TRTS
without LCD display

TRTS xxxD
with LCD display

TRTS xxxSS
stainless steel enclosure

staineless steel enclosure,
vandalism secure version
for schools, military barracks
and public buildings

Features

- **Active transmitters**
  - **0-10 Vdc or 4-20 mA output**
  - **8 different temperature ranges in same unit, selectable via jumpers on pcb**
  - -20℃ to +150℃, -50℃ to +50℃, -20℃ to +80℃, -30℃ to +60℃, 0 to +40℃, 0 to +50℃, 0 to +100℃ and 0 to +150℃.
    - other temperature ranges on request
- **IP 30**
- **ABS plastic enclosure or stainless steel enclosure**

Application/Description

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

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

The unit can be mounted on surface or on a conduit box.

Ordering

Room temperature transmitter

Type no.	Output	Housing	Display
TRTS PT	PT100	ABS plastic	No
TRTS 010	0-10 Vdc	ABS plastic	No
TRTS 010D	0-10 Vdc	ABS plastic	Yes
TRTS 010SS	0-10 Vdc	stainless steel	No
TRTS 420	4-20 mA	ABS plastic	No
TRTS 420D	4-20 mA	ABS plastic	Yes
TRTS 420SS	4-20 mA	stainless steel	No

Dimensions in mm for stainless steel housing
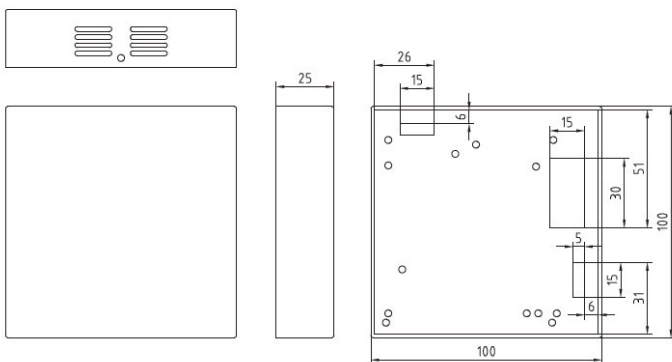
Dimensions in mm for ABS plastic enclosure
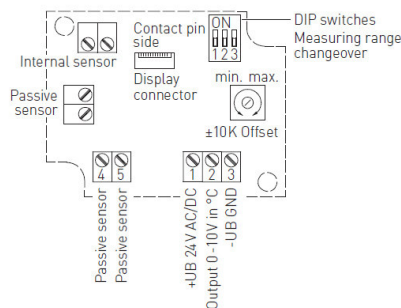
www.dfpsensors.com
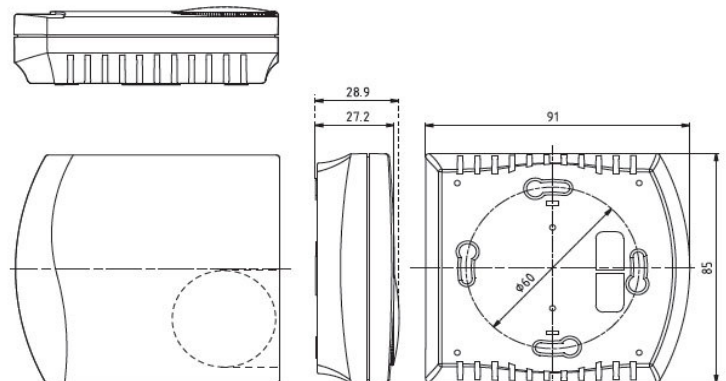
Technical data

Measuring ranges 8 different temperature ranges in same unit as standard selectable via jumpers on pcb. with manual zero point correction (+/-10K)

Sensing element PT1000, DIN EN 60751, class B

Accuracy 0.3 K (Kelvin)

Connections 3-wire for 0-10 Vdc
2-wire for 4-20 mA

Power supply 24 Vac/dc +/- 10% for output 0-10 Vdc
15-35 Vdc for output 4-20 mA

Protection type IP30 (according to EN 60529)

