

## TWF16

### Protection tube for high temperature assemblies

For processes with high process temperatures like cement production, steel treatment, incinerators



#### 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** 2.200 mm (86,61")
- **Max. immersion length on request** 4.525 mm (178,15")

More information and current pricing:

[www.endress.com/TWF16](http://www.endress.com/TWF16)

**Field of application:** Measuring points with extremely high process temperatures require these special ceramic or metal protection tubes made from special materials. They protect 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 specially designed as replacement part for the high temperature TC thermometer TAF16 by Endress+Hauser.

#### Features and specifications

Thermowell

**Measuring principle**

Fabricated Thermowell

## Thermowell

**Characteristic / Application**

metric style  
Fabricated from segments  
welded protection tube  
ceramic protection tube  
process connection as compression  
fitting  
Replacement part for TAF16

**Head connection**

M24 x 1,5  
groove for DIN A Head

**Maximum standard immersion length**

2.200 mm (86,61")

**Max. immersion length on request**

4.525 mm (178,15")

**Process connection**

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

**Thermowell root diameter**

14,0 mm (0,55")  
15,0 mm (0,59")  
17,2 mm (0,68")  
18,0 mm (0,71")  
21,3 mm (0,84")  
22,0 mm (0,87")  
26,7 mm (1,05")  
28,0 mm (1,10")

## Thermowell

**Medium contact material**

1.4401 (316)  
1.4749 (~446)  
1.4841 (310)  
Alloy 600 (2.4816)  
Alloy 601 (2.4851)  
Incoloy 800HT (1.4959)  
Kanthal AF  
Kanthal Super  
NiCo  
Siliciumnitrid(SiN)

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**Tip shape**

straight

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**Temperature range**

-200...1700 °C (-328...3.092 °F)

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**Max. process pressure (static)**

1 bar (15 psi)

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