

# TW251

## Protection tube for temperature sensors

The protection tube with built-in compression fitting allows varying types of probes to be applied



More information and current pricing:

[www.endress.com/TW251](http://www.endress.com/TW251)

### Benefits:

- The compression fitting allows for the replacement of the faulty probes without having to suspend the process underway
- Different process connections can be selected as standard within the sales structure: Threaded (G ½", G ¼", NPT ½", ...); Weld-in (cylindrical, spheric)
- Sleeves for the compression fitting available in PTFE or SS 316
- The 3.1.B material certificate (according to standard EN 10204), is selectable directly from the sale structure of the product

### Specs at a glance

- **Max. process pressure (static)** 50 bar (725 psi)
- **Maximum standard immersion length** 4.000 mm (157,48")
- **Max. immersion length on request** 10.000 mm (393,7")

**Field of application:** This protection tube is well fitted with an integrated compression fitting, suitable for different industrial applications including even hygienic applications. By default, it is fitted onto pipes and vessels or tanks where attachment to the process can be threaded or welded. Due to its construction various types of temperature probes, such as compact thermometers as well as assemblies without a protection tube or cable probes, generally with an probe diameter of 6 mm, can be applied.

### Features and specifications

## Thermowell

**Measuring principle**

Fabricated Thermowell

**Characteristic / Application**

metric style

for probes with diameter 6 mm (0,24") and 9 mm (0,35")

threaded or welded process connection

**Head connection**

compression fitting

**Maximum standard immersion length**

4.000 mm (157,48")

**Max. immersion length on request**

10.000 mm (393,7")

**Process connection**

thread:

G1/4"

G1/2"

1/2" NPT

weld-in adapter cylindrical

weld-in adapter spherical

**Thermowell root diameter**

6 mm (0,24")

9 mm (0,35")

## Thermowell

**Medium contact material**

1.4404 (316L)

**Wetted part finishing (Ra)**< 0.4  $\mu\text{m}$  (15.75  $\mu\text{in}$ )< 0.8  $\mu\text{m}$  (31.50  $\mu\text{in}$ )< 1.2  $\mu\text{m}$  (47.25  $\mu\text{in}$ )**Tip shape**

straight

reduced

tapered

**Temperature range**-200...650  $^{\circ}\text{C}$  (-328...1.202  $^{\circ}\text{F}$ )**Max. process pressure (static)**

50 bar (725 psi)

**Max. process pressure at 400  $^{\circ}\text{C}$** 

depends on process connection

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