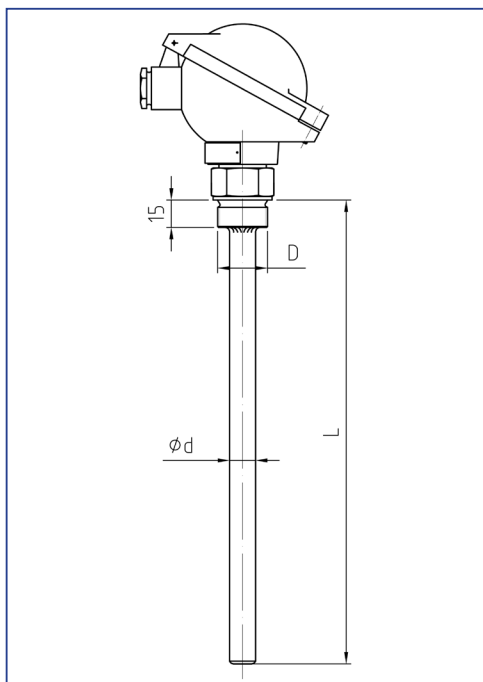


TER-PKG-157

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

Thermocouple type TER-PKG-157 has been designed for temperature measurement in industry instruments, pipelines, high pressure containers in gases and liquids temp. ranges from -40°C to +1000°C.



Type	Execution
TER-PKG-157	Basic - acc to catalog card
TER-PKG-157/ExiM1	Intrinsic safe for mining purposes – acc to Atex
TER-PKG-157/Exi	Intrinsic safe – acc to Atex
TER-PKG-157/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.
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)	on request

Non-standard models available.

Ordering Information

TER-PKG-157	A	B	C	D	E	F	G	H	I	J
-------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

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 d	
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 Immersion 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 Process connection thread D	
	specify type of thread

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-PKG-157-PS/Exi-1xK- 8-400-M20x1,5-1.4571-NA-O

stands for: Thermocouple, Intrinsic safe with replaceable insert, with thermo-element 1xNiCr-NiAl, with protection tube diameter d=ø8 mm, length L=400 mm, thread M20x1,5, tube material 1.4571, connection head NA, ungrounded, w/o transmitter.