



SERIES: TMT45

ULTRA SMALL SIZE

- 4-20 mA, 2-WIRE OUTPUT
- Pt100 SENSING ELEMENT
- EASY & FAST CONNECTION
- VIBRATION-PROOF DESIGN
- WATERPROOF - IP65 PROTECTION
- LOCAL INDICATOR WITHOUT OR WITH TWO OPTO CONTACTS (OPTION)

APPLICATIONS:

- Cars and Rail Vehicles
- Construction Machines
- Food & Sanitary Processes
- Other Industrial Processes

With local indicator;
available as option



INTRODUCTION

The new compact *TMT45* Temperature Transmitter with RTD Probe replaces expensive assemblies comprising RTD probe, terminal block, probe head and the temperature transmitter. Robust vibration-proof design, IP65 protection class and protected electronics by the means of a special compound, result into an exceptional probe; ideal for withstanding harsh environments.

Being very compact and definitely an economical approach to temperature measurement are other advantages of the *TMT45*. Utilizing the *TMT45* eliminates the use of stainless steel probe heads in food and sanitary industries, and thanks to their small dimensions, these temperature probes are applicable in cars, trains, construction machineries and other equipments, where space is limited.

The stainless steel *TMT45* sensors can be ordered in several ranges from -50° to 200°C. Various process connections as well as stem lengths from 2 to 30 cm, are available. Optionally it can be combined with the *DIS100* indicator (IP65). This combination can have no contact or two opto contacts.

SPECIFICATIONS

Sensing Element	Pt100 (w=1.385)
Ranges	-50°C to 200°C various ranges refer to the order code
Minimum Span Range	50°C
Output Signal	4...20 mA, 2-wire
Output @ Sensor Burnout	32 mA
Output @ Sensor Shorted	0.2 mA
Measurement Error	0.2% of span or 0.2°C
Non-linearity Error	Within measurement error
Temperature Drift	0.01% of span for 1°C
Max. Process Pressure	360 psi (2500 kPa or 25 bar)
Power Supply	10...32 VDC
Maximum Line Load	750 Ω at 24 V / 20 mA
Ambient Temperature	-40...85°C
Case Material	Stainless steel
Electrical Connection	Connector DIN 43650
Mounting Thread	Various - see the order code
Stem Diameter	6 or 8 mm
Stem Length	20 to 300 mm, step of 5 mm
Case/Terminal Protection	IP65
EM Compatibility	According to EN 61326

ORDER CODE

Model: **TMT45** - [] [] [] [] - []

Temperature Range

- 50...+50°C
- 0...50°C
- 0...100°C
- 50...100°C
- 0...150°C
- 0...200°C
- Other (please specify $\Delta T \geq 50^\circ C$)

A
B
C
D
E
F
X

Stem Diameter

- 6 mm
- 8 mm

6
8

Mounting Thread

- 1/2" NPT
- 3/8" NPT
- G1/2"
- G3/8"
- M16x1.5
- M18x1.5
- M20x1.5
- Other (please specify)

A
B
C
D
E
F
H
X

Sheath Material

- SS304
- SS316

4
6

Stem Length

20 to 300 with 5mm step (please specify in mm)

(Local indicator must be ordered separately)

DIMENSIONS (mm)

