

# Pt100 temperature probes

*External Pt100 or Pt1000 temperature probes for HW group products.*



Probe Pt100 TG8 2m



Probe Pt100 TR125 2m

**For measurements over LAN (Poseidon2) and GSM (Ares):**



Converter 2xPt100 1W-UNI

- For use with Poseidon2 or Ares.
- Two Pt100 or Pt1000 temperature probes can be connected.



Temp-485-Pt100 Box2  
Temp-485-Pt100 Cable3  
Temp-485-Pt100 Frost2

- For use with Poseidon2 4002 or Poseidon 2250.

## Probe Pt100 TG8 2m

Pt100 resistor-type temperature probe with a 2m cable. Enclosed in a stainless steel rod and connected with a 4-wire cable. 2-, 3-, or 4-wire connection can be used.

The probe is typically attached to the measured system with a tie band.



Probe temperature range  
Accuracy

-50 to 200°C (-58 to 390°F)  
 $\pm(0.15+0.002t)$  [°C] (minimum immersion 80mm)

- Measuring element  
- Rod length  
- Cover  
- Probe diameter  
- Enclosure material

Pt100/A  
50 mm  
IP67 (EN 60529)  
5.7 mm  
17240 stainless steel

- Cable  
- Color marking

2m long, 4 x 0.22mm<sup>2</sup>, shielded silicone  
2x white, 2x red

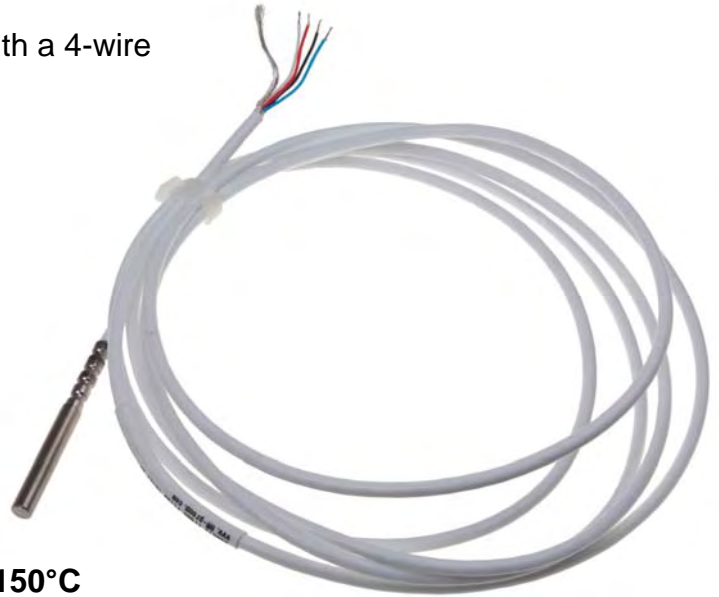
- Standard

ISO/IEC 17050-1

## Probe Pt100 TR125 2m

Pt100 resistor-type temperature probe with a 2m cable. Suitable for measuring very low temperatures.

Enclosed in a stainless steel rod and connected with a 4-wire cable. 2-, 3-, or 4-wire connection can be used.



Probe temperature range

**-190 to +150°C**  
**(-310 to +300°F)**

Accuracy

$\pm(0.3+0.005t)$  [°C] in the -100°C to 150°C range

- Measuring element
- Rod length
- Cover
- Probe diameter
- Enclosure material

Pt100/B  
50 mm  
IP67 (EN 60529)  
 $5 \pm 0.1$  mm  
17240 stainless steel (DIN 1.4301)

- Cable
- Color marking

2m long,  $4 \times 0.14\text{mm}^2$ , shielded PTFE  
red + blue / white + black

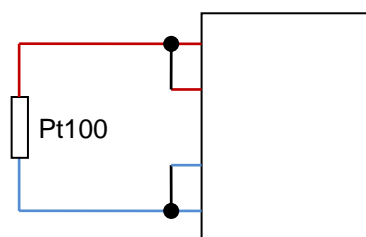
- Standard

ISO/IEC 17050-1

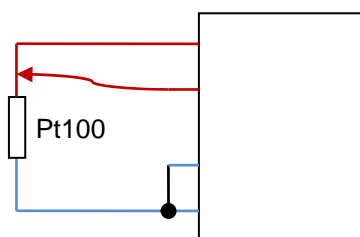
## Practical tips

- **Is it better to choose Pt100 or Pt1000?**  
Pt100 uses a higher measuring current so it is recommended for industrial environments. If you need to connect the probe with thin wires, Pt1000 may be more suitable.
- **What cables should be used?**  
An economic way to connect the probes is to use a twisted-pair cable with four twisted pair, e.g. the type used for computer networks.  
To increase accuracy when the probe connection is long (more than 2 meters), connect the probe using wires with a larger cross section.
- **How many wires to use to connect the probe?**  
To increase accuracy, we recommend the 4-wire connection.

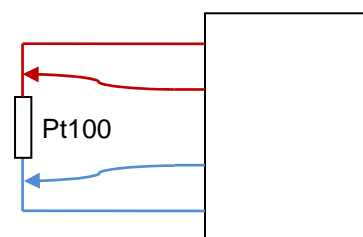
## Connecting the probe



2-wire connection



3-wire connection



4-wire connection

## Contact

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