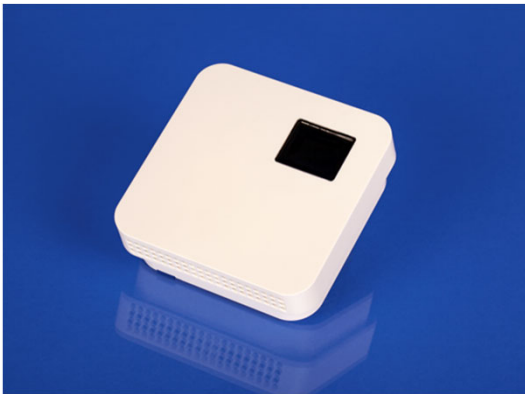




TRTC 010
ABS plastic enclosure without LCD display



TRTC 010D
ABS plastic enclosure with LCD display



TRTC 010 SS
stainless steel enclosure
secure vandalism version for schools,
military barracks and public buildings

Features

- Active transmitters
0-10 Vdc or 4-20 mA output
- With or without display
- Multiple different temperature ranges in same unit,
selectable via DIP-switches on pcb
- IP 30
- ABS plastic enclosure or stainless steel enclosure

Ordering

Room temperature transmitter

Type no.	Output	Housing	Display
TRTC 010	0-10 Vdc	ABS plastic	No
TRTC 010D	0-10 Vdc	ABS plastic	Yes
TRTC 010SS	0-10 Vdc	stainless steel	No
TRTC 420	4-20 mA	ABS plastic	No
TRTC 420D	4-20 mA	ABS plastic	Yes
TRTC 420SS	4-20 mA	stainless steel	No

Technical data

Sensing element

PT1000, DIN EN 60751, class B (2-wired)

Outputs

0-10 Vdc, 3 –wire

4-20 mA, 3-wire (on request 2-wire)

Power supply

24 Vac/dc

Power consumption

24 to 44 mA

Accuracy

+/-0.2K a+/-1% full scale (after 60 min.)

Admissible environmental conditions

-30°C to +70°C, 0 to 98% r.H.

Protection type

IP30

Enclosures

ABS plastic 87.5 x 87.5 x 30 mm

stainless steel 75x75x25 mm

Standards

CE

Display

Only for TRTS 010D and TRTS 420D

Description

The room temperature transmitter TRTC have been designed for wall mounting and is used to sense temperature in heating, ventilating and air conditioning systems.

The housing of room temperature transmitter TRTC have ventilated openings with connection terminal PCB and temperature sensing element inside the housing.

The room temperature transmitter TRTC can be mounted on surface or on a conduit box.

Active room temperature transmitter TRTC have 0-10 Vdc or 4-20 mA output with multiple different temperature ranges in same unit, selectable via DIP switches on pcb.

The power supply for room temperature transmitter TRTC with 4-20 mA output is 15-36 Vdc and the power supply for room temperature transmitter TRTC with 0-10 Vdc output is 24 Vac/dc.

The active room temperature transmitter TRTC with output 0-10 Vdc and 4-20 mA have a PT1000 sensor (DIN EN 60751, class B).

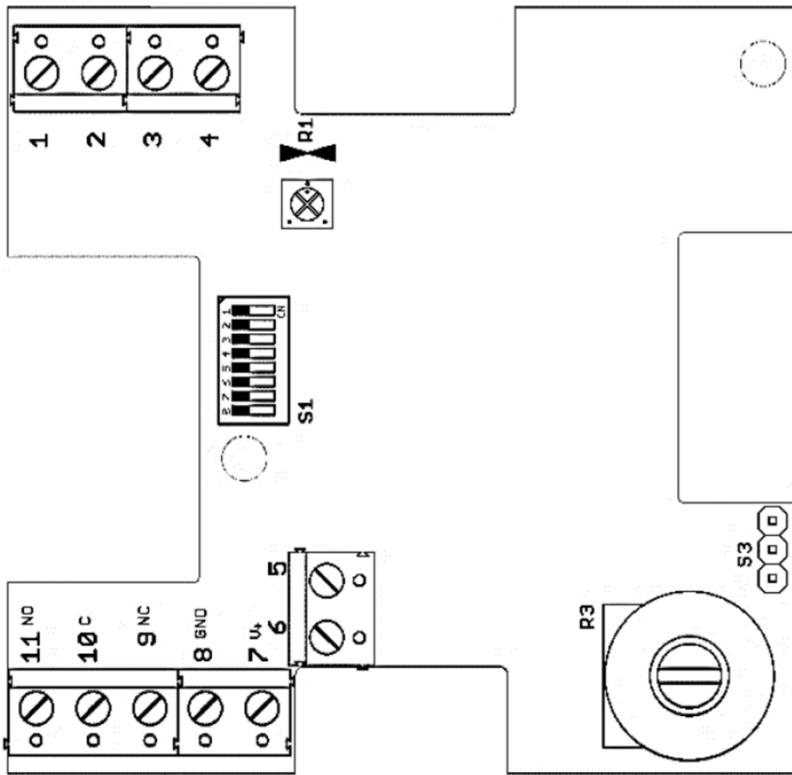
TRTC room temperature transmitter can be supplied with or without LCD display (ABS plastic enclosure). The built-in LCD display for room temperature transmitter TRTC show the actual value in degree Celcius.

Stainless steel enclosure available for TRTC room temperature transmitter, stainless steel enclosure is a vandalism secure version for schools, military barracks and public buildings.

Room temperature transmitter TRTC with stainless steel enclosure only available without LCD display.

