RTD-Assembly S.A. Style 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®, 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**

More information and current pricing: www.endress.com/TLSR1
## Thermometer

### 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 2,000 mm (78.74")

### Material protection tube/ thermowell

- 1.4401 (316)

### Optional coating

- Not defined

### 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"
**Tip shape**
- rounded
- flat

**Operating temperature range**
PT 100:
-200 ... 600 °C
(-328 ... 1.112 °F)

**Max. process pressure (static)**
at 20 °C: 10 bar (150 psi) without thermowell

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

**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.endress.com/TLSR1](http://www.endress.com/TLSR1)