RTD-Assembly S.A. Style TLSR5

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 acc. 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. A variety of process connections and dimensions offer flexible application possibilities.

**Features and specifications**

| Thermometer | Measuring principle |
## Thermometer

### Characteristic / Application
- **S.A. Style**
- universal range of application
- usable with or without a thermowell
- spring loaded for use in thermowell
- Options available to construct removable inserts (spare parts)

### 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"
- Union nipple:
  - NPT 1/2"
  - G1/2"

### Tip shape
- rounded
- flat
### Thermometer

**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 acc. 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.us.endress.com/TLSR5](http://www.us.endress.com/TLSR5)