RTD Thermometer TST414

Benefits:
- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths
- High degree of insert compatibility and design as per DIN 43772
- Fast response time

Specs at a glance
- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** t50 = 10 s t90 = 30 s
- **Max. process pressure (static)** at 20 °C: 50 bar (725 psi)
- **Operating temperature range** PT 100: -50 °C ...400 °C (-58 °F ...752 °F)
- **Max. immersion length on request** up to 10.000,00 mm (393,70")

Field of application: The thermometer is mainly used in the chemical industry but also finds its use in other branches. Typical applications are processes where no strong flow is present. The device is supplied with a pocket which protects it from chemical corrosion and allows an easy replacement of the thermometer.

Features and specifications
**Thermometer**

**Characteristic / Application**
- metric style
- modular temperature assembly
- fast response time
- threaded process connection
- without neck
- incl. thermowell / protection tube (metal)
- mini-head

**Thermowell / protection tube**
- welded protection tube

**Insert / probe**
- mineral insulated (MI), flexible

**Outer diameter protection tube / Insert**
- 4.5 mm (0.18”)

**Max. immersion length on request**
- up to 10,000,00 mm (393.70”)

**Material protection tube/ thermowell**
- 1.4571 (316Ti)

**Process connection**
- male thread:
  - G1/2"

**Tip shape**
- straight

**Surface roughness Ra**
- 1.6 μm (63.0 μin.)

**Operating temperature range**
- PT 100:
  - -50 °C ... 400 °C
  - (-58 °F ... 752 °F)
## Thermometer

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. process pressure (static)</strong></td>
<td>at 20 °C: 50 bar (725 psi)</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>class A acc. to IEC 60751</td>
</tr>
<tr>
<td></td>
<td>class B acc. to IEC 60751</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>t50 = 10 s</td>
</tr>
<tr>
<td></td>
<td>t90 = 30 s</td>
</tr>
<tr>
<td><strong>Integration head transmitter</strong></td>
<td>no</td>
</tr>
</tbody>
</table>

More information [www.us.endress.com/TST414](http://www.us.endress.com/TST414)