

# Easytemp TMR31

## Compact thermometer

Compact, fast and precise for the measurement of process temperatures in common industries



from **€72.00**

Price as of 30.11.2021

More information and current pricing:

[www.casc.endress.com/TMR31](http://www.casc.endress.com/TMR31)

### 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<sup>®</sup> 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
- Marine approval

### Specs at a glance

- **Accuracy** class A acc. to IEC 60751
- **Response time** t50 = 1 s t90 = 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 installation and commissioning the TMR31 fulfills the requirements of modern process measurement technology. Vibration-proof integrated thin-film sensors guarantee highest operational safety at the fastest response times.

### Features and specifications

## Thermometer

### Measuring principle

Resistance Temperature Detector

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### Characteristic / Application

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

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### Thermowell / protection tube

without (not intended to use with thermowell)

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### Insert / probe

pipe version, isolated wires, not flexible

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### Outer diameter protection tube / Insert

4,00 mm (0,16")

6,00 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

male thread:

G1/4"

G1/2"

NPT1/4"

NPT1/2"

M14x1.5

M18x1.5

BSPT R1/2"

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### Tip shape

straight

## Thermometer

**Surface roughness Ra**

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**

Marine approval

UL 3111-1

EAC

More information [www.casc.endress.com/TMR31](http://www.casc.endress.com/TMR31)