

Temperature sensor TJ-1

Temperature sensor TJ-1 is suitable to measure the surface temperature of various machines and their modules. Protection tube immersion depth, diameter, material and measurement insert parameters are customizable.

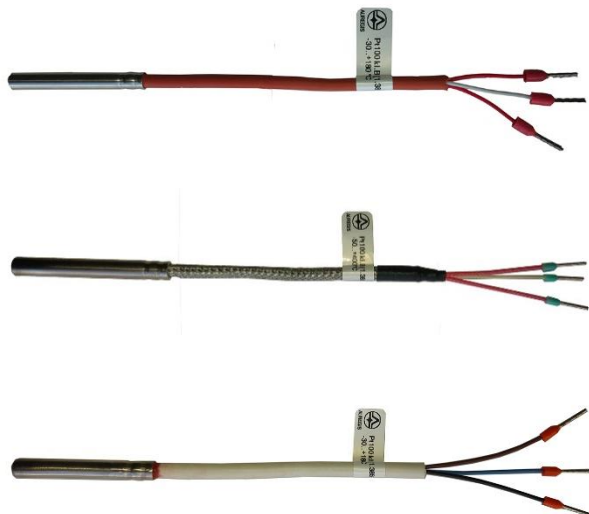
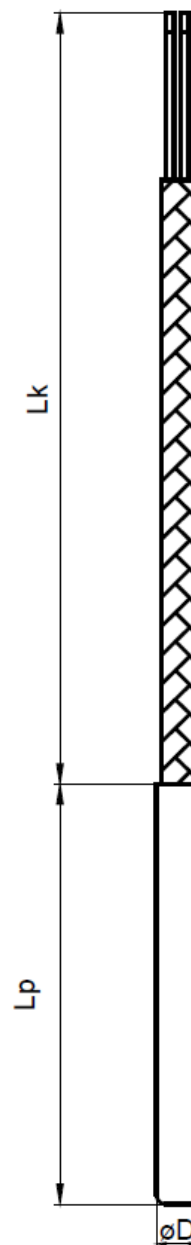
Technical information

Dimensions and threads

Diameter D, mm	Length Lp, mm	Steel grade EN
4	30...1000	1.4301
5	50...1000	
6	50...3000	1.4301, 1.4404
8	30...3000	1.4301, 1.4404
10		1.4301, 1.4404
12		1.4301
14		1.4301
15		1.4301

Temperature sensors

Pt	Ni	NTC	PTC	Termocouple
Pt100 Pt1000	Ni100 Ni120 Ni1000	10k	PTC1000 PTC2000 KTY81/110 KTY81/210	K J L N S T B E N



Temperature sensor TJ-1

Product code

1		Sensing element quantity	
		no designation	Single Pt100/B, K, J...
2		2	Double Pt100, K, J...
		Sensing element	
		Pt100	Pt100
		Pt1000	Pt1000
		K	K type thermocouple
		J	J type thermocouple
		PTC1000	PTC 1000 Ohm (KTY 81 series)
		NTC10000	NTC 10k Ohm
		Ni1000	Ni1000 (5000), Ni1000 (6180)
			other parameters acc. to requirements
3		Accuracy	
		A or B	for measuring resistor (Pt100 and Pt1000)
		1 or 2	for thermocouple
4		Protection tube diameter, ϕD	
		4	$\phi 4$ mm
		5	$\phi 5$ mm
		6	$\phi 6$ mm
		8	$\phi 8$ mm
		10	$\phi 10$ mm
			other parameters acc. to requirements
5		Protection tube length, L_p	
		30	30 mm
		50	50 mm
6		Protection tube material	
		304	Stainless steel 1.4301 (AISI 304)
		316L	Stainless steel AISI 1.4404 (AISI 316L)
7		Measurement circuit (for resistor)	
		2	2-wire
		3	3-wire
		4	4-wire
8		Lead wire type	
		PVC	PVC -30...105 °C
		S	Silicon -50...180 °C
		T	Teflon -50...250 °C
		G	Fiberglass -50...400 °C
9		Lead wire length, L_k	
		1	1 m
		3	3 m
		other parameters acc. to requirements	

		1	2		3		4		5		6		7	8	9
TJ-1	-			/		-		x		-		-			

E.g.: TJ-1-PT100/B-5x50-304-3S3

Temperature sensor TJ-1 with Pt100 class B sensor, protection tube $\phi 5 \times 50$ mm, protection tube material 1.4301, measuring circuit 3-wire, lead wire type S (temperature range $-50 \div 180$ °C), lead wire length 3 m.