

## TC-Assembly S.A.Style TLSC1



More information and current pricing:

[www.it.endress.com/TLSC1](http://www.it.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

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## Thermometer

### Measuring principle

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#### Characteristic / Application

S.A. Style  
universal range of application  
usable with or without a thermowell

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#### Thermowell / protection tube

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

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#### Insert / probe

mineral insulated (MI), flexible

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#### Max. immersion length on request

up to 90.000 mm (3.543,31")

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#### Material protection tube/ thermowell

1.4401 (316)  
1.4841 (310)  
Alloy 600 (2.4816)

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#### Optional coating

Not defined

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#### 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"

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#### Tip shape

straight

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## 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)

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### Max. process pressure (static)

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

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### Accuracy

class 1 acc. to IEC 60584

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### Response time

depending on configuration

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### Integration head transmitter

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

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### Certification

EN10204 3.1 Material traceability

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