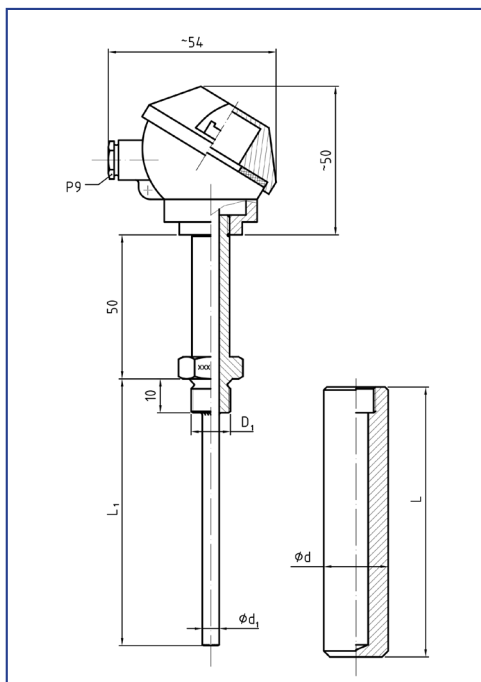


TOP-PGm-28

Resistance Thermometer Pt100 Miniature Straight with additional weld-in thermowell

Straight miniature resistance thermometer type TOP-PGm-28 has been designed for precise measurement of gas and liquid fluids particularly of water in central heating networks using Resistance Temperature Detectors 1xPt100 and 2xPt100 of A, B, 1/3B class.

Temperature limits: -50°C to +250°C. Protection tube is made of 1.4571 stainless steel and weld-in thermowell of steel A10, A12 or other, for direct welding to pipeline.



Type	Execution
TOP-PGm-28	Basic - acc to catalog card
TOP-PGm-28/Exi	Intrinsic – acc to Atex

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 / 2xPt100	standard / *shockproof	acc. EN-60751	-200°C..+600°C / *(-70°C..+500°C)	B	8 mA	2, 3, 4 wire
			-100°C..+450°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
			-50°C..+250°C / *(0°C..+150°C)	1/3B (AA)	3 mA	

Thermometer protect. tube diam. d ₁	Material acc. DIN/AISI	Immersion length L ₁ [mm]	Process connection thread D ₁
ø3, ø4, ø5, ø6	1.4571/316Ti	on request	on request (e.g. M8x1, M24x1,5, G1/2", G3/4", 1/2"NPT, 3/4"NPT)

Additional Thermowell diam. d	Material acc. DIN/AISI	Connection head	Max operating temp.	Transmitter
specify in mm	on request (e.g. 1.4571, 1.0715)	MA	+100°C	on request

Non-standard models available.

Ordering Information

TOP-PGm-28	A	B	C	D	E	F	G	H	I	J	K	L	M
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A Execution	
-	Basic
/Exi	Intrinsic safe

B Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

C Class	
B	B
A	A
1/3B	1/3B (AA)

D Lead wire configuration	
2p	2-wire
3p	3-wire
4p	4-wire

E Thermometer protect. tube diam. d_1	
3	$d_1 = 3 \text{ mm}$
4	$d_1 = 4 \text{ mm}$
5	$d_1 = 5 \text{ mm}$

F Immersion Length L_1	
	specify in mm

G Process connection thread D_1	
	specify type of thread

H Additional Thermowell material	
1.4571	1.4571 / 316Ti
1.0715	1.0715
	specify other material

I Additional Thermowell diam. d	
	specify diameter in mm

J Connection head	
MA	MA

K Operating temperature	
	specify in °C

L Transmitter	
	specify type and temp. range in °C

M Version	
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

TOP-PGm-28-1xPt100-A-3p-3-200-M8x1-1.4571-10-MA-Z

stands for: Resistance thermometer miniature straight with outer protection tube, in basic execution, with resistor 1xPt100 class A, configuration 3-wire, sensor protection tube diameter $\varnothing 3$, immersion length $L_1=200 \text{ mm}$, sensor thread M8x1, additional protection tube material 1.4571, additional thermowell diameter $\varnothing 10$, connection head type MA, standard sensor version.