Ambient temperature -30 ℃ to +70 ℃

Humidity < 95% r.H. non-precipitating air

Protection class III (according to EN 60730)

Standards CE conformity, electromagnetic compatibility accoring to EN 61326:2006 according to EMC directive 2004/108/EC

Display 8-digit display, cutout 36x14 mm (W x H), for displaying actual temperature (only for TRTS 010D and TRTS 420D)
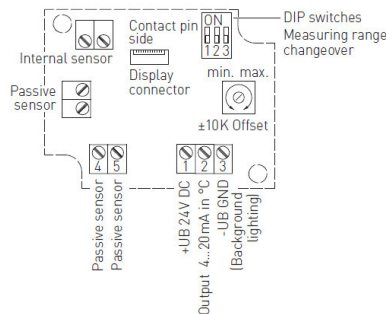
To open the enclosure,
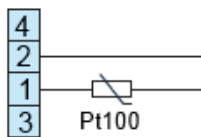set a screwdriver (2.0) in the groove at centre,
press down, and lift up the bottom frame slightly.
Pull top cover forward and hold it.
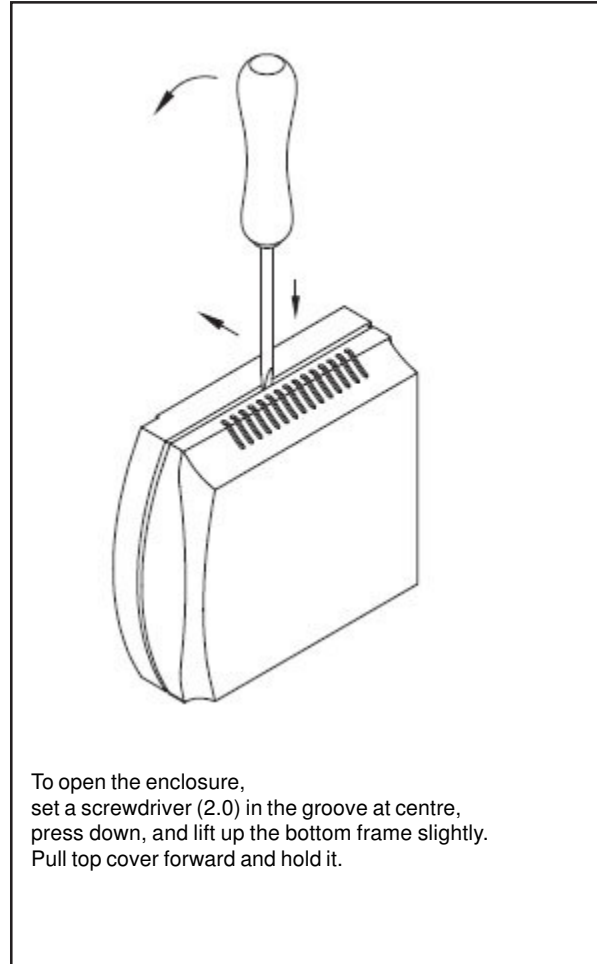
Electrical connections

TRTS 010

TRTS 420

8 different temperature ranges in same unit, selectable via jumpers on pcb

Measuring ranges (adjustable)	JP 1	JP 2	JP 3	JP 4
-20 ℃ ... + 150 ℃	●─●	●─●	●─●	●─●
-50 ℃ ... + 50 ℃	○ ○	●─●	●─●	●─●
-20 ℃ ... + 80 ℃	●─●	○ ○	●─●	●─●
-30 ℃ ... + 60 ℃	○ ○	○ ○	●─●	●─●
0 ℃ ... + 40 ℃	●─●	●─●	○ ○	●─●
0 ℃ ... + 50 ℃	○ ○	●─●	○ ○	●─●
0 ℃ ... + 100 ℃	●─●	○ ○	○ ○	●─●
0 ℃ ... + 150 ℃	○ ○	○ ○	○ ○	●─●

Pt100