TEMPERATURE SENSOR

SENSOR / ITEM NO.

TA-EXT-RS485-MB / 423.221
TM-RS485-MB / 423.222

DESCRIPTION OF FUNCTIONS

Temperature sensors to record ambient and module temperature. The sensors are supplied in sturdy aluminium housings with a robust weatherproof cable.
With the RS485 interface, they are particularly suitable in the industrial sector, enabling long cable sections.

The following devices are available:

	Ta-ext-RS485-MB	Tm-RS485-MB
Item Nr.	423.221	423.222
Ambient temperature measurement	✓	-
Module temperature measurement	-	✓

TECHNICAL DATA

	Ta-ext-RS485-MB	Tm-RS485-MB
Supply voltage	24 V DC (10...28 V DC)	
Current consumption	typical 25 mA at 24 V DC	
Sensor element	Pt 1000 1/3 Class B as per EN 60751	Pt 1000 Class A as per EN 60751
Sensor cable	Length: 3 m, LiYC11Y, 4 x AWG 26	Length: 3 m, PUR coated, shielded (LiHC11Y, 2 x 0.25 mm²)
Measuring range	-40…+90 °C	
Deviation	1 K (Condition -40...+90 °C)	

CONFIGURATION

	Ta-ext-RS485-MB	Tm-RS485-MB
Interface	RS485	
Protocol	Modbus RTU	
Default baud rate	19200 bps	
Selectable baud rates	1200 bps, 2400 bps, 9600 bps, 19200 bps, 38400 bps	
Default address range	81...90 (see identification label)	91…100 (see identification label)
Default data format	8N1	
Selectable data formats	8N1, 8E1, 8O1, 8N2	

Note:

Changing the communication settings is only possible in connection with a USB to RS485 converter and the manufacturer's software.

INSTALLATION

	Ta-ext-RS485-MB	Tm-RS485-MB
Housing	Powder Coated Aluminium	
IP protection class	IP 67	
Operating temperature	-40…+80 °C	
Dimensions (W x H x D)	98 x 34 x 64 mm	
Weight	appr. 530 g	appr. 500 g
Connection cable	Lenght: 6 m, PUR coated, shielded (LiYC11Y, 4 x 0.14 mm²)	

Further information: www.meteocontrol.com