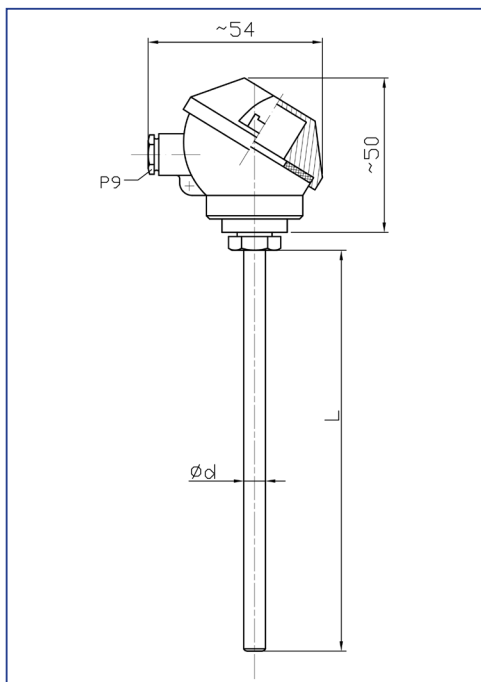


TER-Pdm-142

Sheathed Thermocouple Miniature



Straight miniature thermocouple type TER-Pdm-142 is for precise temperature measurement of gases and liquids. in the range of -40°C to +1000°C. Sheathed thermo-element is mounted to MA connection head.

Thermometer can be provided with clamp connection UZG-47.

Type	Execution
TER-Pdm-142	Basic - acc to catalog card
TER-Pdm-142/Exi	Intrinsic safe – acc to Atex

Technical specification

Sheathed sensor insert	Temp. range - Class 1	Characteristic	Junction
1xFe-CuNi (J), 2xFe-CuNi (J)	-40°C...+700°C	acc. EN 60584-1	ungrounded
1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	-40°C...+1000°C		grounded

Sheathed protection tube diam. d [mm]	Material acc. DIN/AISI	Immersion length L [mm]
ø3, ø4.5, ø6	2.4816/Inconel 600	on request

Connection head	Max operating temp.	Transmitter	Medium	Response Time $T_{0.5}$
MA	+100°C	on request (max ø25x20 mm)	Water	0,5 ÷ 2,5 sec

Threaded compression fitting type UZG-47

on request, acc. to catalog card – UZG-47

Non-standard models available.

Ordering Information

TER-Pdm-142	A	B	C	D	E	F	G	H
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A Execution	
-	Basic
/Exi	Intrinsic safe

B Type of thermocouple	
1xJ	Single Fe-CuNi
2xJ	Double Fe-CuNi
1xK	Single NiCr-NiAl
2xK	Double NiCr-NiAl

C Junction	
O	ungrounded
Z	grounded

D Sheathed protection tube diameter d	
3	d= 3 mm
4,5	d= 4,5 mm
6	d= 6 mm

E Immersion length L	
	specify in [mm]

F Connection head	
MA	MA

G Operating temperature	
	specify in °C

H Transmitter (max space ø25x20 mm)	
	specify type and temp. range in °C

Ordering Example

TER-Pdm-142/Exi-1xK-O-3-250-MA-400

stands for: Thermocouple miniature, straight, intrinsic safe, with sheathed thermo-element 1xNiCr-NiAl, ungrounded, sheath diameter ø3 mm, length L=250mm, connection head type MA, operating temp up to 400°C.