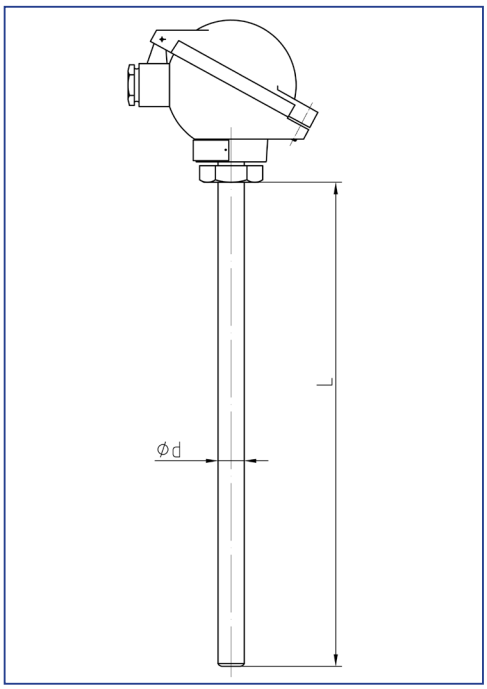
TER-PD-07



Straight Thermocouple (Type J, K, N)

Straight thermocouple TER-PD-07 measure precisely temperature from -40°C to +1100°C; temperature limits depend on kind of thermocouple and thermowell applied. They are applicable mainly for measurement of temperature of process fluids in cases where good dynamic is a primary target. Protection tube is made of stainless steel.

Thermometer could be provided with clamp connection UZG-47.

Type	Execution
TER-PD-07	Basic - acc to catalog card
TER-PD-07/ExiM1	Intrinsic safe for mining purposes – acc to Atex
TER-PD-07/Exi	Intrinsic safe – acc to Atex
TER-PD-07/Exe	Increased safety – acc to Atex

Technical specification

Sheathed sensor insert	Version	Temp. range - Class 1	Characteristic	Junction
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K) 1xNiCrSi-NiSiMg(N), 2xNiCrSi-NiSiMg (N)	ø 3	-40°C..+500°C -40°C..+700°C 0°C..+1100°C (- 270°C..+1300°C**)	acc. EN 60584-1	ungrounded
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K) 1xNiCrSi-NiSiMg(N), 2xNiCrSi-NiSiMg (N)	ø 6	-40°C..+600°C -40°C..+800 (+1000*)°C 0°C..+1100°C (- 270°C..+1300°C**)		grounded

* upper temp. depends on measuring conditions and temp. changes; **short term

Protect. tube diam. d	Material acc. DIN/AISI	Max operating temp.
ø4, ø5, ø6, ø8, ø9, ø10, ø11, ø12, ø15	1.4571 / 316Ti	+700°C
ø10	1.4841 / 314	+1100°C
ø10, ø11, ø15	1.7335 / A182 Grade F11	+550°C
ø12, ø13,7	2.4602 / Hastelloy C22	+600°C

Connection head	Transmitter
on request (e.g. NA, DANA, DANAW, MA)	on request

Threaded compression fitting type UZG-47
on request, acc. to catalog card – ***UZG-47***

Non-standard models available.

ALF-SENSOR Sp. J.
seat: ul. Narcyzowa 3, 31-342 Kraków
manufacturing plant: ul. Krakowska 294, 32-080 Zabierzów
Phone: (+48) 12 258 08 40 | Fax: (+48) 12 258 08 48 | E-mail: office@alf-sensor.com

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Ordering Information

TER-PD -07	A	B	C	D	E	F	G	H	I

A	Execution
U	with non-replaceable insert
PS	with replaceable insert
PS/ExiM1	Intrinsic safe for mining purposes 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
1xN	Single NiCrSi-NiSiMg
2xN	Double NiCrSi-NiSiMg

C	Protection tube diameter
4	d= 4 mm
5	d= 5 mm
6	d= 6 mm
8	d= 8 mm
9	d= 9 mm
10	d= 10 mm
11	d= 11 mm
12	d= 12 mm
13,7	d= 13,7 mm
15	d= 15 mm

D	Protection tube length L
	specify in [mm]

E	Protection tube material
1.4571	1.4571 / 316Ti
1.4841	1.4841 / 314
1.7335	1.7335 / A182 Grade F11
2.4602	2.4602 / Hastelloy C22

F	Connection head
	specify head type

G	Junction
O	ungrounded
Z	grounded

H	Operating temperature
	specify in °C

I	Transmitter
	specify type and temp. range in °C

Ordering Example

TER-PD-07-PS-1xJ-9-750-1.4571-NA-O-600

stands for: Thermocouple with replaceable insert, with single sensor 1xFe-CuNi, protection tube diameter ø 9 mm and length L=750 mm, protection tube material 1.4571, connection head type NA, ungrounded, operating temperature up to 600°C.

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Phone: (+48) 12 258 08 40 | Fax: (+48) 12 258 08 48 | E-mail: office@alf-sensor.com

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