

## TWF11

### Protection tube for high temperature assemblies

For steel treatment, concrete furnaces and primaries with very high process temperatures



#### Benefits:

- Long lifetime by usage of innovative protection tube materials with increased wear and chemical resistance
- Long term stable measurement due to sensor protection with non-porous materials
- Replaceable parts

#### Specs at a glance

- **Max. process pressure (static)** 1 bar (15 psi)
- **Maximum standard immersion length** 1.500 mm (59,06")
- **Max. immersion length on request** 4.000 mm (157,48")

More information and current pricing:

[www.casc.endress.com/TWF11](http://www.casc.endress.com/TWF11)

**Field of application:** Measuring points with extremely high process temperatures require these special ceramic protection tubes. Made from special materials, it serves as protection from mechanical and chemical damages in the process and increases the life span of the used sensors. This leads to: Cost savings for maintenance of the measuring point, quality improvements of the products and increased plant safety. It is designed as replacement part for the high temperature TC thermometer TAF11 by Endress+Hauser.

### Features and specifications

Thermowell

#### Measuring principle

Fabricated Thermowell

## Thermowell

**Characteristic / Application**

metric style  
Fabricated from segments  
ceramic protection tube  
process connection as compression  
fitting  
Replacement part for TAF11

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**Head connection**

M24 x 1,5  
groove for DIN A Head

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**Maximum standard immersion length**

1.500 mm (59,06")

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**Max. immersion length on request**

4.000 mm (157,48")

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**Process connection**

compression fitting:  
G3/4"  
G1"  
G1 1/2"  
adjustable Flange

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**Thermowell root diameter**

14,0 mm (0,55")  
16,0 mm (0,59")  
17,0 mm (0,68")  
22,0 mm (0,87")  
24,0 mm (0,94")  
26,6 mm (1,05")

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**Medium contact material**

Ceramic (C610)  
silicon nitride ceramic (SiN)  
sintered silicon carbide (SiC)

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Thermowell

**Tip shape**

straight

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**Temperature range**

-50...1650 °C (-58...3.002 °F)

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**Max. process pressure (static)**

1 bar (15 psi)

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