

TEMPERATURE SENSORS

SENSOR / ITEM NO.

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



DESCRIPTION OF FUNCTIONS

Temperature sensors for recording ambient and module temperature. The sensors are supplied in sturdy aluminium housings with a robust weatherproof cable. The RS485 interfaces make it particularly suitable for the industrial sector, enabling particularly long lengths of cable.

The following devices are available:

	Ta-ext-RS485-MB	Tm-RS485-MB
Item no.	423.221	423.222
Ambient temperature measurement	✓	-
Module temperature measurement	-	✓
1 x irradiation shield Tamb-Si (optional accessory, item no. 423.056)	✓	-

TECHNICAL DATA

	Ta-ext-RS485-MB	Tm-RS485-MB
Supply voltage	24 V DC (1028 V DC)	
Current consumption	typically 25 mA at 24 V DC	
Sensor element	PT 1000 1/3 class B acc. to EN 60751	PT 1000 class A acc. to 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	8190 (see type plate)	91100 (see type plate)	
Default data format	8N1		
Selectable data formats	8N1, 8E1, 8O1, 8N2		

Note:

Changes to the communication settings can only be made via a USB on an RS485 converter or via the manufacturer's software.

INSTALLATION

	Ta-ext-RS485-MB	Tm-RS485-MB	
Housing	Powder coated aluminium		
Protection class	IP 67		
Operating temperature	-40+80 °C		
Dimensions (W x H x D)	98 x 34 x 64 mm		
Weight	approx. 530 g	approx. 500 g	
Connection cable	Length: 6 m, PUR coated, shielded LiYC11Y, 4 x 0.14 mm ²		

IRRADIATION SHIELD TAMB-SI

ITEM NO. 423.056

DESCRIPTION OF FUNCTIONS

Weather and irradiation sensor for ambient temperature sensors with cable sensors. Optional accessory for:

Ta-ext-RS485-MB

INSTALLATION

 Remove the plastic holder on the Tamb-Si sensor.
CAUTION: Do not damage the cable jacket!

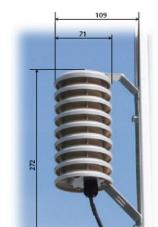




Tamb-Si

- Install the cable gland in the main bracket.
- Insert the Tamb-Si sensor in the cable gland. The sensor tube should extend less than 1 cm out of the cable gland.





 Install the radiation shield on the main bracket and support



All measurements in mm Weight: 270 g

Further information: www.meteocontrol.com