

TPS, TPH

Temperature sensors PT 100, PT 1000



The temperature sensors TPS have a temperature-dependent platinum resistor PT 100 (PT1000) with a nominal resistance of 100 Ohm (1000 Ohm) at 0 °C. For compensation of line resistances, they are constructed in four-conductor technics.

The sensors are very robust and suitable for application under rough site conditions. According to temperature range and required accuracy, the sensor TPS is used, for higher requirements the sensor TPS-E is more suitable.

Besides the standard version, the sensors are also available in special models which are suitable for pressing into the underground. Furthermore, the standard version can also be delivered with additional cable screwing and strain relief. For application in an extended temperature range, a special cable is required. For manual reading of single measuring points, the handheld readout unit HMG can be used. The necessary supply for the temperature sensors is placed in the measuring instruments.

Types

- TPS Standardsensor
- TPS-E Standard sensor with extended temperature range
- TPS-P Temperature sensor to press in, connection thread R 1/4"
- TPS-EP Temperatur sensor to press in, extended temperature range, connection thread R 1/4"

Technical data

Absolute accuracy:	acc. to DIN 43760 class A, B, 1/3A
Standard temperature range:	-25 °C up to +75 °C
Extended temperature range:	-55 °C up to +180 °C
Special temperature range:	-100 °C up to +260 °C
Temperature sensors	TPS PT100, TPH PT1000

Higher accuracy ranges can be quoted on request.

PERMISSIBLE DEVIATION FROM BASIC VALUES ACC. TO DIN (PT 100)

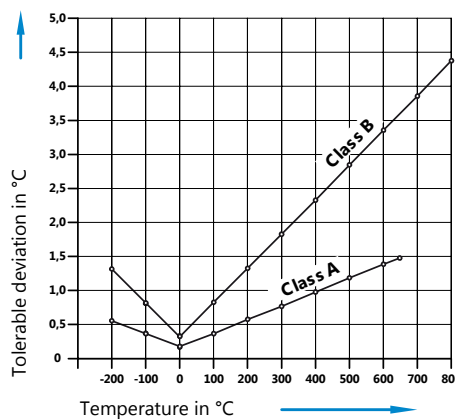
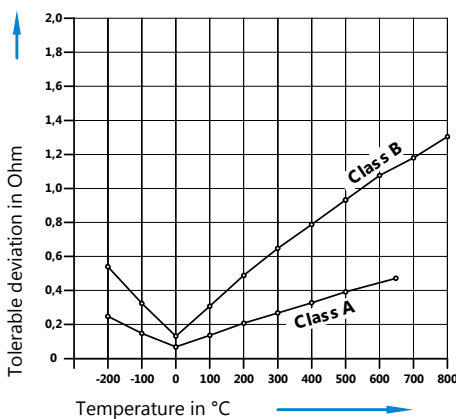


Fig.: Handheld Readout Unit HMG