

# iTHERM FlameLine TAF12D

## High temperature thermometer

Metric TC thermometer with dual ceramic thermowell for high-temperature applications



More information and current pricing:

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

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### Max. process pressure (static)

at 20 °C: 1 bar (15 psi)

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### Accuracy

class 2 acc. to IEC 60584

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### Integration head transmitter

yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)

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### Certification

SIL (transmitter only)

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