

Pt-100 Sensors

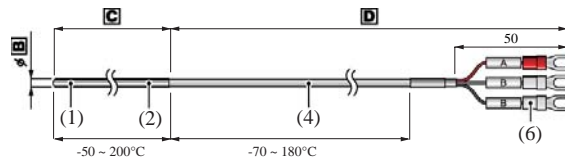


Sensors for use with RTR-52Pt & TR-81 TR-81XX

unit : millimeters

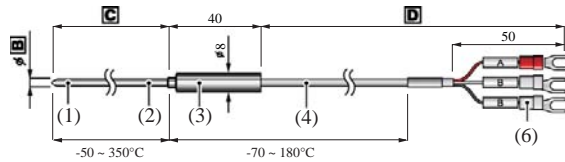
TR-8100-

Economical Type
Measurement Range: -50 to 200°C
Thermal Time Constant:
In agitated water: about 4.5 seconds **1



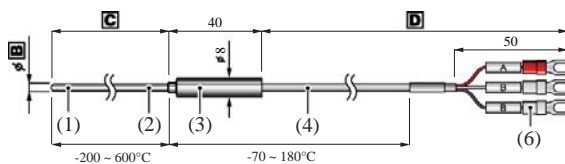
TR-8110-

Regular Type
Measurement Range: -50 to 350°C
Thermal Time Constant:
In agitated water: about 2 seconds **1



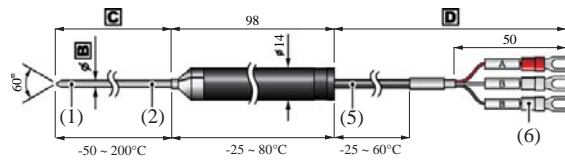
TR-8120-

Low to High Temp Type
Measurement Range: -200 to 600°C
Thermal Time Constant:
In agitated water: about 2 seconds **1



TR-8130-

Handy Type
Measurement Range: -50 to 200°C
Thermal Time Constant:
In agitated water: about 2.5 seconds **1



Materials: (1) Sensor (Pt100) (2) Stainless Protection Pipe (SU316)
(3) Sleeve (SU304) (4) Teflon Shielded Wires
(5) Vinyl Coated Wires (6) Crimp Terminals

**1: Stated thermal constant time is for sensors with a protection pipe diameter of 3.2mm.

All Pt-100 sensors supplied by TandD are custom produced to order, therefore please allow three weeks from time of order until shipment.

Sensor Configuration & Ordering

Sensor Types

TR-81 **A** - **B** - **C** - **D** M
Type Protection Pipe Diameter Protection Pipe Length Cable Length

A Sensor Type
00, 10, 20, or 30

C Sensor Protection Pipe Length
The protection pipe is available in 50 millimeter units in lengths from 50mm to 2000mm.

D Sensor Cable Length
The sensor cable is available in 1 meter units in lengths from 1 meter to 99 meters.

Ⓑ Sensor Protection Pipe Diameter

Ⓑ Recommended ○ Available – Not available

Protection Pipe Diameter	TR-8100	TR-8110	TR-8120	TR-8130
2.0mm	–	–	○	–
2.3mm	○	○	–	–
3.0mm	○	○	–	–
3.2mm	Ⓑ	Ⓑ	Ⓑ	Ⓑ
4.8mm	○	○	○	○
6.0mm	○	○	–	–
6.4mm	–	–	○	–

Examples:

TR-8100 with 3.2mm diameter x 100mm sheath with 2m of cable: TR-8100-3.2-100-2M
TR-8120 with 2.0mm diameter x 200mm sheath with 1m of cable: TR-8120-2.0-200-1M

Sensor Specifications

Sensor Device	Pt100
RTD Type	A
Electrical Current	less than 2 mA

Insulation Resistance	DC500V Over 10 MOhm
Conductor	3 wire type

Range of Error	$\pm(0.15+0.002xt)^{\circ}\text{C}$ (t: absolute value of measurement)
Water Resistance	None (only stainless protection pipe is water resistant)

Web Site
T&D Online

Product information, FAQ and software update downloads. <http://www.tandd.com/>

Colors in the photos in this catalog may be different from real product colors. The specification and designs of the products in this catalog are true as of December 2007.



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