

Tmodul485-MT / Tmodul485-MB

Module Temperature Sensor with RS485 Interface



Measurement Range:	-40...+90°C
Operating Temperature:	-35...+80°C
Sensor Element:	Pt1000
Sensor Housing:	Aluminium block (35 mm x 12 mm x 6 mm with self adhesive foil) with 3 m cable
Case Material:	Polycarbonat
Protection:	IP65
Case Size:	120 mm x 80 mm x 36 mm
Weight:	approx. 450 g
Measurement Error:	±1 K for -35...+80°C
Galv. Isolation:	Up to 1000 V between RS485 and supply
Supply Voltage:	10...28 V _{DC}
Supply Current:	35 mA typ. at 24 V _{DC}
Interface:	RS485
Protocol:	M&T (-MT), MODBUS (-MB), see Specification Sheet
Connection:	6 m cable 4 x 0.14 qmm, uv and weather resistant
Wire Assignment:	Red – 10...28 V _{DC} Supply Black – GND Supply Orange – RS485 Data - Brown – RS485 Data +
Customs Number:	90 25 19 20

Release Note

The indicated measurement range is valid for all devices with firmware version 1.52 (-MB) resp. 1.09 (-MT). If MODBUS communication is designed for previous firmware version an adaption might be necessary. Downward compatibility is ensured.

Security Advice

The installation and assembly of electrical equipment may only be performed by a skilled electrician.

The sensor must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people, animals or real value.

Electrical Connection

The sensor is constructed for the operation of protective low voltage (SELV). For the electrical connection, the technical data of the corresponding device are valid.

Mounting Advices

In case of outdoor installation avoid direct rain and sun contact. Probably use sun or rain protection respectively.

Mounting is made directly by gluing the sensor to the measuring surface by means of double-sided tape. The surface must be dry, clean and fat-free. Additional fixing with silicone or Sikaflex is recommended for long-term adhering and cable anchorage.

Tmodul485-T-MT / Tmodul485-T-MB Ambient Temperatur Sensor with RS485 Interface

View Tmodul485-MT / -MB:



Drawing Tmodul485-MT / -MB:

