

# 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](#)

## 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
- 2kVAC 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



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



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## 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      |
|--------------------------------|------------------|------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|-----------------------|-----------------------|-------------|------------|
| <a href="#">TMT72-4LR3/142</a> | Non-isolated     | 1-channel, RTD/<br>thermocouple/<br>bipolar voltage/<br>potentiometer,<br>deg F or deg C | 1-channel,<br>4-20 mA or<br>20-4 mA / HART | 10-36 VDC         | DIN Form B            | Screw terminals       | 0.50        | \$,06n!#:  |
| <a href="#">TMT72-6XR7/101</a> |                  |                                                                                          |                                            |                   |                       | Push-in terminals     | 0.51        | \$,;06n!l: |
| <a href="#">TMT72-4H19/139</a> |                  |                                                                                          |                                            | 11-36 VDC         | 35mm DIN rail         | Screw terminals       | 0.50        | \$,06n!?:  |
| <a href="#">TMT72-EQ74/115</a> |                  |                                                                                          |                                            |                   |                       | Push-in terminals     | 0.50        | \$,06n!_:  |

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## Endress+Hauser TMT72 Series iTEMP Programmable Temperature Transmitter Information

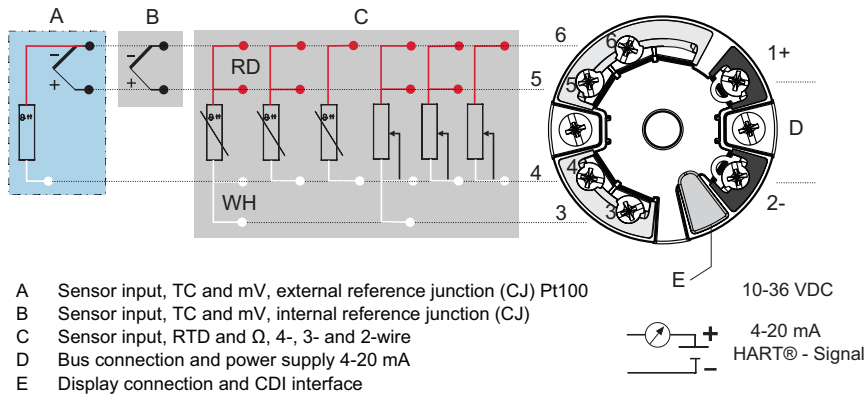
| Part Number                    | Drawing Links       | Manufacturer Tech Specs | Manufacturer Quick Start | Manufacturer Manual |
|--------------------------------|---------------------|-------------------------|--------------------------|---------------------|
| <a href="#">TMT72-4LR3/142</a> | <a href="#">PDF</a> | <a href="#">PDF</a>     | <a href="#">PDF</a>      | <a href="#">PDF</a> |
| <a href="#">TMT72-6XR7/101</a> | <a href="#">PDF</a> |                         |                          |                     |
| <a href="#">TMT72-4H19/139</a> | <a href="#">PDF</a> |                         |                          |                     |
| <a href="#">TMT72-EQ74/115</a> | <a href="#">PDF</a> |                         |                          |                     |

For complete technical information and installation see [Manufacturer Tech Specs](#) and [Manual links](#).

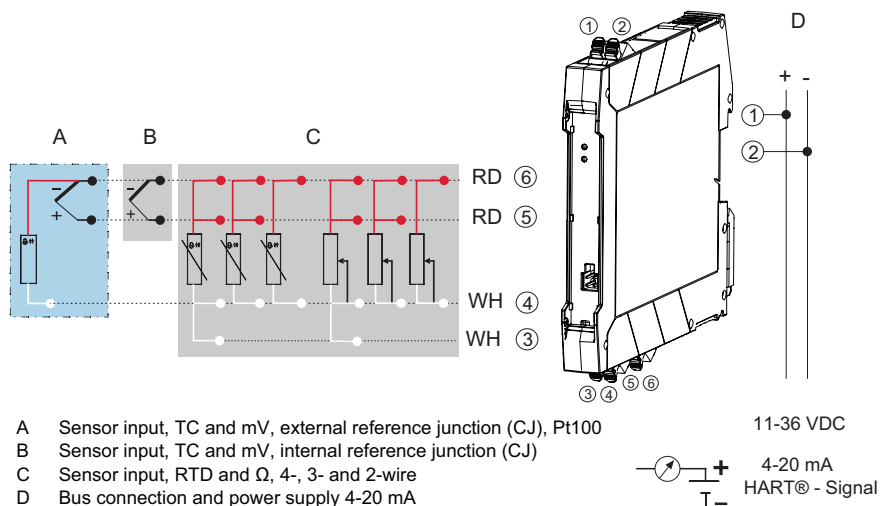


TMT72 shown with optional [TID10-1009/0](#) display

## Head Transmitter Wiring



## DIN Rail Wiring Information



# 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.

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### Endress+Hauser TMT36 & TMT72 Programmable Temperature Transmitter Accessory

| Part Number                  | Description                                                                                                               | Weight (lb) | Price     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <a href="#">TID10-1009/0</a> | Endress+Hauser display, polycarbonate. For use with Endress+Hauser TMT36 and TMT72 programmable temperature transmitters. | 0.36        | \$,06n[e: |

### Display Information

| Part Number                  | Drawing Links       | Manufacturer Manual |
|------------------------------|---------------------|---------------------|
| <a href="#">TID10-1009/0</a> | <a href="#">PDF</a> | <a href="#">PDF</a> |

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