RTD Thermometer TMT142R

Benefits:
- HART® protocol for operating the device on site using handheld terminal (DXR375) or remotely via the PC
- Illuminated display, rotatable
- Single Pt100 with 3 or 4 wires connection
- Undervoltage detection responds immediately, output of falsified measured values is prevented
- Highly accurate in entire operating temperature range
- Approvals: ATEX (EEx i.a., EEx d and dust ignition-proof), CSA (IS, NI, XP and DIP)
- Output simulation

Specs at a glance
- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** depending on configuration t50 = 3 s t90 = 7 s
- **Max. process pressure (static)** Depending on thermowell
- **Operating temperature range** PT 100: -200 °C ...600 °C (-328 °F ...1.112 °F)
- **Max. immersion length on request** up to 30,000,00 mm (1.181,10")

Field of application: The robust thermometer is designed for use in demanding and safety relevant applications e.g. in the Chemical, Oil & Gas and Energy industry. The thermometer fulfills the corresponding safety requirements due to various certificates and tests. The use of a transmitter leads to higher accuracy and reliability in comparison to directly wired sensors.

Features and specifications
Characteristic / Application
US style modular temperature assembly for heavy duty applications suitable for hazardous areas threaded process connection to use with thermowell backlit display

Thermowell / protection tube
to use with thermowell

Insert / probe
mineral insulated (MI), flexible

Max. immersion length on request
up to 30,000,00 mm (1.181,10‘)"

Material protection tube/ thermowell
Not defined

Optional coating
Not defined

Process connection
male thread:
G1/2"
NPT1/2"
NPT3/4"
union nut:
NPT1/2"
M24x1.5

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Max. process pressure (static)</strong></td>
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<tr>
<td><strong>Integration head transmitter</strong></td>
<td>yes (4 ... 20 mA; HART)</td>
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<td><strong>Ex - approvals</strong></td>
<td>ATEX II</td>
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<td>Explosion proof</td>
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<td><strong>Certification</strong></td>
<td>Gost Metrology</td>
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More information [www.endress.com/TMT142R](http://www.endress.com/TMT142R)