

Resistance thermometer **THERMASGARD® RPTF 2** with passive output is specifically used for temperature detection in larger rooms and halls, as dark radiation sensor for example. The pendulum room sensor RPTF-2 (globe thermometer) determines the effective portion of active radiation or also the effective radiant heat at the measured location. Due to the measuring method employed by this pendulum room temperature sensor in combination with its positioning in the room, an excellent and room-representative measuring result is achieved. The globe temperature is determined to take heat radiation into consideration and to estimate the degree of thermal comfort (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 %).

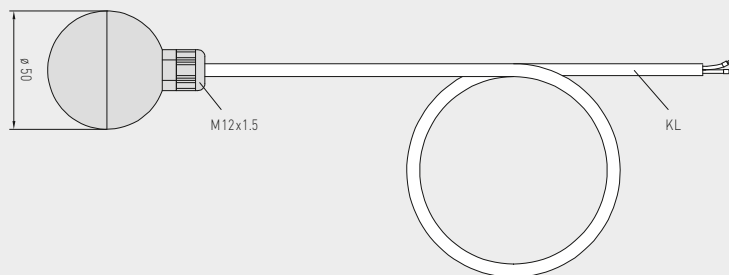
TECHNICAL DATA

Measuring range:	-5...+60 °C
Sensors / output:	see table, passive (optional also with two sensors)
Connection type:	2-wire connection (4-wire connection optional)
Testing current:	< 0.6 mA (Pt1000) < 1.0 mA (Pt100) < 0.3 mA (Ni1000, Ni1000 TK5000) < 2.0 mW (NTC xx) < 2.0 mA (KTY 81-210) 400 µA...5 mA (LM235Z)
Globe:	plastic, colour black, Ø = 50 mm
Connection cable:	PVC, H03VV-F, 2 x 0.5 mm ² , ends stripped with wire end sleeves KL = approx. 1.5 m (other lengths optional)
Insulating resistance:	≥ 100 MΩ, at +20 °C (500 V DC)
Humidity:	< 95 % r. H.
Protection class:	III (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)



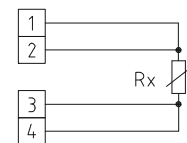
RPTF 2

Dimensional drawing

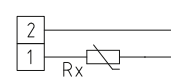


RPTF 2

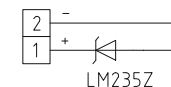
1x four-wire connection
(optional)



1x two-wire connection
standard



1x two-wire connection
LM235Z (KP10)



THERMASGARD® RPTF 2 Pendulum room temperature sensors (with globe)

Type / WG03	Sensor / Output	Item No.
RPTF 2		IP65
RPTF2 PT100	Pt100 (according to DIN EN 60 751, class B)	1101-6070-1211-010
RPTF2 PT1000	Pt1000 (according to DIN EN 60 751, class B)	1101-6070-5211-010
RPTF2 NI1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-6070-9211-010
RPTF2 NITK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-6071-0211-010
RPTF2 LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-6072-1211-010
RPTF2 NTC1,8K	NTC 1.8K	1101-6071-2211-010
RPTF2 NTC10K	NTC 10K	1101-6071-5211-010
RPTF2 PRECON	NTC 10K Precon	1101-6071-9211-010
RPTF2 NTC20K	NTC 20K	1101-6071-6211-010
RPTF2 NTC30K	NTC 30K	1101-6071-7211-010
RPTF2 KTY81-210	KTY 81-210	1101-6072-0211-010
Extra charge::	2-wire connecting leads, per running meter (PVC) 4-wire connecting leads, per running meter (PVC)	on request on request
For special orders please specify:	Type, sensor type and cable length e.g. RPTF2 Pt100, 3m; RPTF2 Pt1000, 4m; RPTF2 KTY 81-210, 6m	