

**Pendulum room temperature measuring transducer,  
(with stainless steel sleeve), calibratable,  
with Modbus connection**

RPTM 1-Modbus

Calibratable resistance thermometer with stainless steel sleeve **THERMASGARD® RPTM 1-Modbus** with Modbus connection, enclosure made from impact-resistant plastic with quick-locking screws, with /without optional display for displaying actual temperature.

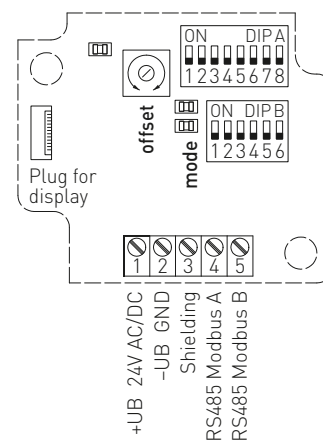
The room pendulum sensor is specifically designed for temperature detection in larger rooms or halls. Due to the measuring method employed by this room pendulum sensor in combination with its positioning in the room, an excellent measuring result that is representative of the room is achieved as ambient air of the room is circulating evenly around the sensor. The temperature transmitters are factory-calibrated. Adjustment / fine adjustment by the user is possible (zero point offset is adjustable).



**TECHNICAL DATA**

Voltage supply:	24 V AC (± 20 %) and 15...36 V DC
Power consumption:	< 1.0 VA / 24 V DC < 2.2 VA / 24 V AC
Sensor:	Pt1000, DIN EN 60751, class B
Sensor protection:	<b>plastic</b> sinter filter, Ø 16 mm, L = 35 mm, exchangeable (optional <b>metal</b> sinter filter, Ø 16 mm, L = 32 mm)
Measuring range:	-50...+150 °C
Temperature deviation:	± 0.2 K at +25 °C
Zero point offset:	± 10 °C
Ambient temperature:	Measuring transducer -30...+70 °C
Medium:	clean air and non-aggressive, non-combustible gases
Error detection:	sensor breakage, sensor short circuit
Bus protocol:	Modbus (RTU mode), address range 0... <b>247</b> selectable
Signal filtering:	0.3 s / 1 s / 10 s
Enclosure:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover for display is transparent!
Enclosure dimensions:	72 x 64 x 37.8 mm (Tyr 1 without display) 72 x 64 x 43.3 mm (Tyr 1 with display)
Cable gland:	2x M 12 x 1.5 (Y-adapter); with strain relief, exchangeable, max. inner diameter 6 mm
Connection cable:	PVC, H03VV-F, 2 x 0.5 mm <sup>2</sup> , cable length (KL) = approx. 1.5 m (other lengths optional)
Protective tube:	<b>stainless steel</b> , Ø=16 mm, NL = 142 mm
Permissible air humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	<b>IP 65</b> (according to EN 60 529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC Directive 2014 / 30 / EU
Optional:	two-line <b>display with illumination</b> , programmable, cutout approx. 36 x 15 mm (W x H), for displaying the actual temperature or an individually programmable display value (The Modbus interface allows the display to be individually configured in the 7-segment area and in the dot-matrix area.)
<b>ACCESSORIES</b>	see table
<b>MODBUS-Y</b>	<b>Y-adapter</b> for cable gland M16x1.5 (on 2x M12x1.5), plastic (included in the scope of delivery)

Schematic diagram **THERMASGARD® MODBUS**



- DIP A: Bus address
- DIP B: Bus parameters (Baud rate, parity ...)
- Telegram indicator Reception (LED green) Error (LED red)
- LED (internal status)
- Offset correction temperature: ± 10°C
- Plug for display contact is on the right side

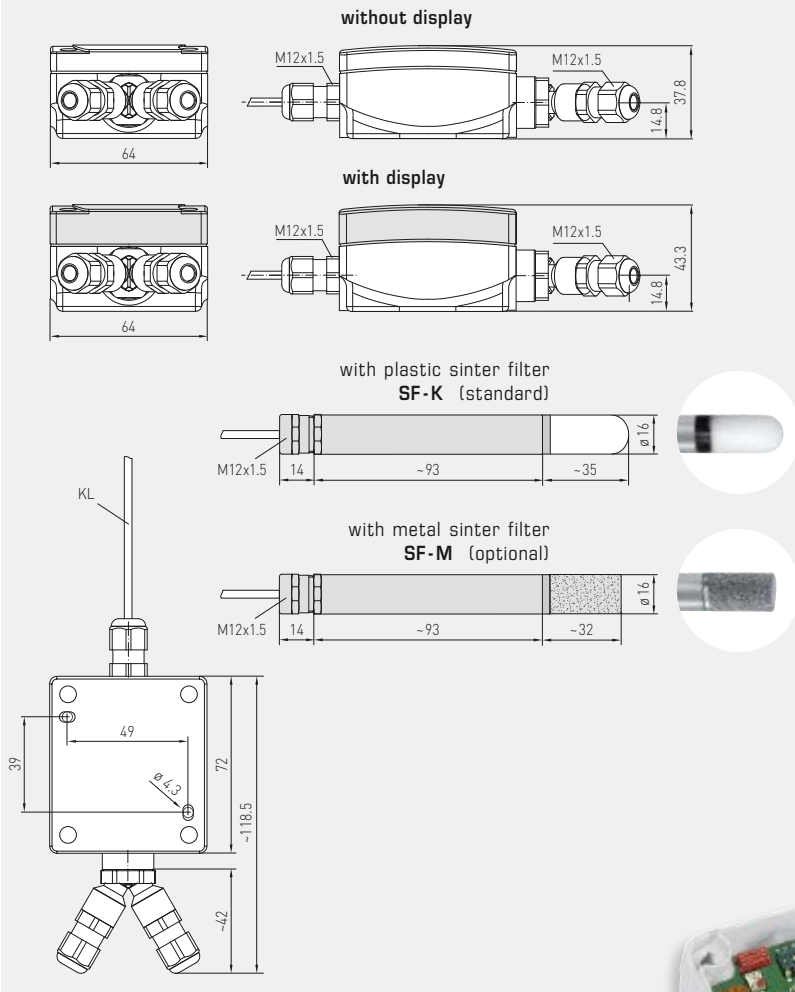


S+S REGELTECHNIK

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Dimensional drawing

RPTM 1-Modbus



RPTM 1-Modbus  
with display



THERMASGARD® RPTM 1-Modbus – Pendulum room temperature measuring transducer (with stainless steel sleeve)

Type / WG01	Sensor	Output	Type	Display	Item No.	Price
<b>RPTM 1-Modbus</b>						
RPTM1-MODBUS	Pt1000	Modbus	Remote sensor		1101-1266-0210-000	
RPTM1-MODBUS DISPLAY	Pt1000	Modbus	Remote sensor	■	1101-1266-2210-000	
Extra charge:	per running metre of connecting lead (PVC)					on request

Accessories

<b>KA-2</b>	<b>Modbus communication adapter</b> with USB/RS485 interface for system connection or/and as an active bus termination resistance				on request
<b>SF-M</b>	<b>Metal sinter filter</b> , Ø 16 mm, L = 32 mm, exchangeable stainless steel <b>V4A</b> (1.4404)				7000-0050-2200-100

For further information, see last chapter Accessories!

