



## THERMOCOUPLE STRAIGHT with process connection fitting Type TER- PKG-157

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.

Model	Execution	Insert type	Length L
U	with non-replaceable insert	non-replaceable	as per client request
PS	with replaceable insert	WP-TE-02	
PS/Exi	Intrinsic safe with replaceable insert		

### THERMOCOUPLE SPECIFICATION

Sheathed sensor insert		Temp. range - Class 1
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	Ø 3	-40°C..+500°C -40°C..+700°C
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	Ø 6	-40°C..+600°C -40°C..+800 (+1000*)°C

\* upper temperature depends on measuring conditions and temperature changes

### Protection tube

Diameter d	Max. operating temp.	Material acc. WNr / DIN	Material acc. ASTM / AISI
Ø6, Ø8, Ø9, Ø10, Ø11, Ø12, Ø15	+700°C	1.4571	316 Ti
Ø10	+1100°C	1.4841	314
Ø10, Ø11, Ø15	+550°C	1.7335	A182 Grade F11
Ø13,7	+600°C	Hastelloy C22	A576 Grade 1020

### Connection head

Type	Max. operating temp.	Material
B	+100°C	Al
NA (with silicone seal)	+150°C	

Characteristic
acc. PN-EN 60584-1

Process connection fitting
M27x2 M20x1,5 G1/2" G3/4" G1"

Junction
Ungrounded or grounded

Transmitter
on request

**NOTE: Non-standard models available**

## Ordering Information

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

<b>A. Execution</b>		<b>A</b>
	with non-replaceable insert	U
	with replaceable insert	PS
	Intrinsic safe with replaceable insert	PS/Exi
<b>B. Type of thermocouple</b>		<b>B</b>
	1xFe-CuNi	1xJ
	2xFe-CuNi	2xJ
	1xNiCr-NiA	1xK
	2xNiCr-NiAl	2xK
<b>C. Protection tube diameter</b>		<b>C</b>
	Ø 6 mm	6
	Ø 8 mm	8
	Ø 9 mm	9
	Ø 10 mm	10
	Ø 11 mm	11
	Ø 12 mm	12
	Ø 13,7 mm	13,7
	Ø 15 mm	15
<b>D. Protection tube length</b>		<b>D</b>
	L	specify in mm
<b>E. Protection tube material</b>		<b>E</b>
	1.4571	1.4571
	1.4841	1.4841
	1.7335	1.7335
	Hastelloy C22	C22
<b>F. Process connection fitting</b>		<b>F</b>
	M27x2	M27x2
	M20x1,5	M20x1,5
	G 1/2	G 1/2
	G 3/4	G 3/4
	G 1	G 1
<b>G. Connection head</b>		<b>G</b>
	NA (up to +100°C)	N1
	NA (up to +150°C)	N2
	B	B
<b>H. Junction</b>		<b>H</b>
	Ungrounded	O
	Grounded	Z
<b>I. Transmitter</b>		<b>I</b>
		specify type and range in °C

## Ordering Example

**TER-PKG-157-PS/Exi-1xK- 8-400-M20x1,5-1.4571-N1-O**

stands for: **Thermocouple with Intrinsic safe with replaceable insert, with thermoelement 1xNiCr-NiAl, with protection tube diameter ø8 mm, length 400 mm, thread M20x1,5, tube material 1.4571, connection head NA up to 100°C, ungrounded , w/o transmitter.**