

## RTD-Assembly S.A. Style TLSR1



More information and current pricing:

[www.dk.endress.com/TLSR1](http://www.dk.endress.com/TLSR1)

### Benefits:

- Pt100 measuring element according to IEC 60751 with an accuracy Class A according to IEC 60751 and Band 5 (1/10 DIN)
- Sheath material SS316/L
- 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 A according to IEC 60751 Band 5 (1/10 DIN)
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 10 bar (150 psi) without thermowell
- **Operating temperature range** PT 100: -200 ...600 °C (-328 ...1.112 °F)
- **Max. immersion length on request** up to 2.000 mm (78,74")

**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

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**Thermometer****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 2.000 mm (78,74")

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**Material protection tube/ thermowell**

1.4401 (316)

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**Optional coating**

Not defined

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**Process connection**

Fixed thread:

NPT 1/4"

NPT 1/2"

G1/4"

G1/2"

Adjustable compression fitting:

NPT 1/8"

NPT 1/4"

NPT 3/8"

NPT 1/2"

G1/8"

G1/4"

G3/8"

G1/2"

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**Thermometer****Tip shape**

rounded  
flat

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**Operating temperature range**

PT 100:  
-200 ...600 °C  
(-328 ...1.112 °F)

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**Max. process pressure (static)**

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

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**Accuracy**

class A according to IEC 60751  
Band 5 (1/10 DIN)

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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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