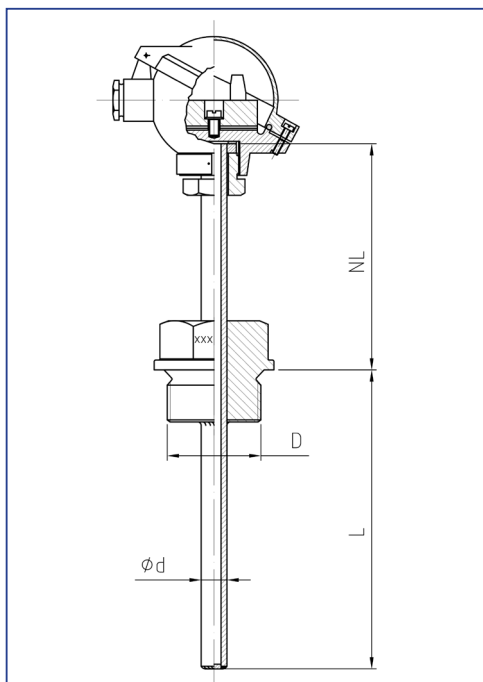


TER-PKG-08

Straight Thermocouple (Type J, K, N) with process connection fitting



Straight thermocouple with process connection fitting and extension tube TER-PKG-08 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.

Type	Execution
TER-PKG-08	Basic - acc to catalog card
TER-PKG-08/ExiM1	Intrinsic safe for mining purposes – acc to Atex
TER-PKG-08/Exi	Intrinsic safe – acc to Atex
TER-PKG-08/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

Process connection thread D
on request (e.g. M20x1,5, M24x1,5, G1/2", G3/4", 1/2"NPT, 3/4"NPT)

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

Non-standard models available.

Ordering Information

TER-PKG -08

A

B

C

D

E

F

G

H

I

J

K

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]
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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 Process connection thread D

	specify type of thread
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G Neck tube length NL

	specify in [mm]
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H Connection head

	specify head type
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I Junction

O	ungrounded
Z	grounded

J Operating temperature

	specify in °C
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K Transmitter

	specify type and temp. range in °C
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Ordering Example

TER-PKG-08-PS-1xJ-6-150-1.4571-M20x1,5-145-NA-O-500-MESO-H (0-500)

stands for: Thermocouple with replaceable insert, with single sensor 1 x Fe-CuNi, protection tube diam. $\phi 6$ mm and length L=150 mm, tube material 1.4571, process connection M20x1.5, neck tube length NL=145 mm, connection head type NA, ungrounded, operating temp. up to 500 °C, temperature transmitter type MESO-H for range 0-500 °C.