

# TAF12D

## High temperature TC thermometer

Applicable for ceramic baking ovens, brickworks, porcelain production and glass industries



More information and current pricing:

[www.ca.endress.com/TAF12D](http://www.ca.endress.com/TAF12D)

### Benefits:

- Long lifetime by usage of innovative thermowell materials with increased wear and chemical resistance
- Long term stable measurement due to sensor protection with non-porous materials
- Flexible product selection by modular design
- Optimized life cycle costs by means of replaceable spare parts

### Specs at a glance

- **Accuracy** class 2 acc. to IEC 60584
- **Max. process pressure (static)** at 20 °C: 1 bar (15 psi)
- **Operating temperature range** Type S: 0 C ...1.600 C (32 F ...2.912 F) Type R: 0 C ...1.600 C (32 F ...2.912 F) Type B: 600 C ...1.700 C (1.112 F ...3.092 F)
- **Max. immersion length on request** up to 3.500,00 mm (137,80")

**Field of application:** Measuring points with extremely high process temperatures require these special thermometers with ceramic thermowells and thermocouples made from special metals, such as platinum and rhodium. The thermowell and the internal sheath made from ceramic materials protects from mechanical and chemical damages in the process and increases the life span of the sensors. This leads to: Cost savings for maintenance of the measuring point, quality improvements of the products and increased plant safety.

### Features and specifications

---

**Thermometer****Measuring principle**Thermocouple

---

**Characteristic / Application**

metric style  
modular temperature assembly  
high temperature probe (furnace)  
incl. double ceramic thermowell

---

**Thermowell / protection tube**ceramic protection tube and inner tube

---

**Insert / probe**ceramic capillary, rigid

---

**Outer diameter protection tube / Insert**

14,0 mm (0,55")

15,0 mm (0,59")

---

**Max. immersion length on request**up to 3.500,00 mm (137,80")

---

**Material protection tube/ thermowell**Ceramic (C610/C799)

---

**Process connection**

compression fitting:

G3/4"

G1"

G1 1/2"

adjustable Flange

---

**Tip shape**straight

---

## Thermometer

**Operating temperature range**

Type S:

0 C ...1.600 C

(32 F ...2.912 F)

Type R:

0 C ...1.600 C

(32 F ...2.912 F)

Type B:

600 C ...1.700 C

(1.112 F ...3.092 F)

**Max. process pressure (static)**

at 20 °C: 1 bar (15 psi)

**Accuracy**

class 2 acc. to IEC 60584

**Integration head transmitter**yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)**Certification**

SIL (transmitter only)

More information [www.ca.endress.com/TAF12D](http://www.ca.endress.com/TAF12D)