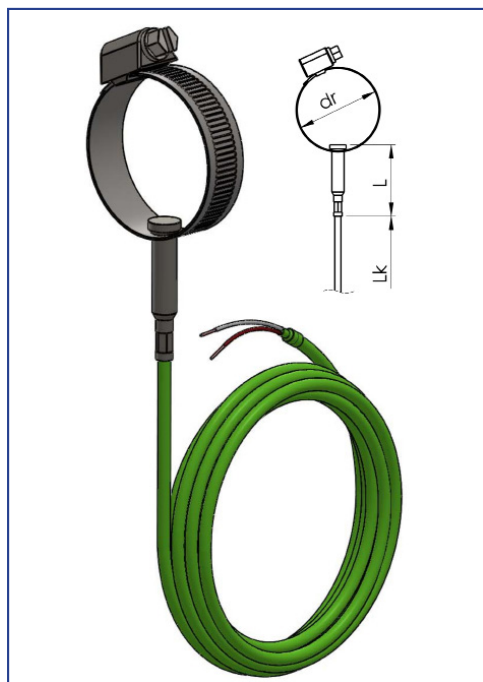


TOP-SpWKbm-50-IV

Contact Resistance Thermometer Pt100 for pipeline



Contact resistance thermometer type TOP-SpWKbm-50-IV has been designed for temperature measurement of pipelines and other round elements in the range of -50°C to +400°C, using shock-proof resistor Pt100.

Thermometer is fixed to the pipeline using a metal band clip.

Type	Execution	Version
TOP-SpWKbm-50-IV	Basic - acc to catalog card	IV
TOP-SpWKbm-50-IV/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	-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	

Pipeline diameter d_f [mm]	Contact ending material acc. DIN/AISI	Contact ending length L [mm]
on request	1.4571/316Ti	on request (min. 35 mm)
	MO59/CuZn39Pb2	

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
3, 4 wire	ø 4,0	L4TFDT-4x0,22mm2	teflon, film, screen, teflon	+260°C

Non-standard models available.

Ordering Information

TOP-SpWKbm-50	A	B	C	D	E	F	G	H	I	J
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A Execution	
IV	Basic with cable
IV/Exi	Intrinsic safe with cable

B Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

D Contact ending length L	
	specify in mm (min. 35 mm)

E Contact ending material	
1.4571	1.4571/316Ti
MO59	MO59/CuZn39Pb2

F 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)
3p-L4TFDT	3 wire (L4TFDT-4x0,22mm ²)
4p-L4TFDT	4 wire (L4TFDT-4x0,22mm ²)

G Cable length L_k	
	specify in mm

H Pipeline diameter d_r	
	specify in mm

I Operating temperature	
	specify in °C

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

Ordering Example

TOP-SpWKbm-50-IV-1xPt100-A-40-1.4571-3p-L4GGD-2000-50-(0-100 °C)-Z

stands for: Contact resistance thermometer with cable, with resistor 1xPt100 class A, ending length L=40mm, ending material 1.4571, configuration 3-wire, cable type L4GGD, length L_k=2000 mm, pipeline diameter d_r=50mm, operating temp. up to +100°C, standard sensor version