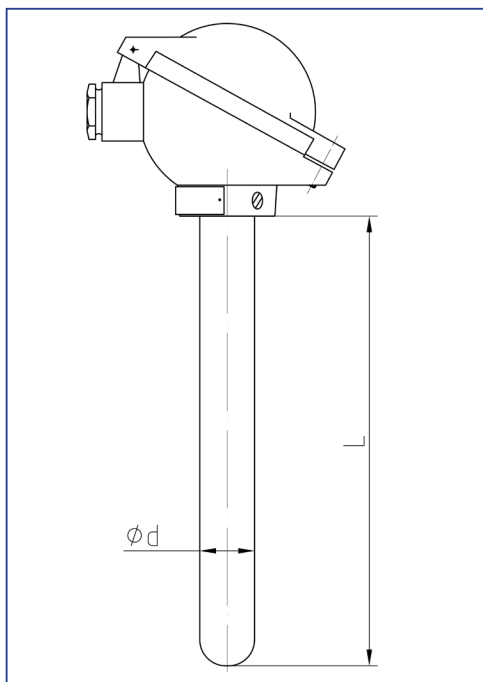


TER-P-10

Straight Thermocouple (Type J, K) with heat resistant protective tube



Straight thermocouple TER-P-10 has been designed for precision measurement of temperature in range limits from -40°C to $+1200^{\circ}\text{C}$, depending on kind of thermocouple and suitable protection tube material.

It is employed mainly for measurement of high temperature of gas and liquid process fluids. Thermowell is made of heat resistant steel.

Type	Execution
TER-P-10	Basic - acc to catalog card
TER-P-10/Exi	Intrinsic safe – acc to Atex
TER-P-10/Exe	Increased safety – acc to Atex

Technical specification

Sensor insert		Version	Temp. range - Class 1	Characteristic	Junction
Basic	1xFe-CuNi (J), 2xFe-CuNi (J)	$\phi 3$	$-40^{\circ}\text{C}..+700^{\circ}\text{C}$ $-40^{\circ}\text{C}..+1000^{\circ}\text{C}$	acc. EN 60584-1	ungrounded
	1xNiCr-NiAl (K), 2xNiCr-NiAl (K)				
Sheathed	1xFe-CuNi (J), 2xFe-CuNi (J)	$\phi 6, \phi 8$	$-40^{\circ}\text{C}..+800^{\circ}\text{C}$ $-40^{\circ}\text{C}..+1200^{\circ}\text{C}$		grounded
	1xNiCr-NiAl (K), 2xNiCr-NiAl (K)				

Protect. tube diam. d	Material acc. DIN/AISI	Max operating temp.	Connection head	Transmitter
$\phi 20, \phi 22$	1.4841 / 314	$+1150^{\circ}\text{C}$	on request (e.g. DAA, DANA, DANAW)	on request
$\phi 19.1, \phi 22$	Kanthal AF	$+1400^{\circ}\text{C}$		

Non-standard models available.

Ordering Information

TER-P-10	A	B	C	D	E	F	G	H	I	J
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A Execution	
U	with non-replaceable insert
PS	with replaceable insert
PS/Exi	Intrinsic safe with replaceable insert
PS/Exe	Increased safety with replaceable insert

B Type of thermocouple	
1xJ	Single Fe-CuNi
2xJ	Double Fe-CuNi
1xK	Single NiCr-NiAl
2xK	Double NiCr-NiAl

C Insert diameter	
6	d= 6 mm
8	d= 8 mm

D Protection tube diameter	
19,1	d= 19,1 mm
20	d= 20 mm
22	d= 22 mm

E Protection tube length L	
	specify in [mm]

F Protection tube material	
1.4841	1.4841 / 314
Kanthal	Kanthal AF

G Connection head	
	specify head type

H Junction	
O	ungrounded
Z	grounded

I Operating temperature	
	specify in °C

J Transmitter	
	specify type and temp. range in °C

Ordering Example

TER-P-10-PS-1xK-6-20-400-1.4841-DAN-O-1000

stands for: Straight thermocouple with replaceable insert, thermoelement type 1 x NiCr-NiAl, insert diameter, $\varnothing 6$ mm, protection tube diameter $\varnothing 20$ mm, immersion length L=400 mm, material 1.4841, connection head type DAN, junction ungrounded, operating temperature up to 1000°C, w/o transmitter.