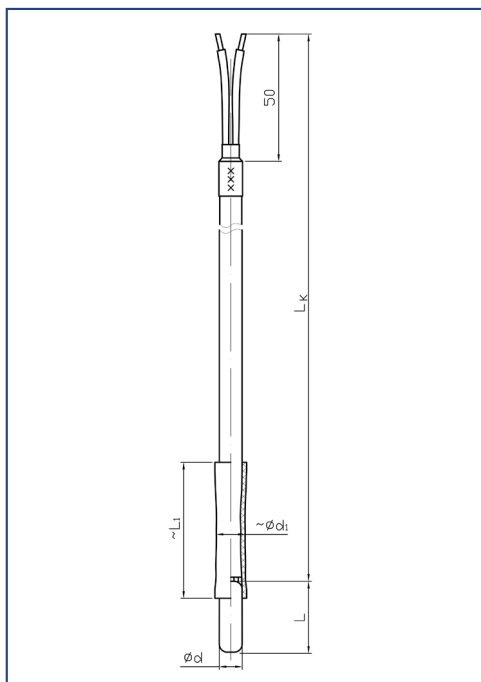


TOP-OP-31

Thermometer-resistor Pt100 Simple



Thermometer-resistor Pt100 TOP-OP-31 is the easiest example of Resistance thermometer for very precise temperature measurement of various environment. Limits are only:

- temperature range, depending on connecting cable insulation
- mechanical endurance of ceramic body of resistor.

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	

Resistor dimensions d x L
specify in mm, acc. to catalog card – <i>RTD Elements</i>

Shrinking tube dimensions (approx) d ₁ x L ₁
specify in mm (depends on measuring element and cable)

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

Non-standard models available.

Ordering Information

TOP-OP-31	A	B	C	D	E	F	G	H
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A Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

C 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)

D Resistor dimensions d x L	
	specify in mm, acc. to catalog card – <i>RTD Elements</i>

E Shrinking tube dim. d₁ x L₁ (approx)	
	specify in mm

F Cable length L_k	
	specify in mm

G Operating temperature	
	specify in °C

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

Ordering Example

TOP-OP-31-1xPt100-A-3p-L4GGD-2,5x30-3,5x60-6000-Z

stands for: Thermometer-resistor 1xPt100 class A, configuration 3-wire, cable type L4GGD, resistor OP-A2 (2,5x30), shrinking tube dimensions 3,5x60, cable length L_k=6000 mm, standard sensor version (ceramic wire wound element).