



THERMOCOUPLE STRAIGHT (J, K, N) with sheathed thermoelement Type TER- PD-54

Straight thermocouple type TER-PD-54 is aimed for temperature measurement of gases and liquids in range -40°C to $+1000^{\circ}\text{C}$. Thanks sheathed sensor, thermocouple may be bended and is highly mechanically and chemically resistant.

Model	Execution
I	With additional protection tube
II	Without additional protection tube
I/Exi	Intrinsic safe with additional protection tube
II/Exi	Intrinsic safe without additional protection tube

THERMOCOUPLE SPECIFICATION

Sheathed sensor insert	Temp. range - Class 1
1xFe-CuNi (J), 2xFe-CuNi (J)	$-40^{\circ}\text{C}..+800^{\circ}\text{C}$
1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	$-40^{\circ}\text{C}..+1000^{\circ}\text{C}$
1xNiCrSi-NiSiMg(N), 2xNiCrSi-NiSiMg(N)	$0^{\circ}\text{C}..+1100^{\circ}\text{C}$ (* $-270^{\circ}\text{C}..+1300^{\circ}\text{C}$)

* - short term

Sheathed thermoelement

Diameter d [mm]	Material	Length L
$\varnothing 3, \varnothing 4,5, \varnothing 6$	inconel	as per client request

Additional outer protection tube

Diameter d / d ₁ [mm]	Material	Length l [mm]
$\varnothing 3 / 6, \varnothing 4,5 / 8, \varnothing 6 / 10$	1.4841	as per client request

Connection head

Type	Max. operating temp.	Material
B	$+100^{\circ}\text{C}$	Al
NA, DAN (with silicone seal)	$+150^{\circ}\text{C}$	

Characteristic
wg PN-EN 60584-1

Junction
ungrounded or grounded

Transmitter
on request

Threaded compression fitting type UZG-47
on request

NOTE: Non-standard models available

Ordering Information

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

A. Execution		A
	With additional protection tube	I
	Without additional protection tube	II
	Intrinsic safe with additional protection tube	I/Exi
	Intrinsic safe without additional protection tube	II/Exi
B. Type of thermocouple		B
	1xFe-CuNi	1xJ
	2xFe-CuNi	2xJ
	1xNiCr-NiA	1xK
	2xNiCr-NiAl	2xK
	1xNiCrSi-NiSiMg	1xN
	2xNiCrSi-NiSiMg	2xN
C. Junction		C
	ungrounded	O
	grounded	Z
D. Sheath diameter d		D
	Ø 3 mm	3
	Ø 4,5 mm	4,5
	Ø 6 mm	6
E. Additional protection tube diameter d₁		E
	Ø 6 mm	6
	Ø 8 mm	8
	Ø 10 mm	10
F. Sensor length L		F
	L	specify in mm
G. Protection tube length l		G
	l	specify in mm
H. Connection head		H
	NA (up to +100°C)	N1
	NA (up to +150°C)	N2
	DAN (up to +100°C)	DAN1
	DAN (up to +150°C)	DAN2
	B	B
I. Thermocouple operating temperature		I
	T	specify in °C
J. Transmitter		J
		specify type and range in °C

Ordering Example

TER-PD-2xK-54-II-O-3-200-N2-400

stands for: **Straight thermocouple without additional protection tube, with sheathed thermoelement 2xNiCr-NiAl, ungrounded, sheath diameter ø3 mm, length L=200 mm, connection head NA up to +150°C, operating temp. 400°C, w/o transmitter.**