TCO2A– CO_2, temperature transmitter

Room CO_2 and temperature transmitter for measurement in HVAC-systems



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

SERIA TCO2A

APPLICATION AND USE

The TCO2A transmitters are designed for measurement of temperature and/or CO_2 concentration in not industrial sites. They are designed for heating, cooling and air handling in domestic areas and commercial buildings.

The transmitters are equipped with voltage output.

KEY FEATURES

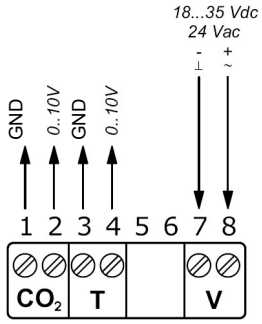
- Voltage output 0...10 V_{DC}
- Power supply 24...35 V_{DC} or 24 V_{AC}

Type	Display	CO_2 measurement range	Temperature measuring range	Output signal
TCO2A	-	0..2000 ppm	0...50°C	0…10 V_{DC}
TCO2A-D	yes	0..2000 ppm	0...50°C	0…10 V_{DC}

Technical specifications

Power supply:	24 V_{AC} / 15...35 V_{DC}	
Outputs:	CO_2:	0... 10 V_{DC} corresponding to 0...2000 ppm
	Temperature:	0... 10 V_{DC} corresponding to 0... 50°C
Temp. sensor:	see table	
CO_2 sensor:	NDIR	
	precision (25°C) ±(50ppm +2% of measurement value)	
	CO_2 sampling period: 15 s	
Ambient temperature:	0...50°C	
Ambient humidity:	10..90% rH, non condensing	
Min. and max. voltage for output 0..10V:	0 V_{DC} and 11.5 V_{DC}	
Display:	4 digit depending on the model (temperature, CO_2 concentration)	
Power consumption:	< 1 W	
Housing:	85 x 100 x 30.5 mm	
Protection:	IP30	
CE standards:	EN 60730-1, EN 61000-6-1 , EN 61000-6-3	

ELECTRICAL WIRING



Load resistance R_L connected to output, R_L > 10000 Ω

NOTE!

Each single operation done on the unit, either installation or maintenance, must be done without main supply on the unit and external loads. Such operations are permitted only by skilled workers. Nenutec is not responsible for possible damages caused by an inadequate installation and/or by removed or exchanged security devices.

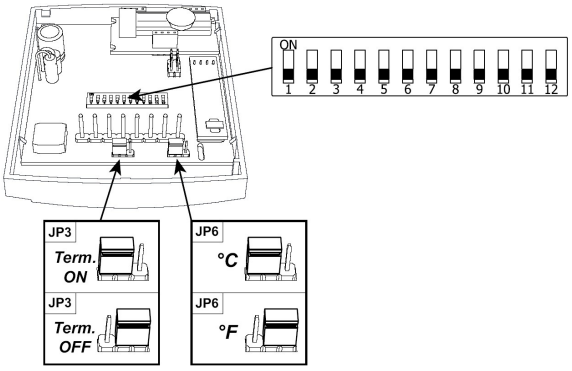
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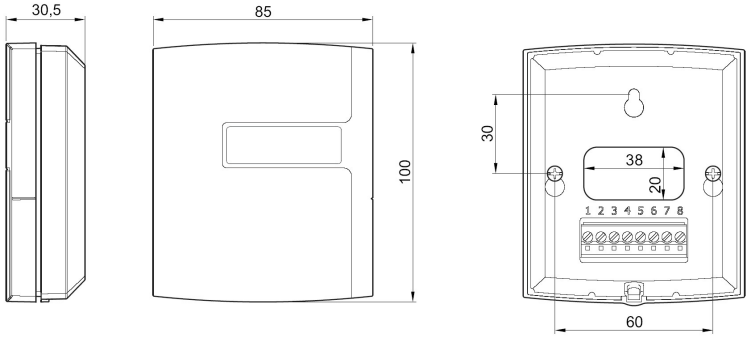
DISPLAY

At startup, the display indicates the flashing message “WAIT”, and then alternates the values of sensors every 5 seconds. If temperature is out of scale, message “LowT“ (T < 2°C) or “HiGT“ (T > 52°C) is indicated. Temperature can be visualized in °C or °F selecting position of jumper JP6.

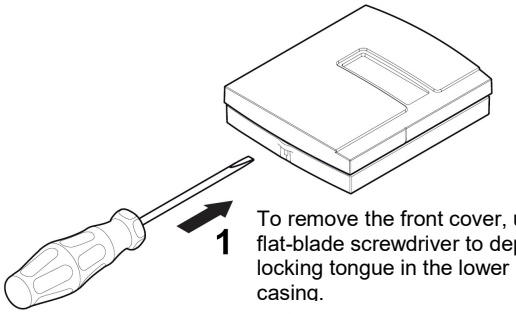
JUMPER SETTING



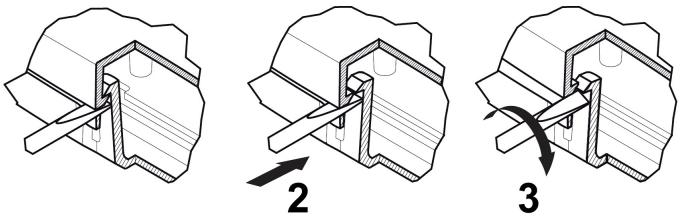
DIMENSIONS



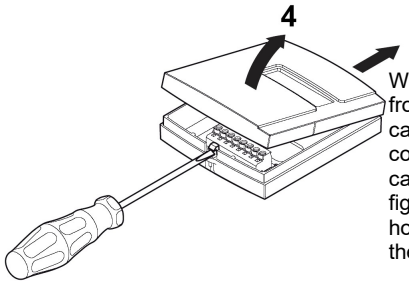
INSTALLATION



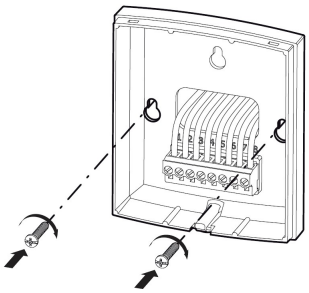
To remove the front cover, use a 3mm flat-blade screwdriver to depress the locking tongue in the lower part of the casing.



Press and twist the screwdriver and at the , same time pull the bottom part of the front outwards.



When the bottom end of the front cover is free from the casing bottom part, slide the cover towards the top of the casing (arrow #5 on the figure) to free the hooks holding the upper edge of the front cover.



Do the connections according to electrical wiring diagrams.

Fix the bottom part of the casing on the wall.

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

Nenutec Polska

00-236 Warszawa
ul. Świętojerska 5/7
tel.: +48-(0)-504-050225
nenutec@nenutec.pl