

Tmodul

Module Temperature 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

Type	Tmodul
Sensor Element	Pt100 Class B as per EN 60751
Sensor Housing	Silicone Rubber Patch, 40 mm x 13 mm x 5 mm
Sensor Cable	AWG30, Length: 2 m, PTFE coated, 4 wire PTFE coated
Weight	Approx. 35 g
Operating Condition	-50 to + 150 °C (see below Installation Instruction)
Customs Number	90 25 19 00

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Safety Instructions

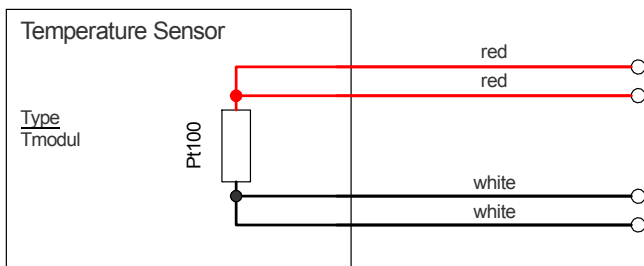
The installation and assembly of electrical equipment must be carried out by electrically qualified persons. The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.

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 self-heating, the wire current affects the accuracy of the measurement. Thus, the same should not exceed 1 mA.



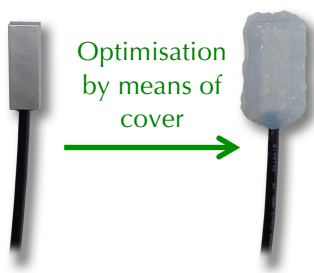
Installation Instructions

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

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

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

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



Maintenance

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

User information

The sensor is designed for the measurement of a surface temperature. The warranty is for 1 year from the date of the invoice for the intended use. M&T does not accept any liability for possible losses or damage due to the incorrect usage of the sensor. Liability for consequential damages is excluded.