

# Easytemp TMR35

## Hygienic compact thermometer

Compact, fast and precise for the measurement of process temperatures in hygienic applications



from **€83.00**

Price as of 29.09.2022

More information and current pricing:

[www.be.endress.com/TMR35](http://www.be.endress.com/TMR35)

### Benefits:

- Small, compact design made entirely of stainless steel
- Extremely short response times
- Highly accurate even with short insertion lengths
- 4-wire, Pt100 or PC-programmable transmitter with 4 to 20 mA output
- Configuration and visualization with ReadWin® 2000 PC operating software, which is free of charge
- Breakdown information in event of sensor break or sensor short-circuit, adjustable as per NAMUR NE43
- Hygienic compatible design with 3-A marking and EHEDG certification; Marine approval

### Specs at a glance

- **Accuracy** class A acc. to IEC 60751
- **Response time**  $t_{50} = 1$  s  $t_{90} = 2$  s
- **Max. process pressure (static)** at 20 °C: 100 bar (1.450 psi)
- **Operating temperature range** PT 100: -50 °C ...200 °C (-58 °F ...392 °F)
- **Max. immersion length on request** up to 600,00 mm (23,62")

**Field of application:** With cost efficiency, optimal use of space, reliable operation, easy commissioning and hygienic design the TMR35 fulfills all the requirements in the Food & Beverage as well as in the Life Science industries. A variety of hygienic process connections leads to a high flexibility.

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## Features and specifications

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### Thermometer

**Measuring principle**

Resistance Temperature Detector

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**Characteristic / Application**

metric style  
compact temperature probe  
fast response time  
hygienic design  
hygienic process connection  
with or without neck

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**Thermowell / protection tube**

without (not intended to be used with thermowell)  
to be used with thermowell  
incl. T-/ellbow thermowell

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**Insert / probe**

pipe version, isolated wires, not flexible

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**Outer diameter protection tube / Insert**

3,0 mm (0,12")  
6,0 mm (0,24")

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**Max. immersion length on request**

up to 600,00 mm (23,62")

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**Material protection tube/ thermowell**

1.4404 (316L)

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**Process connection**

hygienic:  
conical sealing system G1/2" (metal)  
clamp connections acc. to ISO 2852 / DIN 32676  
screwed pipe joint acc. to DIN 11851  
Varivent

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## Thermometer

**Tip shape**

straight

**Surface roughness Ra**

0,4 µm (16 µin.)

0,8 µm (32 µin.)

**Operating temperature range**

PT 100:

-50 °C ...200 °C

(-58 °F ...392 °F)

**Max. process pressure (static)**

at 20 °C: 100 bar (1.450 psi)

**Accuracy**

class A acc. to IEC 60751

**Response time**t<sub>50</sub> = 1 st<sub>90</sub> = 2 s**Integration head transmitter**

no (4...20mA Signal)

**Certification**

3A

Marine approval

UL 3111-1

EAC

More information [www.be.endress.com/TMR35](http://www.be.endress.com/TMR35)