

Duct temperature sensors / smoke gas temperature sensors, including mounting flange, with passive output

Resistance thermometer / smoke gas temperature sensor **THERMASGARD® RGTF 1** with passive output, exchangeable measuring insert, straight protective tube, connecting head made of aluminium and mounting flange for measuring the relatively high temperatures in gaseous media, e.g. for exhaust air or flue gas temperature measurement.

TECHNICAL DATA

Measuring range:	–35...+600 °C (extended range limits from –100...+750 °C optional)
Sensor / output:	see table, passive, glass sensing resistor (Perfect Sensor Protection)
Accuracy class:	class B, DIN EN 60751
Connection type:	2-wire connection (3- or 4-wire connection optional)
Testing current:	approx. 1 mA
Protective tube:	stainless steel V4A (1.4571), Ø = 9 mm inserted length (EL) = 200 - 500 mm (see table)
Connecting head:	form B, material aluminium, colour white aluminium (similar to RAL 9006), ambient temperature –20...+100 °C, M 20 x 1.5
Process connection:	by mounting flange, stainless steel (included in the scope of delivery)
Electrical connection:	0.14 - 2.5 mm ² via terminal screws on ceramic base
Insulating resistance:	≥ 100 MΩ, at +20 °C (500 V DC)
Humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 54 (according to EN 60529) IP 65 (optional)

RGTF 1
Top view



2-wire connection
(standard)



4-wire connection
(optional)

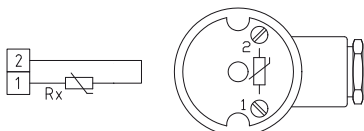


RGTF 1
standard
(IP 54)

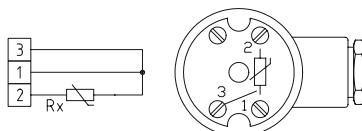


RGTF 1
optional
(IP 65)

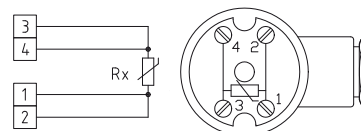
1x two-wire connection
Standard



1x three-wire connection



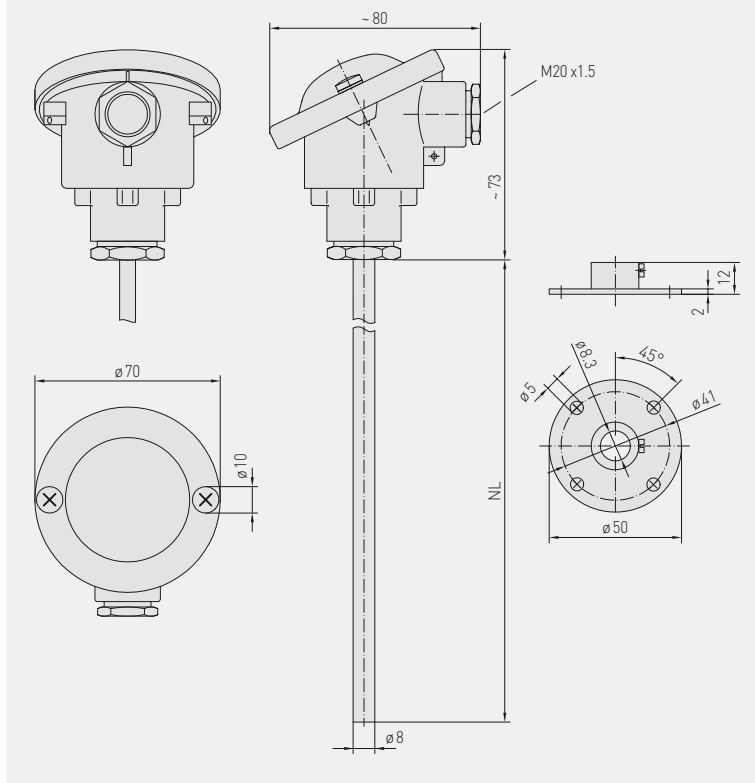
1x four-wire connection



Dimensional drawing

RGTF 1

RGTF 1



High-performance encapsulation against
vibration, mechanical stress and humidity



PS-PROTECTION
PERFECT SENSOR PROTECTION



RGTF 1
Measuring insert with
ceramic tubelet

THERMASGARD® RGTF 1 – Duct temperature sensors / flue gas temperature sensors

Type / WG03	Sensor / Output	Inserted Length (EL)	Item No.	Price
RGTF1 PT100 xx	Pt100		IP54	
RGTF1 PT100 200MM	Pt100 (according to DIN EN 60 751, class B)	200 mm	1101-3040-1041-000	150,32 €
RGTF1 PT100 250MM	Pt100 (according to DIN EN 60 751, class B)	250 mm	1101-3040-1051-000	151,94 €
RGTF1 PT100 300MM	Pt100 (according to DIN EN 60 751, class B)	300 mm	1101-3040-1061-000	155,47 €
RGTF1 PT100 500MM	Pt100 (according to DIN EN 60 751, class B)	500 mm	1101-3040-1101-000	160,09 €
RGTF1 PT1000 xx	Pt1000		IP54	
RGTF1 PT1000 200MM	Pt1000 (according to DIN EN 60 751, class B)	200 mm	1101-3040-5041-000	150,32 €
RGTF1 PT1000 250MM	Pt1000 (according to DIN EN 60 751, class B)	250 mm	1101-3040-5051-000	151,94 €
RGTF1 PT1000 300MM	Pt1000 (according to DIN EN 60 751, class B)	300 mm	1101-3040-5061-000	155,47 €
RGTF1 PT1000 500MM	Pt1000 (according to DIN EN 60 751, class B)	500 mm	1101-3040-5101-000	160,09 €
Extra charge:	Protection type IP65 (B-Head)			7,96 €
	Other ranges optional			21,42 €
For special orders please specify:	Type, sensor, measuring range, connection type, process connection, inserted length			