

# RTD Thermometer *omnigrad TST602*

**Surface thermometer suitable for application  
measurement on flat surfaces or pipes  
Connection cable, radius or flat mounting block**



## Description

TST602 RTD thermometer consists of a radius or flat mounting block in aluminium including a built-in RTD, matched to a connection cable. The sensing element includes a single Pt100, in fiberglass insulated cable, having accuracy class A or B, with 3 or 4 wires. The connection cable, with free end wires and PVC or PTFE insulated, can be selected from a wide choice of standard lengths for any application up to 70°C or 180°C. It is supplied with free end wires.

## Application

TST602 RTD thermometer is a general purpose thermometer for surface measurements. It is suitable for application on flat surfaces or pipes and is specially designed for climatisation and general application in building automation and heat exchangers.

## Technical data

### Probe

Sensing element: Platinum resistance, 1 x Pt100  $\Omega$  at 0°C, standard type class A or B to IEC 751  
Tolerances: potting compound  
Insulation: 3 or 4 wire connections  
Wiring:  $\geq 100 \text{ M}\Omega$ , test voltage 250 V at ambient temperature  
Insulation resistance:

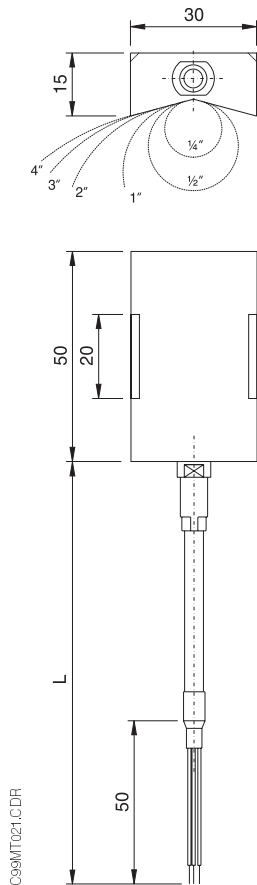
### Mounting

Versions: radius block for pipe diameters up to 4"  
flat block for pipes from 5" and flat surface  
Standard material: Aluminium  
Dimensions: 50 x 30 x 15 mm

### Connection cable

Versions: PVC insulated / PVC sheathed, 4 wires  
PTFE insulated / Silicone rubber sheathed, 4 wires  
PTFE insulated / PTFE sheathed, 4 wires  
Standard lengths: 1000, 2000, 2500, 3500 mm; others on request  
Operating temperature: PVC / PVC : -20°C to +70°C  
PTFE / Silicone : -20°C to +180°C  
PTFE / PTFE : -20°C to +180°C  
Electrical connection: free end wires

## Product structure



TST602

(all dimensions in millimeters)

### TST602- RTD Thermometer

Surface thermometer suitable for application measurement on flat surfaces or pipes, with connection cable and radius or flat mounting block in aluminium

#### Mounting version, material

- A - 50 x 30 x 15 radius block mounting
- B - 50 x 30 x 15 flat block mounting

#### RTD class and type of construction

- B - 1 Pt100, class B, 3 wires
- H - 1 Pt100, class A, 3 wires
- M - 1 Pt100, class A, 4 wires
- Y - RTD class and type to specification

#### Connection cable length L (500-30000mm)

- 1 - 1000 mm
- 2 - 2000 mm
- 3 - 2500 mm
- 4 - 3500 mm
- 8 - .... mm length to specification
- 9 - .... mm special length

#### Connection cable type

- A - PVC insulated - PVC sheathed - 4 wires
- B - PTFE insulated - Silicone sheathed - 4 wires
- C - PTFE insulated - PTFE sheathed - 4 wires
- Y - Connection cable type to specification

#### Connection cable, terminal type

- 11 - Free end wires
- 99 - Connection to specification

#### Built-in transmitter

- 0 - Without built-in transmitter

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Complete Order Code

## Accessories



TAF10

### Field housing TAF10

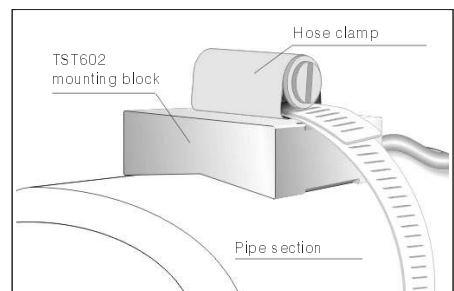
For field mounting a TAF10 housing for transmitter installation is available.

For further information please refer to:

- Field housing TAF10
- Operating Instructions KA 093R/09/a2

### Installation

Pipe mounting example using a hose clamp (not included):



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