

**Duct/smoke gas temperature measuring transducer, including mounting flange, calibratable, with multi-range switching and active output**

Calibratable flue gas measuring transducer **THERMASGARD® RGTM 1** with eight switchable measuring ranges, exchangeable spring-mounted measuring insert and straight protective tube, connecting head made of aluminium, metal mounting flange 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 <b>(Perfect Sensor Protection)</b>
Measuring ranges:	<b>multi-range switching with 8 switchable measuring ranges,</b> see table (other ranges optional) <b>with manual zero point correction (± 5K)</b>
Deviation, temperature:	± 0.2 K at +25 °C
Output:	0 - 10V or 4...20 mA
Ambient temperature:	measuring transducer -30...+70 °C
Connection type:	2- or 3-wire connection
Process connection:	by mounting flange, stainless steel (included in the scope of delivery)
Protective tube:	stainless steel, <b>V4A</b> (1.4571), Ø = 8 mm inserted length (EL) = 200 - 400 mm (see table)
Connecting head:	form B, material aluminium, colour white aluminium (similar to RAL 9006), M 20 x 1.5
Electrical connection:	0.14 - 1.5 mm <sup>2</sup> 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 1**  
Top view



**RGTM 1**  
Connecting head



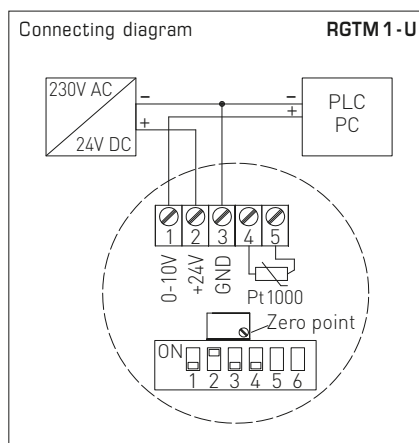
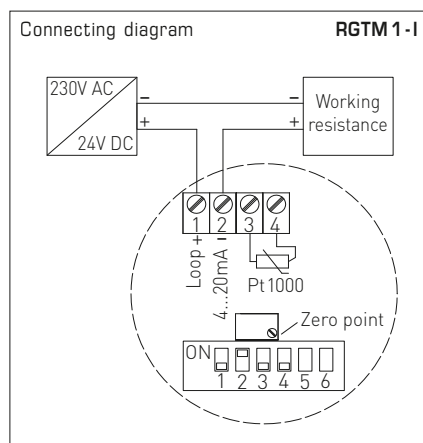
High-performance encapsulation against vibration, mechanical stress and humidity



**RGTM 1**  
standard  
(IP 54)



**RGTM 1**  
optional  
(IP 65)





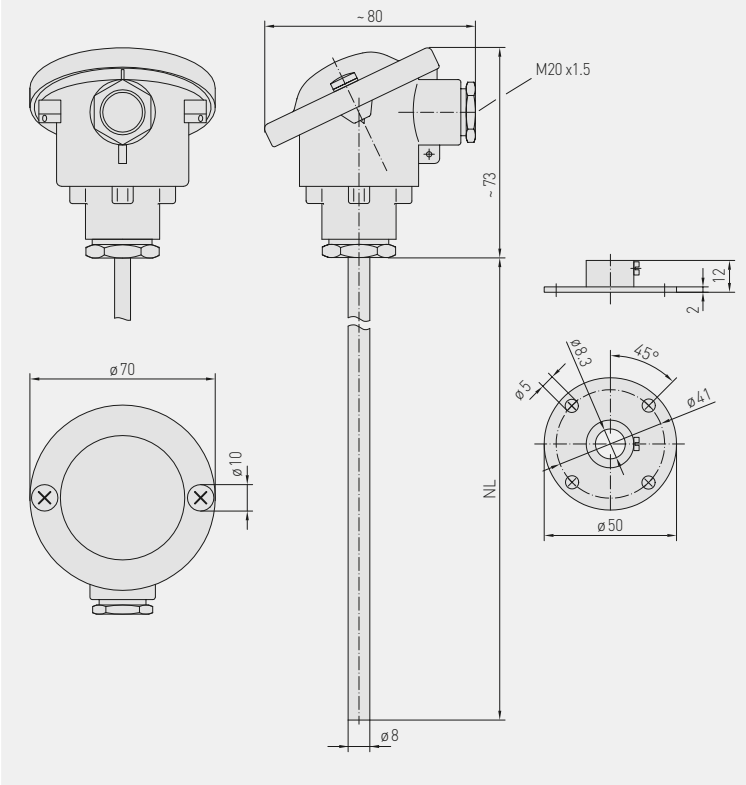
S+S REGELTECHNIK

Thermasgard® RGTM 1

Duct/smoke gas temperature measuring transducer, including mounting flange, calibratable, with multi-range switching and active output

Dimensional drawing

RGTM 1



RGTM 1



RGTM 1  
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 1 – Duct / smoke gas temperature measuring transducers**

Type / WG01	Sensor	Output	Inserted Length (EL)	Item No.	Price
<b>RGTM 1 - I</b>					<b>IP54, I-variant</b>
RGTM1-I 200MM	Pt1000	4...20 mA	200 mm	1101-3122-0049-800	243,20 €
RGTM1-I 250MM	Pt1000	4...20 mA	250 mm	1101-3122-0059-800	252,87 €
RGTM1-I 300MM	Pt1000	4...20 mA	300 mm	1101-3122-0069-800	255,55 €
RGTM1-I 400MM	Pt1000	4...20 mA	400 mm	1101-3122-0089-800	257,70 €
<b>RGTM 1 - U</b>					<b>IP54, U-variant</b>
RGTM1-U 200MM	Pt1000	0 - 10 V	200 mm	1101-3121-0049-800	243,20 €
RGTM1-U 250MM	Pt1000	0 - 10 V	250 mm	1101-3121-0059-800	252,87 €
RGTM1-U 300MM	Pt1000	0 - 10 V	300 mm	1101-3121-0069-800	255,55 €
RGTM1-U 400MM	Pt1000	0 - 10 V	400 mm	1101-3121-0089-800	257,70 €
Extra charge:	Protection type <b>IP 65</b> (B-Head)				7,96 €
	Other ranges optional				21,42 €