

iTHERM FlameLine TAF12S

High temperature thermometer

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



More information and current pricing:

www.endress.com/TAF12S

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 2.500,00 mm (98,43")

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 made from ceramic materials 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.

Features and specifications

Thermometer**Measuring principle**Thermocouple

Characteristic / Application

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

Thermowell / protection tubeceramic protection tube

Insert / probeceramic capillary, rigid

Outer diameter protection tube / Insert9,0 mm (0,35")

Max. immersion length on requestup to 2.500,00 mm (98,43")

Material protection tube/ thermowellCeramic (C610/C799)

Process connection

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

Tip shapestraight

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.endress.com/TAF12S