The room temperature transmitter TRTC have IP 30 protection

Electrical connection



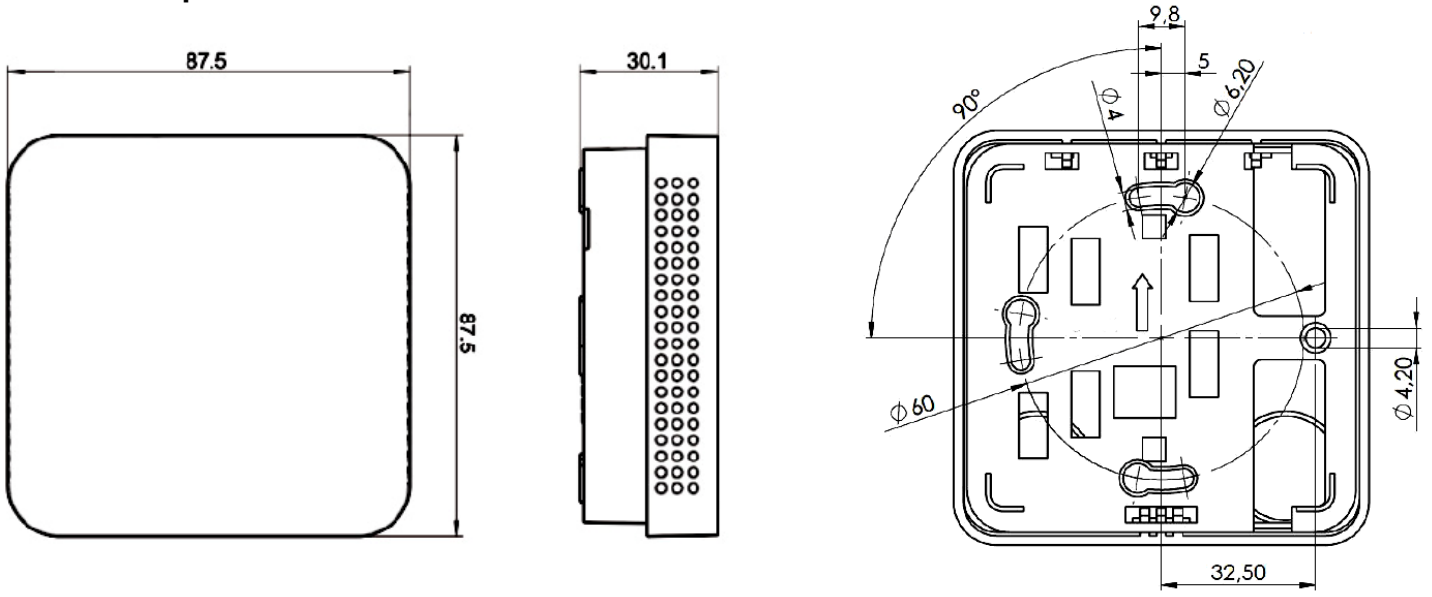
TRTC 010 (0-10 V)		TRTC 420 (4-20 mA)	
Pin	Assignment	Pin	Assignment
1	temp	1	-
2	(active poti)	2	-
3	-	3	temp
4	-	4	-
5			(passive poti)
6			(passive poti)
7			V+
8			GND
9			(relay NC)
10			(relay C)
11			(relay NO)
R1			temp. adjustment
S3			polarity R3

Poti, Relay and temp.adjustment are options

Measurement ranges DIP-switches (S1)

Bereich Range	1	2	3	4	5	6	7	8
-100... 50 °C	OFF	OFF	OFF	OFF	OFF	N/A	N/A	N/A
-50...0 °C	ON	OFF	OFF	OFF	OFF	N/A	N/A	N/A
-50...50 °C	OFF	ON	OFF	OFF	OFF	N/A	N/A	N/A
-50... 150 °C	ON	ON	OFF	OFF	OFF	N/A	N/A	N/A
-30 ... 20 °C	OFF	OFF	ON	OFF	OFF	N/A	N/A	N/A
-30...60 °C	ON	OFF	ON	OFF	OFF	N/A	N/A	N/A
-30...70 °C	OFF	ON	ON	OFF	OFF	N/A	N/A	N/A
-20...50 °C	ON	ON	ON	OFF	OFF	N/A	N/A	N/A
-20...80 °C	OFF	OFF	OFF	ON	OFF	N/A	N/A	N/A
-20...120 °C	ON	OFF	OFF	ON	OFF	N/A	N/A	N/A
-20...150 °C	OFF	ON	OFF	ON	OFF	N/A	N/A	N/A
-10... 15 °C	ON	ON	OFF	ON	OFF	N/A	N/A	N/A
-10...120 °C	OFF	OFF	ON	ON	OFF	N/A	N/A	N/A
0...40 °C	ON	OFF	ON	ON	OFF	N/A	N/A	N/A
0...50 °C	OFF	ON	ON	ON	OFF	N/A	N/A	N/A
0...70 °C	ON	ON	ON	ON	OFF	N/A	N/A	N/A
0...100 °C	OFF	OFF	OFF	OFF	ON	N/A	N/A	N/A
0...150 °C	ON	OFF	OFF	OFF	ON	N/A	N/A	N/A
0...160 °C	OFF	ON	OFF	OFF	ON	N/A	N/A	N/A
0...200 °C	ON	ON	OFF	OFF	ON	N/A	N/A	N/A
0...250 °C	OFF	OFF	ON	OFF	ON	N/A	N/A	N/A
0...400 °C	ON	OFF	ON	OFF	ON	N/A	N/A	N/A
0...600 °C	OFF	ON	ON	OFF	ON	N/A	N/A	N/A
10...35 °C	ON	ON	ON	OFF	ON	N/A	N/A	N/A

Dimensions plastic ABS enclosure



Dimensions stainless steel enclosure

