

## U.S. Style RTD-Assembly TH17



More information and current pricing:

[www.de.endress.com/TH17](http://www.de.endress.com/TH17)

### Benefits:

- Meets 3-A sanitary standards
- Meets PMO requirements by US FDA for dairies
- Simplified model structure: Competitively priced, offers great value. Easy to order and reorder. A single model number includes sensor and transmitter assembly for a complete point solution
- One source shopping for temperature measurement solutions. World class transmitter with integrated sensor offering.
- Improved galvanic isolation on most devices (2 kV)
- All iTEMP transmitters provide long term stability  $\leq 0.05$  % per year

### Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class 1/5 DIN
- **Response time** 63% rt = 4 s
- **Max. process pressure (static)** at 20 °C: 100 bar (1.450 psi)
- **Operating temperature range** PT 100: -200 °C ... 200 °C (-328 °F ... 392 °F)
- **Max. immersion length on request** up to 4.877 mm (192,00")

**Field of application:** Typical processes in the food & pharmaceutical industry demand special functions such as fast response times and high accuracy of temperature measurement. With a straight or reduced tip form and a combined insert with the neck tube, it is possible to realize best thermal response times. An optional head transmitter, with all common communication protocols, makes the device ready to use with enhanced measurement accuracy and reliability.

### Features and specifications

Thermometer

Measuring principle

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**Thermometer****Characteristic / Application**

US style  
modular temperature assembly  
hygienic design  
hygienic process connection  
with extension

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**Thermowell / protection tube**

without (not intended to be used with thermowell)

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**Insert / probe**

mineral insulated (MI), flexible  
PTFE-insulated, rigid

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**Outer diameter protection tube / Insert**

1/4" (6,35 mm)  
3/8" (9,53 mm)

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**Max. immersion length on request**

up to 4.877 mm (192,00")

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**Material protection tube/ thermowell**

1.4404 (316L)

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**Process connection**

hygienic:  
clamp connections TRI-Clamp / Micro-Clamp

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**Tip shape**

straight  
reduced

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**Surface roughness Ra**

0,8 µm (32 µin.)

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**Operating temperature range**

PT 100:  
-200 °C ... 200 °C  
(-328 °F ... 392 °F)

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## Thermometer

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### Max. process pressure (static)

at 20 °C: 100 bar (1.450 psi)

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### Accuracy

class A acc. to IEC 60751

class 1/5 DIN

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### Response time

63% rt = 4 s

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### Integration head transmitter

yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)

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### Ex - approvals

FM IS

CSA IS

FM/CSA IS

CSA

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### Certification

FDA

3A

SIL (transmitter only)

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