

# TMR35

## Compact thermometer

Metric RTD 4-20 mA compact thermometer for hygienic applications



### 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**  $t_{50} = 1 \text{ s}$   $t_{90} = 2 \text{ s}$
- **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.

### Features and specifications

from **€98.00**

Price as of 31.08.2025

More information and current pricing:

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

## Thermometer

### Measuring principle

Resistance Temperature Detector

### Characteristic / Application

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

### Thermowell / protection tube

without (not intended to be used with thermowell)  
to be used with thermowell  
incl. Tee-/elbow thermowell

### Insert / probe

pipe version, isolated wires, not flexible

### Outer diameter protection tube / Insert

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

### Max. immersion length on request

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

### Material protection tube/ thermowell

1.4404 (316L)

### 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

### Tip shape

straight

---

## Thermometer

---

### 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

t50 = 1 s

t90 = 2 s

---

### Integration head transmitter

no (4...20mA Signal)

---

### Certification

3A

Marine approval

UL 3111-1

---

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