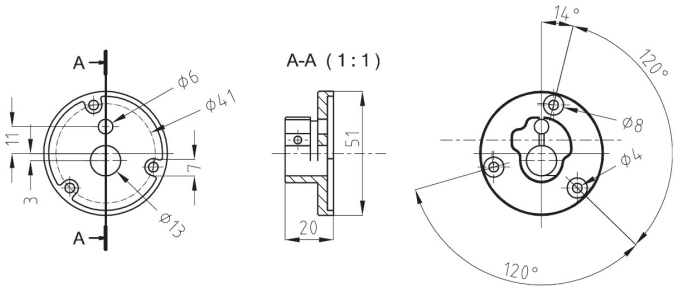
DIMENSIONS [mm]



ELECTRICAL WIRING



MOUNTING BRACKET



Due to continuous product improvement, specifications are subject to change without notice.

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