

# Tmodul

## Module Temperatur Sensor with Platinum Resistance



### 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	appr. 35 g
Operating Condition	-50 to + 150 °C
Customs Number	90 25 19 20

### 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 1mA.

### Installation Instructions

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

The through holes used to fix the sensor to a stable and suitable surface shall be accessible when the housing is opened.

The sensor element is mounted by glueing the sensor housing 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.

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, particularly for module temperature above 75°C.

### Maintanance

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