

Cable resistance thermometers are frequently used, relatively inexpensive solutions for a wide range of temperature measurement tasks. They are mainly used in the lower to medium temperature range (-40...260°C). However, there are also special versions with an operating temperature of up to 400°C.

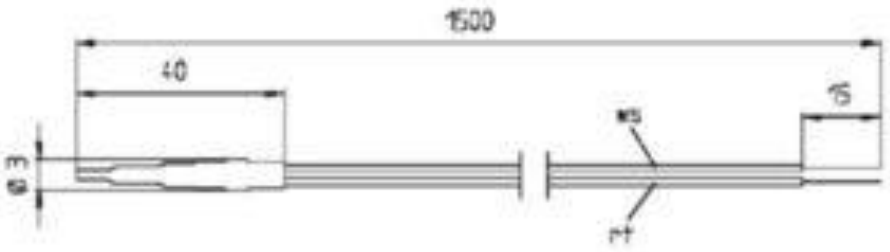
Resistance Thermometers Pt100

Basic properties

Pt100 measuring resistors in accordance with IEC60751 are usually used as basic sensors. Other nominal values (500, 1000 Ohm) or resistance materials (e.g. Ni, Cu) are available on request. We offer a wide range of cable resistance thermometers. Areas of application include

- Thermal Control Technology in winding or slot of electrical machines
- Measurements in laboratory and test facilities
- Measuring the temperature of air, water and solids
- Temperature measurements in hazardous areas

The requirements for these sensors are extremely varied. For the areas of application described above, for example, there are also waterproof cable thermometers for use in liquids and extra high-voltage-resistant winding head sensors (up to 8 kV) for direct use in high-voltage machines.



Technical data of Stock Type M-OK/DSH (Pt 100)

The bearing type M-OK/DSH is a cable thermometer in which a basic measuring resistor is assembled using a connection cable and shrink sleeve cap. These sensors are primarily used as winding head sensors for thermal motor protection. In principle, however, they are also an inexpensive solution for temperature measurements of any kind.

Execution
Measuring resistor, insulated in two layers using Heat Shrink Tubing, with permanently connected supply cable

Measuring range
From - 60°C to +250°C

Temperature sensor
1 passive measuring resistor, resistance material platinum Nominal resistance 100 Ω / 0°C Tolerance class A | B according to EN60751 Circuit type: 2-wire circuit

Shrink sleeve insulation
DSH: two-layer PTFE insulated Dimensions: Ø 3 mm, length 40 mm

Connection cable
PTFE single strands AWG 24/7 Cable length 1500 mm Cable ends 15 mm stripped Color code red / white

Test voltage
2.5kV/1min (sensor and conductor

Item number:
WTMOKDSH2LS1500

Versions (no bearing types)

- 3- and 4-conductor versions
- Waterproof design (IP 66)
- High-voltage-resistant design (up to 8kV)
- EEx e approved version according to ATEX
- Other cable lengths



Image: Version according to ATEX (with ATEX label)

Note

The data and information provided are based on tests and test series. They are intended as a guide, which is why there may be deviations for individual applications and uses. The suitability for a specific application must be checked by the user in each individual case. We will of course be happy to advise you.