Endress+Hauser
People for Process Automation

TMT72 iTEMP Programmable Temperature Transmitters with HART

Part No. TMT72-4LR3/142

Part No. TMT72-6XR7/101

Part No. TMT72-EQ74/115

Part No. TMT72-4H19/139

Download the free Endress+Hauser SmartBlue Mobile App for phone or tablet:

Download on the App Store | GET IT ON Google Play

Features

- Sensor Types:
  - Thermocouple Types J, K, T, E, N, R, S, U, B, C, D, L, A
  - RTD Types Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Cu50, Cu100 (2, 3, or 4-wire)
  - Linear Resistance 10 to 2000 Ohms (2, 3, or 4-wire)
  - Millivolts -20 to +100 mV
- Measuring range configurable within the full range of the sensor type selected
- Selectable units of °F, °C, K, Ohm and mV
- Choose from internal, external, or user defined fixed value reference junction compensation for thermocouple inputs
- Wire resistance compensation for 2-wire RTDs
- Head transmitter is powered by 10–36 VDC, and DIN rail transmitter is powered by 11–36 VDC
- Output is linearized 2-wire current loop and can be configured for 4–20 mA or 20–4 mA with HART Communications
- Selectable up scale or down scale signal for sensor lead break or short circuit detection (NAMUR NE 43 fault response)
- Adjustable digital filter time constant to compensate for undesirable input fluctuations
- Mounts in DIN Form B sensor head or on 35mm DIN rail in a control panel
- 2 kVAC isolation between input and output
- Screw or push-in terminals
- Compatible with Endress+Hauser TID10-1009/0 display
- Configured and monitored using HART communications or with its Bluetooth wireless interface on Android and iOS devices via the free Endress+Hauser SmartBlue App

HART COMMUNICATION PROTOCOL

For a variety of cable options see our website www.AutomationDirect.com

Endress+Hauser TMT72 Series iTEMP Programmable Temperature Transmitter Selection

Part Number	Transmitter Type	Input	Output	Operating Voltage	Connection Head Mount	Electrical Connection	Weight (lb)	Price
TMT72-4LR3/142	Non-isolated	1-channel, RTD/ thermocouple/ bipolar voltage/ potentiometer, deg F or deg C	1-channel, 4–20 mA or 20–4 mA / HART	10–36 VDC	DIN Form B	Screw terminals	0.50	$692.00
TMT72-6XR7/101						Push-in terminals	0.24	$692.00
TMT72-4H19/139				11–36 VDC	35mm DIN rail	Screw terminals	0.50	$712.00
TMT72-EQ74/115						Push-in terminals	0.50	$712.00

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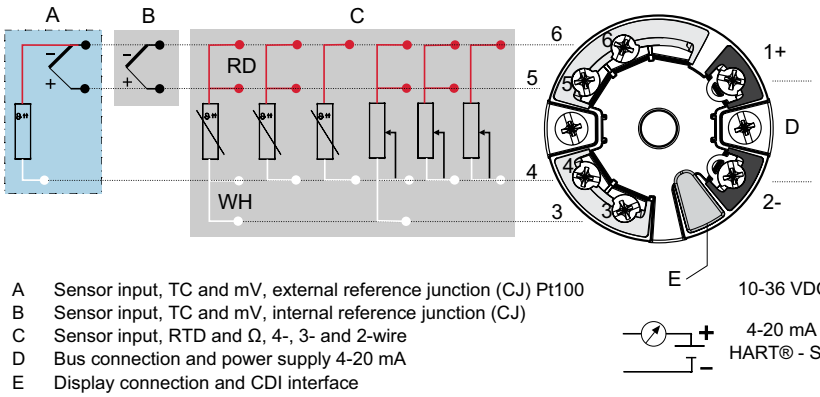
Endress+Hauser TMT72 Series iTEMP Programmable Temperature Transmitter Information				
Part Number	***Drawing Links***	***Manufacturer Tech Specs***	***Manufacturer Quick Start***	***Manufacturer Manual***
TMT72-4LR3/142	PDF	PDF	PDF	PDF
TMT72-6XR7/101	PDF			
TMT72-4H19/139	PDF			
TMT72-EQ74/115	PDF			

For complete technical information and installation see Manufacturer Tech Specs and Manual links.

