

**Screw-in / smoke gas temperature measuring transducer
with neck tube, calibratable, with multi-range switching
and active output**

The calibratable flue gas / screw-in temperature measuring transducer **THERMASGARD® RGTM 2** with eight switchable measuring ranges, with neck tube, exchangeable spring-mounted measuring insert, straight protective tube, connecting head made of aluminium and continuous output for the detection of high temperatures in gaseous media, e.g. for exhaust air or flue gas temperature measurement. These sensors are factory-calibrated. Adjustment / fine adjustment by the user is possible (range and zero point are adjustable).

TECHNICAL DATA

Power supply:	24 V AC / DC (± 10 %) for U variant 15...36 V DC for I variant, depending on working resistance, residual ripple stabilised ± 0.3 V
Working resistance:	max. 750 mA / 24 V DC for I variant
Load resistance:	10 kOhm (load max. 1 mA) for U variant
Power consumption:	< 0.2 VA / 24 V AC / DC < 0.55 VA / 24 V DC
Sensor:	Pt1000, DIN EN 60751, class B, glass sensing resistor (Perfect Sensor Protection)
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, see table (other ranges optional) with manual zero point correction (± 5 K)
Deviation, temperature:	± 0.2 K at +25 °C
Output:	0 - 10 V or 4...20 mA
Ambient temperature:	measuring transducer -30...+70 °C
Connection type:	2- or 3-wire connection
Process connection:	screwed socket with G ½" straight pipe thread
Protective tube:	stainless steel, V4A (1.4571), G ½" straight pipe thread, wrench size 27 mm, p _{max} = 40 bar, Ø = 8 mm length of neck tube (HL) = 80 mm inserted length (EL) = 100 - 400 mm (see table)
Connecting head:	form B, material aluminium, colour white aluminium (similar to RAL 9006), M20 x 1.5
Electrical connection:	0.14 - 1.5 mm ² via terminal screws
Humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP 54 (according to EN 60 529), IP 65 (optional)
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326, EMC directive 2014 / 30 / EU

RGTM 2
Top view



RGTM 2
Connecting head



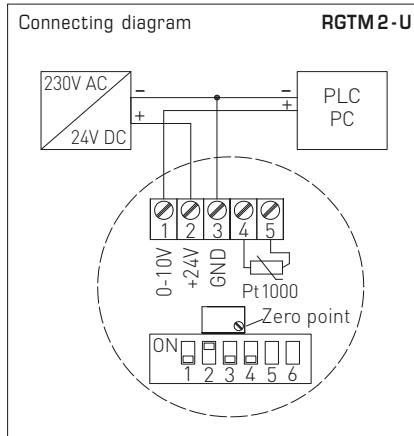
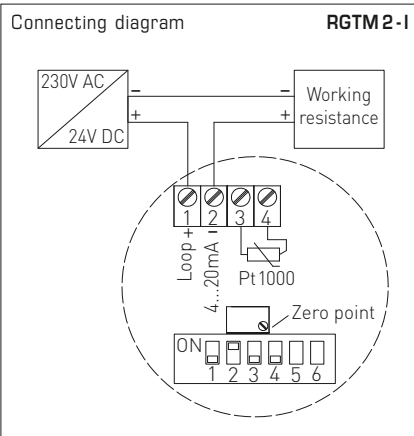
High-performance encapsulation against
vibration, mechanical stress and humidity

PS-PROTECTION
PERFECT SENSOR PROTECTION

RGTM 2
standard
(IP 54)



RGTM 2
optional
(IP 65)





S+S REGELTECHNIK

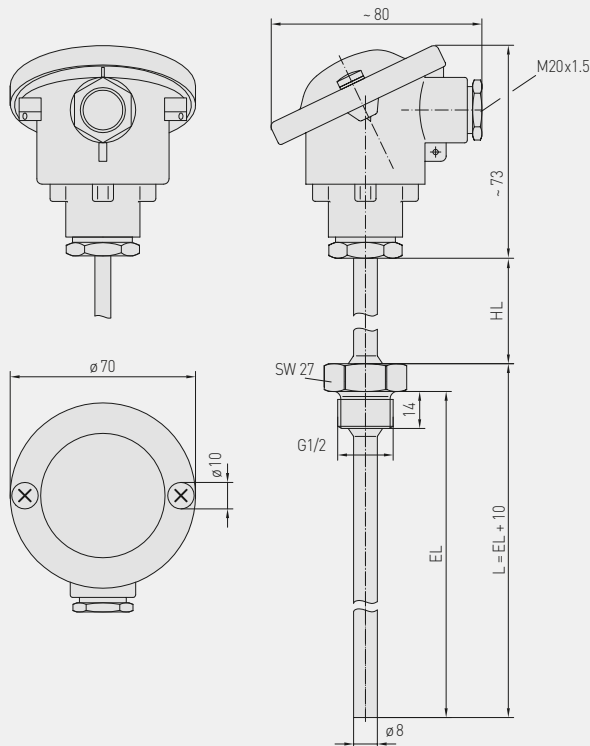
THERMASGARD® RGTM 2

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Dimensional drawing

RGTM 2



RGTM 2



RGTM 2
Measuring insert with
ceramic tubelet

Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3	DIP 4
-20 °C...+150 °C	ON	ON	ON	ON
0 °C... +50 °C	OFF	ON	ON	ON
0 °C...+100 °C	ON	OFF	ON	ON
0 °C...+200 °C	OFF	OFF	ON	ON
0 °C...+300 °C	ON	ON	OFF	ON
0 °C...+400 °C	OFF	ON	OFF	ON
0 °C...+500 °C	ON	OFF	OFF	ON
0 °C...+600 °C	OFF	OFF	OFF	ON

THERMASGARD® RGTM 2 – Screw-in / smoke gas temperature measuring transducer with neck tube

Type / WG01	Sensor	Output	Inserted Length (EL)	Item No.	Price
RGTM 2-I				IP 54, I-variant	
RGTM2-I 100/80MM	Pt1000	4...20 mA	100 mm	1101-2162-0029-800	236,23 €
RGTM2-I 150/80MM	Pt1000	4...20 mA	150 mm	1101-2162-0039-800	240,52 €
RGTM2-I 200/80MM	Pt1000	4...20 mA	200 mm	1101-2162-0049-800	242,66 €
RGTM2-I 250/80MM	Pt1000	4...20 mA	250 mm	1101-2162-0059-800	252,33 €
RGTM2-I 300/80MM	Pt1000	4...20 mA	300 mm	1101-2162-0069-800	255,55 €
RGTM2-I 400/80MM	Pt1000	4...20 mA	400 mm	1101-2162-0089-800	256,63 €
RGTM 2-U				IP 54, U-variant	
RGTM2-U 100/80MM	Pt1000	0-10 V	100 mm	1101-2161-0029-800	236,23 €
RGTM2-U 150/80MM	Pt1000	0-10 V	150 mm	1101-2161-0039-800	240,52 €
RGTM2-U 200/80MM	Pt1000	0-10 V	200 mm	1101-2161-0049-800	242,66 €
RGTM2-U 250/80MM	Pt1000	0-10 V	250 mm	1101-2161-0059-800	252,33 €
RGTM2-U 300/80MM	Pt1000	0-10 V	300 mm	1101-2161-0069-800	255,55 €
RGTM2-U 400/80MM	Pt1000	0-10 V	400 mm	1101-2161-0089-800	256,63 €
Extra charge:	Protection type IP 65 (B-Head) Other ranges optional				7,96 € 21,42 €