

TAF12D

High temperature TC thermometer

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



More information and current pricing:

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)

Thermometer

Process connection

compression fitting:

G3/4"

G1"

G1 1/2"

adjustable Flange

Tip shapestraight

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

Thermometer

Integration head transmitter

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

Certification

SIL (transmitter only)

More information www.endress.com/TAF12D