

TC-Assembly S.A.Style TLSC1



More information and current pricing:

www.fi.endress.com/TLSC1

Benefits:

- Various types of thermocouples: Type J (Fe-CuNi), type K (NiCr-Ni), type N (NiCrSi-NiSi) or type T (Cu-CuNi)
- Sheath material ANSI 316SS or 310SS, INCONEL 600
- Customized immersion length
- Electrical connection by means of a ceramic terminal block or head mounted transmitter with universal inputs, galvanically isolated and various output signals: Analog output 4...20 mA, HART®, PROFIBUS® PA, FOUNDATION Fieldbus™

Specs at a glance

- **Accuracy** class 1 acc. to IEC 60584
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 10 bar (150 psi) without thermowell
- **Operating temperature range** Type J: -210 ...760 °C (-346 ...1.400 °F) Type K: -270 ...1.100 °C (-454 ...2.012 °F) Type N: -270 ...1.100 °C (-454 ...2.012 °F) Type T: -270 ...400 °C (-454 ...725 °F)
- **Max. immersion length on request** up to 90.000 mm (3.543,31")

Field of application: The thermometer is mainly used in the chemical industry but also finds its use in other branches. The device with head transmitter is a complete unit ready for use with enhanced measurement accuracy and reliability compared to directly wired sensors. To be installed into a thermowell or directly into the process by means of an adjustable or fixed fitting. It can also be used in all applications where small immersion lengths are needed.

Features and specifications

Thermometer

Measuring principle

Thermocouple

Characteristic / Application

S.A. Style

universal range of application

usable with or without a thermowell

Thermowell / protection tube

to use with or without thermowell (can be ordered separately)

Insert / probe

mineral insulated (MI), flexible

Max. immersion length on request

up to 90.000 mm (3.543,31")

Material protection tube/ thermowell

1.4401 (316)

1.4841 (310)

Alloy 600 (2.4816)

Optional coating

Not defined

Process connection

Fixed thread:

NPT 1/4"

NPT 1/2"

G1/2"

Adjustable compression fitting:

NPT 1/8"

NPT 1/4"

NPT 3/8"

NPT 1/2"

G1/2"

Tip shape

straight

Thermometer

Operating temperature range

Type J:

-210 ...760 °C

(-346 ...1.400 °F)

Type K:

-270 ...1.100 °C

(-454 ...2.012 °F)

Type N:

-270 ...1.100 °C

(-454 ...2.012 °F)

Type T:

-270 ...400 °C

(-454 ...725 °F)

Max. process pressure (static)

at 20 °C: 10 bar (150 psi) without thermowell

Accuracy

class 1 acc. to IEC 60584

Response time

depending on configuration

Integration head transmitter

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

Certification

EN10204 3.1 Material traceability

More information www.fi.endress.com/TLSC1