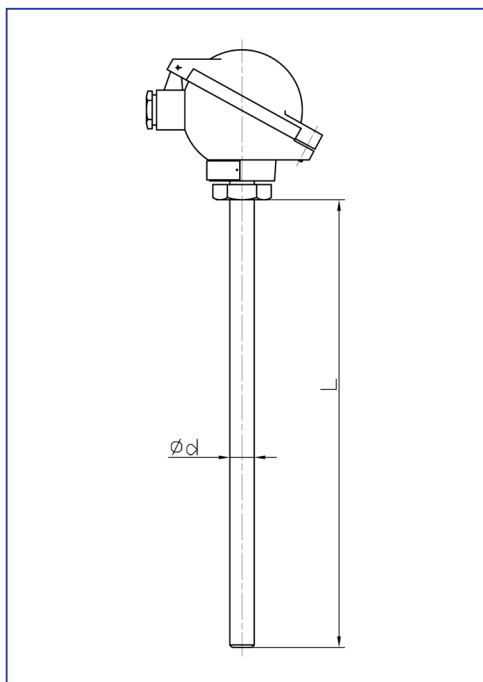


TER-PD-54

Straight Thermocouple (Type J, K, N) with sheathed thermo-element

Straight thermocouple type TER-PD-54 is aimed for temperature measurement of gases and liquids in range -40°C to +1000°C. Thanks to sheathed sensor, thermocouple may be bent and is highly mechanically and chemically resistant.



Type	Execution
TER-PD-54	Basic - acc to catalog card
TER-PD-54/ExiM1	Intrinsic for mining purposes – acc to Atex
TER-PD-54/Exi	Intrinsic – acc to Atex
TER-PD-54/Exe	Increased safety – acc to Atex

Technical specification

Sheathed sensor insert	Temp. range - Class 1	Characteristic	Junction
1xFe-CuNi (J), 2xFe-CuNi (J)	-40°C..+800°C	acc. EN 60584-1	ungrounded
1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	-40°C..+1000°C		grounded
1xNiCrSi-NiSiMg(N), 2xNiCrSi-NiSiMg (N)	0°C..+1100°C (- 270°C..+1300°C)*		

*short term

Sheathed thermo-element diameter d [mm]	Material acc. DIN/AISI	Sensor length L [mm]
Ø3, Ø4.5, Ø6	2.4816 / Inconel 600	on request

Connection head	Transmitter	Threaded compression fitting type UZG-47
on request (e.g. NA, DANA, DANAW)	on request	on request, acc. to catalog card – UZG-47

Non-standard models available.

Ordering Information

TER-PD -54	A	B	C	D	E	F	G	H	I
------------	----------	----------	----------	----------	----------	----------	----------	----------	----------

A Execution	
-	Basic
/ExiM1	Intrinsic safe for mining purposes
/Exi	Intrinsic safe
/Exe	Increased safety

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

C Junction	
O	ungrounded
Z	grounded

D Sheathed thermo-element diameter d	
3	d= 3 mm
4,5	d= 4,5 mm
6	d= 6 mm

E Sensor length L	
	specify in [mm]

F Sheathed thermo-element material	
2.4816	2.4816 / Inconel 600
	specify other material

G Connection head	
	specify head type

H Operating temperature	
	specify in °C

I Transmitter	
	specify type and temp. range in °C

Ordering Example

TER-PD-54-2xK-O-3-200-2.4816-NA-400

stands for: Straight thermocouple, basic execution, with sheathed thermo-element 2xNiCr-NiAl, ungrounded, sheath diameter ø3 mm, length L=200 mm, sheath material 2.4816, connection head NA, operating temp. 400°C, w/o transmitter.