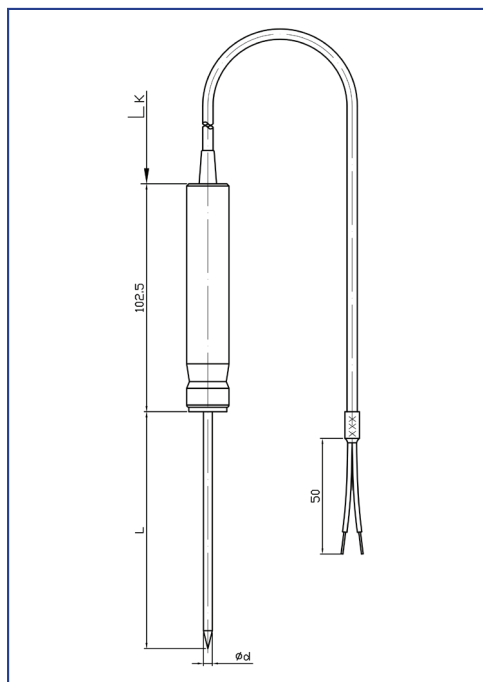


TOP-SpPKbm-25

Resistance Thermometer Pt100 for meat temp. measurement



The primary application of TOP-PKbSp-25 type resistance thermometer is temperature measurement of meat and meat products. It is also applicable for temperature measurement of other food products when it is required to drive the thermometer into such a product.

Protection tube is made of acid-proof stainless steel 1.4404, certified for food industry application.

Sub-assemblies which are in contact with meat products are welded with WIG method, which do not add any other material. All protection tube is polished onto roughness $Ra < 0,8$ mm.

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	

Protect. tube diam. d	Material acc. DIN/AISI	Length L [mm]
Ø4, Ø5, Ø6	1.4404/316L	on request

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 wire	Ø 4,3	L3TT-3x0,5mm2	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.

www.alf-sensor.com

Ordering Information

TOP-SpPKbm-25	A	B	C	D	E	F	G	H	I
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A Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

C Protection tube diameter d	
4	d= 4 mm
5	d= 5 mm
6	d= 6 mm

D Protection tube length L	
	specify in mm

E Protection tube material	
1.4404	1.4404 / 316L

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-L3TT	3 wire (L3TT-3x0,5mm 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)

G Cable length L_k	
	specify in mm

H Operating temperature	
	specify in °C

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

Ordering Example

TOP-SpPKbm-25-1xPt100-A-4-120-1.4404-3p-L4GGD-2000-Z

stands for: Resistance thermometer for temp. measurement of meat, resistor 1xPt100 class A, protection tube diameter ø4 mm, length 120 mm, material 1.4404, configuration 3-wire, cable type L4GGD length L_k=2000 mm, standard sensor version (ceramic wire wound element).