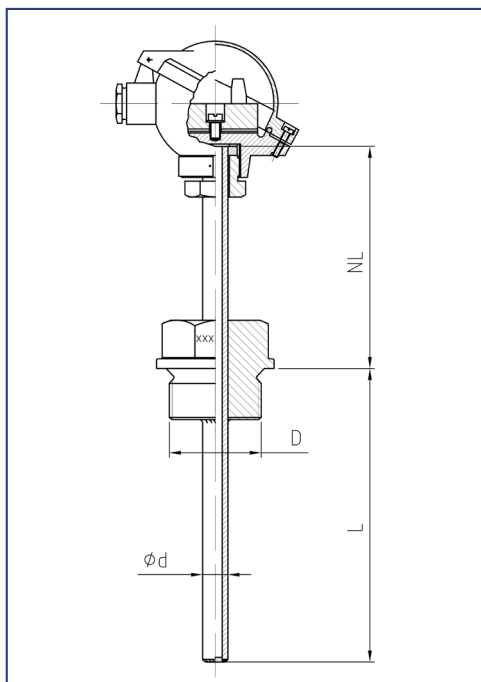


TOP-PKG-05

Resistance Thermometer Pt100 with process connection fitting

Straight Resistance Thermometer type TOP-PKG-05 with process connection fitting and extension tube is aimed for low flow rate gas and liquid service in pipes and pressurized vessels in range from -200°C to +600°C. Protection tube is made of alloy steel and thermometer may applied for corrosive process fluids.



Type	Execution
TOP-PKG-05	Basic - acc to catalog card
TOP-PKG-05/ExiM1	Intrinsic safe for mining purposes – acc to Atex
TOP-PKG-05/Exi	Intrinsic safe – acc to Atex
TOP-PKG-05/Exe	Increased safety – 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	

Diameter d	Material acc. DIN/AISI	Length L	Connection head	Transmitter
ø 6, ø 10, ø 12	1.4404 / 316L	on request	on request (e.g. NA, DAN, DANAW, MA)	on request
ø 4, ø 6, ø 8, ø 9, ø 10, ø 11, ø 12, ø 15	1.4571 / 316Ti			
ø 10, ø 11, ø 15	1.7335 / A182 Grade F11			
ø 12 , ø 13,7	2.4602 / Hastelloy C22			
Process connection thread D				
on request (e.g. M20x1.5, M24x1.5, G1/2", G3/4", 1/2"NPT, 3/4"NPT)				

Non-standard models available.

Ordering Information

TOP-PKG-05	A	B	C	D	E	F	G	H	I	J	K	L	M
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A Execution	
U	with non-replaceable insert
PS	with replaceable insert
PS/ExiM1	Intrinsic safe for mining purposes with replaceable insert
PS/Exi	Intrinsic safe with replaceable insert
PS/Exe	Increased safety with replaceable insert

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 Protection tube diameter	
4	d= 4 mm
6	d= 6 mm
8	d= 8 mm
9	d= 9 mm
10	d= 10 mm
11	d= 11 mm
12	d= 12 mm
13,7	d= 13,7 mm
15	d= 15 mm

F Length L	
	specify in [mm]

G Protection tube material	
1.4571	1.4571 / 316Ti
1.7335	1.7335 / A182 Grade F11
2.4602	2.4602 / Hastelloy C22

H Process connection thread D	
	specify type of thread

I Neck tube length NL	
	specify in [mm]

J Connection head	
	specify head type

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-PKG-05-PS-1xPt100-B-2p-10-250-1.4571-M20x1,5-145-NA-400-Z

stands for: Resistance thermometer with replaceable insert, with single class B resistor, 2-wire lead configuration, protection tube diameter 10 mm, length 250 mm, material 1.4571, process connection M20x1,5, neck tube length NL=145 mm, connection head type NA, operating temperature up to 400°C, standard sensor version (ceramic wire wound element)