Important Notice

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voltage may be present on the connection terminals or the probe itself. in a high voltage environment and a fault or installation error occurs, high Electrical shock could cause death or serious injury. If the sensor is installed

transmitters see www.endress.com notes are read, understood and followed. For Endress+Hauser temperature if the operating instructions of the used transmitters and all included safety Safe and secure operation of the temperature sensor can only be guaranteed

Su rorrect use

the operating instructions must be followed! of the unit. The installation conditions and connection values indicated in The manufacturer cannot be held responsible for damage caused by misuse

Installation Guidelines and Safety instructions

2. Avoid any spark due to impact, friction and installation. Anti-sparking 1. Install the unit according to the relevant NEC Code and local regulations.

- 3. The temperature sensor should be connected to the power supply or other wrenches should be utilized.
- conductors must be used. Only use approved wire entries. 4. For ambient temperature higher than 158 F, suitable cables, conduit and external circuit using the appropriate cable glands and wire entries.
- 5. When utilized in dust atmospheres, the connection between the housing,
- be respected. Protection. Liquid/gas sealants should be used. Local regulations need to fittings and thermowell should provide a minimum degree of Ingress

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is not hazardous. Do not disconnect equipment unless power has been switched off or the area

responsibility. sealing rings are not supplied with the sensors. These are the customer's The accessories for pipe connections and the appropriate gaskets and

Endress + Hauser People for Process Automation

Endress+Hauser Operations App

- Smart phone/tablet:
- www.endress.com/deviceviewer
- Internet:
- Available for all device versions via:

Detailed technical information can be found in the additional documentation.

information.

Quick installation instructions and safety

RTD thermometer for hygienic and aseptic applications

Installation Instructions **iTHERM TM402. TM412** Imperial Hygienic Thermometer, **US Style**

Solutions



71371448

For further information regarding connections, please refer to the corresponding sealing and the applicable torques must be selected by the user. Depending on temperature and pressure operating conditions, the gaskets, the

Installation and operation .spitandards.

Ň CE Serial number www.endress.com/deviceviewer Endress+Hauser Operations App App Store

patent. Please note that Endress Hauser reserves the right to change and/or improve the product design and

herein is NOT a guarantee of satisfactory results. Specifically, this information is neither a warranty nor guarantee, expressed or implied, regarding performance; merchantability, funess, or other matter with respect

Though the information provided herein is believed to be accurate, be advised that the information contained

seriously injured, to safety risks or to the destruction of the device if they are not

Cautions draw attention to activities or procedures that can lead to persons being

on operation or trigger an unforeseen device reaction if they are not carried out

Notes draw attention to activities or procedures that can have a direct influence

and conditions for returning devices provided on the Endress+Hauser website at

certain procedures when handling products that are in contact with the medium.

calibration, or if the wrong measuring device has been delivered or ordered. Legal

connection schematics. Procedures indicated in these instructions must be followed.

must make sure that the measurement system has been correctly wired to the

personnel who are authorized to do so by the plant operator. The plant operator

installed incorrectly or misused, certain application dangers can occur. Installation,

wiring and maintenance of the unit must only be completed by trained, skilled

complies with the satety requirements of the local guidelines. However, it it is The unit is constructed using the most up to date production equipment and

specifications require Endress+Hauser, as an ISO-certified company, to follow

The measuring device must be returned if it is need of repair or a factory $\$

To ensure safe, swift and professional device returns, please refer to the procedure

to the products; and recommendation for the use of the product/process information in conflict with any

Endress+Hauser

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www.addresses.endress.com



carried out properly.

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properly.

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Satety pictograms and symbols

lisites.com/support/return-material

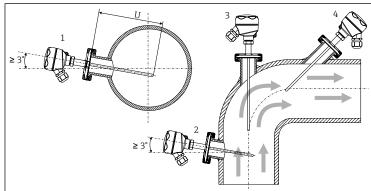






Installation

Installation locations



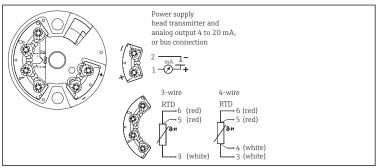
1, 2:Perpendicular to flow direction, installed at a minimum angle of 3° to ensure selfdraining

- 3: On elbows
- 4: Inclined installation in pipes with a small nominal diameter
- U: Immersion length

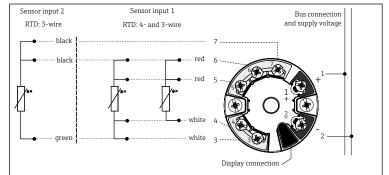
For installation proceed as follows:

- 1. Make sure that the hygienic process fitting and the clamp assembly match the maximum specified process pressure.
- 2. Install and tighten the RTD sensor before applying process pressure.

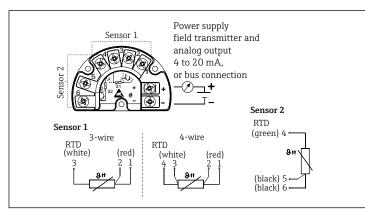
Electrical connection-wiring diagrams Head mounted transmitter iTEMP TMT18x (single input)



Head mounted transmitter iTEMP TMT8x (dual input)

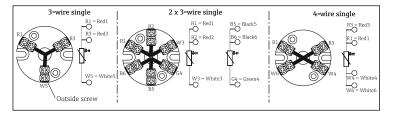


Head mounted field transmitter iTEMP TMT162 (dual input)



Terminal block mounted

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The blocks and transmitters are shown as they will sit inside the heads in reference to the conduit opening. ALWAYS terminate leads to the outside screw!

Technical Data Dimensions Performance Characteristics See technical Information: www.endress.com