Tmodul-Si

External PV Module Temperature Sensor for Si-RS485TC-2T-v



Short Description

Our module and surface temperature sensors come equipped with a stable Aluminium housing and a robust weatherproof cable. Thanks to the use of top quality components the sensors achieve very high accuracy and are ideal for use in field environments (PV module temperature).

Technical Data

Type	Tmodul-Si
Sensor Element	Pt1000 Class A as per EN 60751
Sensor Housing	Self-Adhesive Aluminium Block, 35 mm x 12 mm x 6 mm
Protection Level	IP 67
Pin Assignment	Pin 1: Pt1000 Pin 2: Pt1000 Pin 3: cable shield, isolated to Aluminium Block
Weight	approx. 85g
Operating Condition	-40 to +90°C (see below Installation Instruction)
Sensor Cable	Length: 3 m, PUR coated, shielded (LiYHC11Y, 2 x 0.25 mm²)
Customs Tariff 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

This sensor is designed for connecting to the Si sensor type Si-RS485TC-2T-v. For connecting remove the protection cab of the 3-pole socket of the Si-RS485TC-2T-v and connect the Tmodul-Si. To lock the cable connector, the threaded ring is tightened until it is 'finger-tight' (approx. 50 Ncm).

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 gluing 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 silicone 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.



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.