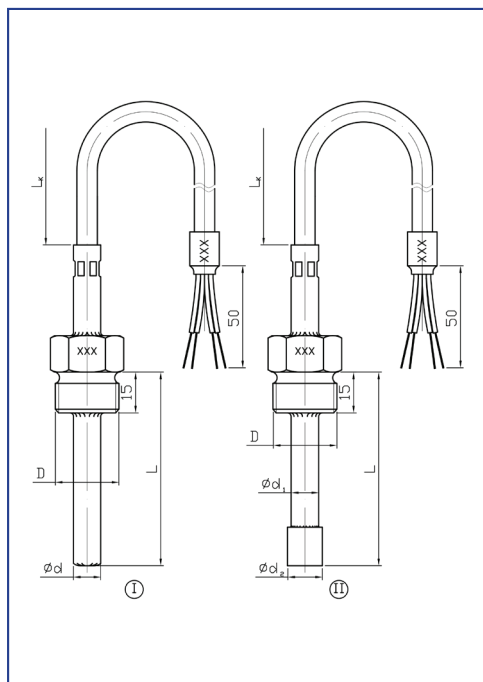


TOP-PKGKbm-20

Resistance Thermometer Pt100 with process connection fitting and cable with sheathed tube



Resistance thermometer type TOP-PKGKbm-20 with process connection fitting and cable, is designed for temperature measurement in aggregates, machineries, machine sets and sub-assemblies

Threaded process connection fitting allows easy and tight assembling of thermometer to tag point. Protection tube is made from sheathed cover with Cu wires and is used in thermometers under vibrations and thermal shocks.

Model	Execution
I	Basic protection tube
II	Protection tube with sleeve

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	-50°C..+400°C / *(-50°C..+400°C)	B	8 mA	2, 3, 4 wire
			-50°C..+400°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
			-50°C..+250°C / *(0°C..+150°C)	1/3B (AA)	3 mA	

Model I Diameter d	Model II Diameter d ₂ / d ₁	Material acc. DIN/AISI	Length L [mm]	Process connection thread D
ø3, ø3,5, ø4,5, ø5, ø6	ø 4/3, ø 6/5, ø 8/6	1.4571/316Ti	on request	on request (e.g. M10x1, M12x1, M20x1,5, G1/2", G1/4", G1/8")

Configuration	Dimension	Connection Cable Type	Insulation	Temp. limits
2 wire	ø 2,9	L2GGD-2x0,22mm2	glass fibre, glass fibre, screen	+400°C
3, 4 wire	ø 3,1	L4GGD-4x0,22mm2	glass fibre, glass fibre, screen	+400°C
2 wire	ø 4,2	L2TS-2x0,34mm2	teflon, silicone	+180°C
3, 4 wire	ø 4,3	L4TS-4x0,22mm2	teflon, silicone	+180°C
3, 4 wire	ø 2,9	L4TT-4x0,22mm2	teflon, teflon	+260°C
3 wire	ø 3,8	L6TT-6x0,22mm2	teflon, teflon	+260°C
2 wire	ø 4,3	L2SDS-2x0,25mm2	silicone, screen, silicone	+180°C
3, 4 wire	ø 4,4	L4TDS-4x0,25mm2	teflon, screen, silicone	+180°C
3, 4 wire	ø 4,0	L4TFDT-4x0,22mm2	teflon, film, screen, teflon	+260°C

Non-standard models available.

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Ordering Information

TOP-PKGKbm-20	A	B	C	D	E	F	G	H	I	J	K	L
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A Execution	
I	Basic protection tube
II	Protection tube with sleeve

B Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

D Protection tube diameter d	
3	d = 3 mm
3,5	d = 3,5 mm
4,5	d = 4,5 mm
5	d = 5 mm
6	d = 6 mm

E Diameter of sleeve d ₂ and sheath d ₁	
4/3	d ₂ = 4 mm ; d ₁ = 3 mm
6/5	d ₂ = 6 mm ; d ₁ = 5 mm
8/6	d ₂ = 8 mm ; d ₁ = 6 mm

F Process connection thread D	
	specify type of thread

G Protection tube material	
1.4571	1.4571 / 316Ti
	specify other material

H Protection tube length L	
	specify in mm

I Lead wire configuration and cable type	
2p-L2GGD	2 wire (L2GGD-2x0,22mm ²)
3p-L4GGD	3 wire (L4GGD-4x0,22mm ²)
4p-L4GGD	4 wire (L4GGD-4x0,22mm ²)
2p-L2TS	2 wire (L2TS-2x0,34mm ²)
3p-L4TS	3 wire (L4TS-4x0,22mm ²)
4p-L4TS	4 wire (L4TS-4x0,22mm ²)
3p-L4TT	3 wire (L4TT-4x0,22mm ²)
4p-L4TT	4 wire (L4TT-4x0,22mm ²)
3p-L6TT	3 wire (L6TT-6x0,22mm ²)
2p-L2SDS	2 wire (L2SDS-2x0,25mm ²)
3p-L4TDS	3 wire (L4TDS-4x0,25mm ²)
4p-L4TDS	4 wire (L4TDS-4x0,25mm ²)
3p-L4TFDT	3 wire (L4TFDT-4x0,22mm ²)
4p-L4TFDT	4 wire (L4TFDT-4x0,22mm ²)

J Cable length L _k	
	specify in mm

K Operating temperature	
	specify in °C

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

Ordering Example

TOP-PKGKbm-20-I-1xPt100-A-6-M20x1,5-1.4571-250-3p-L4TS-1500-Z

stands for: Resistance thermometer with process connection fitting and cable, with basic protection tube, with resistor 1xPt100 class A, protection tube diameter d=ø6 mm, thread M20x1,5, material 1.4571, length L=250 mm, configuration 3-wire, cable type L4TS length L_k=1500 mm, standard sensor version (ceramic wire wound element)

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