SERIES: TMT47

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 RTD Sensor

PROGRAMABLE

With local indicator; available as option

INTRODUCTION

The new compact TMT47 Programmable 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. These transmitters maybe configured by the user for a specific span, greater than 50°C.

Being very compact and definitely an economical approach to temperature measurement are other advantages of the TMT47. Utilizing the TMT47 eliminates the use of stainless steel probe heads in food and sanitary industries, and thanks to their small dimensions, these programmable temperature probes are applicable in cars, trains, construction machineries and other equipments, where space is limited.

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)
Range	Programmable -50°C to 200°C various ranges
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	800 Ω at 24 V / 20 mA
Interface Type	RS232, requiring special cable
Sensor Failure	<3.9 or >20.2 mA programable
Ambient Temperature	-30...80°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
Dimensions	ø30 x 66 mm maximum (without stem and connector)

ORDER CODE

Model: **TMT47**–☐☐☐–☐

Stem Diameter
6 mm → 6
8 mm → 8

Mounting Thread
1/2" NPT → A
3/8" NPT → B
G1/2" → C
G3/8" → D
M16x1.5 → E
M18x1.5 → F
M20x1.5 → H
Other (please specify) → X

Sheath Material
SS304 → 4
SS316 → 6

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

Please specify the range, if you require that the transmitter to be configured prior to shipping.

(The followings must be ordered separately)

- **DIS100 Local Indicator**
- **Connection Cable CB11U**

The programming software will be offered free-of-charge, when ordering the CB11U cable.