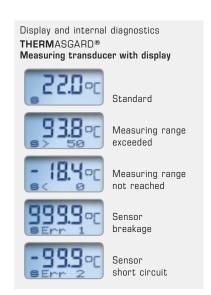
S+S REGELTECHNIK

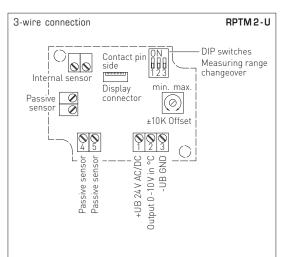
Pendulum room temperature measuring transducers, calibratable, with multi-range switching and active output

Calibratable resistance thermometer THERMASGARD® RPTM 2 with eight switchable measuring ranges, continuous output, terminal box enclosure made of impact-resistant plastic and enclosure cover with quick-locking screws, with or without optional display (for displaying actual temperature). This room pendulum sensor is specifically designed for temperature detection in larger rooms and halls, as a dark radiation sensor for example. Due to the measuring method employed by this pendulum room temperature sensor in combination with its positioning in the room, excellent and room-representative measuring results are achieved. The globe thermometer RPTM2 determines the effective portion of active radiation or the effective radiant heat at the measured location. The globe temperature is determined to take heat radiation into consideration and to estimate thermal comfortableness (operative room temperature). The operative room temperature describes the coaction of heat radiation and heat convection (the ratio of globe temperature / air temperature is approx. 70% / 30%). These sensors are factory-calibrated. Adjustment / fine adjustment by the user is possible (range and zero point are adjustable).

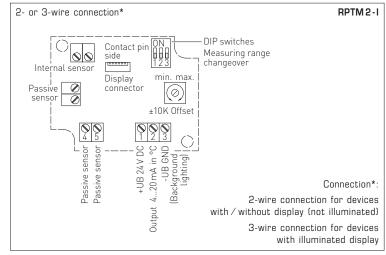
TECHNICAL DATA	
Power supply:	$24V$ AC / DC (± 10 %) for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised $\pm0.3V$
Working resistance:	$R_a$ (ohm) = $(U_b - 14 V) / 0.02 A$ for I variant
Load resistance:	$R_L > 5  kOhm$ for U variant
Power consumption:	< 1.0 VA / 24 V DC; < 2.2 VA / 24 V AC
Sensor:	Pt1000, DIN EN 60751, class B
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, 5 measuring ranges usable, see table (other ranges optional) $T_{min}$ -50°C, $T_{max}$ +80°C with manual zero point correction ( $\pm$ 10 K)
Deviation, temperature:	±0.2K at +25°C
Output:	0-10V or 420mA
Ambient temperature:	measuring transducer -5+60 °C
Connection type:	2- or 3-wire connection
Globe:	plastic, colour black, $\emptyset = 50\text{mm}$
Sensor cable:	PVC; LiYY, 1.5 m (other lengths optional: e.g. 3 m, 6 m)
Enclosure:	plastic, 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:	M16 x1.5, including strain relief, exchangeable, max. inner diameter 10.4 mm
Electrical connection:	0.14 - 1.5 mm², via terminal screws
Humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC directive 2014 / 30 / EU
Optional:	Two-line display with illumination, cutout approx. 36 x15 mm (W x H), for displaying the ACTUAL temperature and the internal diagnostics (measuring range exceeded, measuring range not reached, sensor breakage, sensor short circuit)







www.SplusS.de



Pendulum room temperature measuring transducers,

calibratable, with multi-range switching and active output

Dependency of output voltage

2.0 2.5 3.0 3.5

on output current

Ua (V)

0.5 1.0

Item No.

IP65, I-variant

IP65, U-variant

1101-1172-0219-910

1101-1171-0219-910

10

8

6

4

2

0

RPTM 2

with display





































la (mA)

































Price

128,85 €

128,85 €

21,42 € 42,02 €

THERMASGARD® RPTM 2 - Pendulum room temperature measuring transducers (with globe)

Output

4...20 mA

0 - 10 V

2-wire connecting leads, per running meter (PVC)

Туре

Remote sensor

Remote sensor

RPTM 2

M16x1.5

M16x1.5

without display

with display

DIP

1

ON

OFF

ON

OFF

ON

OFF

ON

OFF

(observe max. permissible temperature ranges!)

Sensor

Pt1000

Pt1000

Other ranges optional

Two-line  $\mbox{\bf display}$  with illumination

DIP

2

ON

ON

OFF

OFF

ON

ON

OFF

OFF

DIP

3

ON

ON

ON

ON

OFF

OFF

OFF

OFF

M12x1.5

Measuring ranges

(adjustable)

–20…+150°C

-50... +50°C

–20... +80°C

0... +40°C

0... +50°C

0...+100°C

0...+150°C

Type / WG01

RPTM 2-I

RPTM2-I

RPTM 2-U

RPTM2-U

Extra charge:

+60°C

-30...

S+S REGELTECHNIK

Dimensional drawing

on request