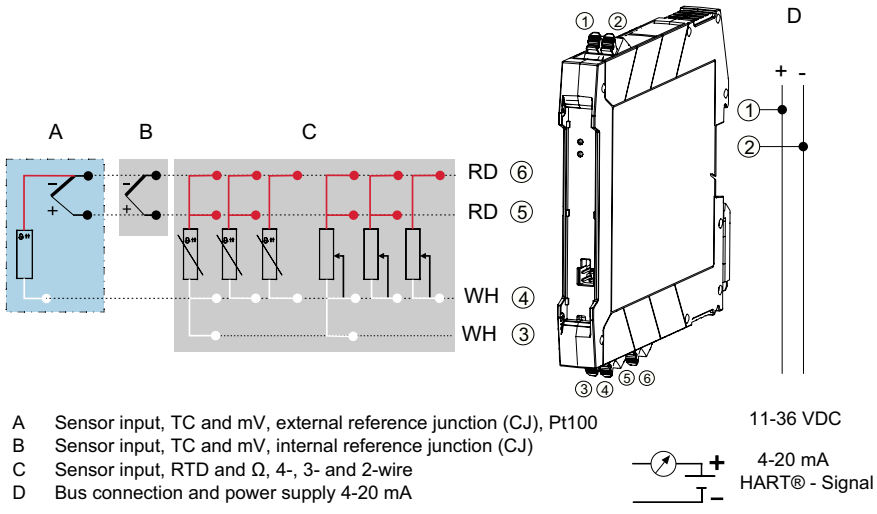
TMT72 shown with optional TID10-1009/0 display

Head Transmitter Wiring



A Sensor input, TC and mV, external reference junction (CJ) Pt100
B Sensor input, TC and mV, internal reference junction (CJ)
C Sensor input, RTD and Ω, 4-, 3- and 2-wire
D Bus connection and power supply 4-20 mA
E Display connection and CDI interface

DIN Rail Wiring Information



A Sensor input, TC and mV, external reference junction (CJ), Pt100
B Sensor input, TC and mV, internal reference junction (CJ)
C Sensor input, RTD and Ω, 4-, 3- and 2-wire
D Bus connection and power supply 4-20 mA

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TMT36 & TMT72 iTEMP Programmable Temperature Transmitters Accessory

Part No. TID10-1009/0

The TID10-1009/0 is a convenient, easy to use display accessory for the Endress+Hauser TMT36 and TMT72 connection head temperature transmitters. Simply clip the display on the TMT36 or TMT72 transmitter to get a digital readout of the transmitter scaled output. Transmitter configuration parameters are automatically read by the TID10, so no additional configuration is required. A DIP switch setting is available to rotate the display reading 180 degrees.

CE

For a variety of cable options see our website www.AutomationDirect.com

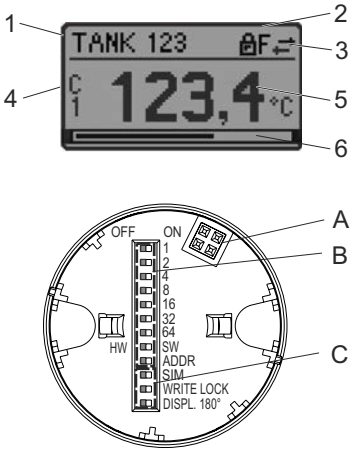
Endress+Hauser TMT36 & TMT72 Programmable Temperature Transmitter Accessory			
Part Number	***Description***	***Weight (lb)***	***Price***
TID10-1009/0	Endress+Hauser display, polycarbonate. For use with Endress+Hauser TMT36 and TMT72 programmable temperature transmitters.	0.36	$133.00

Display Information		
Part Number	***Drawing Links***	***Manufacturer Manual***
TID10-1009/0	PDF	PDF

For complete technical information and installation see Manufacturer Manual link.

TID10-1009/0 shown mounted on a TMT72 transmitter.

Display Information



Pos.	Short description
1	Displays the TAG
2	Configuration locked
3	'Communication' symbol
4	Channel display C1, C2 (P1, S1)
5	Measured value and channel display or warning/ error message
6	Bargraph display (for HART® head transmitter)
A	Connection to head transmitter
B	DIP switch address setup
C	DIP switch device setup

DIP-Switches Default = OFF