Tm-Pt1000

Module Temperatur Sensor with Platinum Resistance



Short Description

Our module and surface temperature sensors come equipped with a robust weatherproof cable. Thanks to the use of top quality components the sensors achieve very high accuracy and are ideal for use in industrial and field environments (PV module temperature).
If required, the sensors can be ordered with an inspection certificate 3.1 as per DIN EN 10204.

Technical Data

Types	Tm-Pt1000
Sensor Element	Pt1000 Class A as per EN 60751
Sensor Housing	Self adhesive Aluminium Block, 35 mm x 12 mm x 6 mm
Sensor Cable	Length: 3 m, PUR coated, shielded (LiHC11Y, 2 x 0,25 mm²)
Weight	appr. 70 g
Operating Condition	-40 to +90 °C
Customs Number	90 25 19 20

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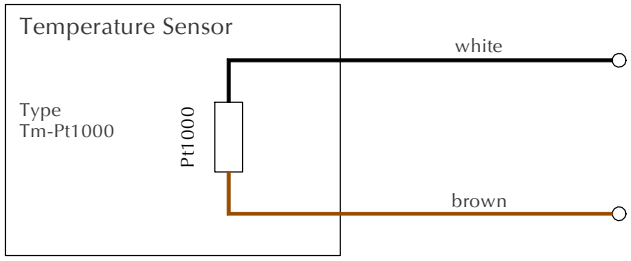
Module Temperature Sensor

Safety Instructions

The installation and assembly of electrical equipment must be carried out by electrically qualified persons.
The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.

Electrical Connection

The sensors are designed for safety extra-low voltage (SELV) operation.
For keeping the accuracy of the sensor a 4 wire measurement is strongly recommended.
Due to the selfheating, the wire current affects the accuracy of the measurement. Thus, the same should not exceed 0.1 mA.



Installation Instructions

If mounted outdoors, avoid direct exposure to sunlight and rain to the sensor housing (Aluminium block). If necessary, provide protection from the sun and rain.

The sensor element is mounted by glueing the aluminium block directly to the measurement surface. The surface must be dry, clean and degreased. It is also recommended using an extra fixing with silicon or Sikaflex, particularly for module temperature above 75°C.

Note: The module temperature measurement can be optimised by completely covering the sensor element.

The sensor cable needs a cable grip close to the sensor housing.



Maintanance

The sensors should be checked once a year for damage, contamination and correct fitting.