

iTHERM FlameLine TAF12T

High temperature thermometer

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



More information and current pricing:

www.endress.com/TAF12T

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 thermometers with ceramic thermowells and special metal thermocouples, such as platinum and rhodium. The thermowell as well as the intermediate and internal sheath of 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 (furnace)
ncl. triple ceramic thermowell

Thermowell / protection tube

ceramic protection tube and 2x inner tube

Insert / probe

ceramic capillary, rigid

Outer diameter protection tube / Insert

24,0 mm (0,94")
26,0 mm (1,02")

Max. immersion length on request

up to 3.500,00 mm (137,80")

Material protection tube/ thermowell

Ceramic (C530/C610/C799)

Process connection

compression fitting:
G1 1/2"

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)

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