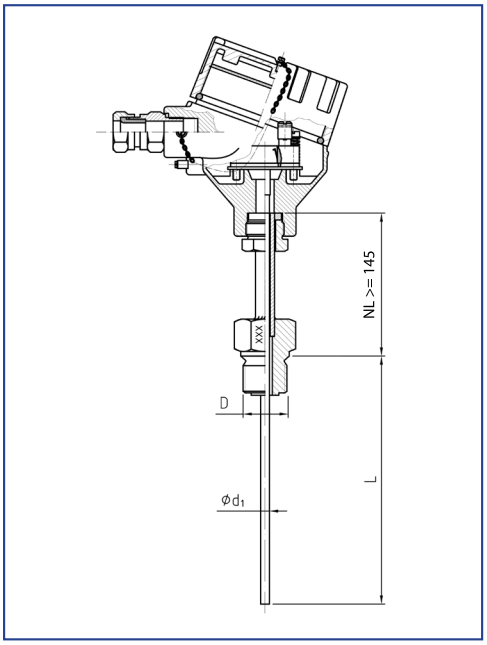
TER-Exd-PKGz-238



Thermocouple
Flame-proof acc. to ATEX
for mounting into existing thermowell

Thermocouple type TER-Exd-PKGz-238 Ex signed II 2 G Ex db IIC T* Gb has been designed for temperature measurement in explosion zone 1 or 2 of gases area and can work with non-intrinsic safe wire configuration.

Thermocouple type TER-Exd-PKGz-238 Ex signed II 1/2 D Ex ta IIIC T*°C Da/Db for use in dust area with non-intrinsic safe wire configuration.

Thermocouple is dedicated for mounting into existing thermowell in the installation.

Connection head is optionally equipped with 1 or 2 cable inserts, and with terminal block or transmitter.

Technical specification

Sheathed sensor insert	Temp. range - Class 1	Characteristic	Junction
1xFe-CuNi (J), 2xFe-CuNi (J)	-40°C..(+750°C)*	wg EN 60584-1	Ungrounded
1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	-40°C..(+1000°C)*		
1xCu-CuNi(T), 2xCu-CuNi(T)	-40°C..(+350°C)*		
1xNiCrSi-NiSiMg(N), 2xNiCrSi-NiSiMg(N)	-40°C..(+1000°C)*		
1xNiCr-CuNi(E), 2xNiCr-CuNi(E)	-40°C..(+900°C)*		

* upper temperature is limited by work environment and protection tube material

Sheathed insert diameter d_1 [mm]	Length L [mm]	Process connection thread D
ø 6, ø 8	on request (max L up to 2000 mm)	on request (e.g. M12x1,5; M14x1,5; M16x1,5; M18x1,5; M20x1,5; M24x1,5; M27x2; M33x3; G1/2"; G3/4"; G1"; 1/2"NPT; 3/4"NPT; 1"NPT)

Connection head	Temp. range (depends on connection head sealing)	Cable gland thread	Purpose	Transmitter
XD-AHH; XD-AD; XD-ADwin; XD-AHwin; XD-SD; XD-SB; XD-SH	-50°C..+150°C (o-ring silicon); -50°C..+85°C (o-ring silicon with hole); -20°C..+200°C (o-ring fluoroelastomer)	Typ 501/421	for basic cables	w/o transmitter (with terminal block) or with transmitter
		Typ 501/453	for armored cable	

Non-standard models available.

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Ordering Information

TER-Exd-PKGz-238	A	B	C	D	E	F	G	H	I	J	K

A Type of thermocouple

1xJ	Single Fe-CuNi
2xJ	Double Fe-CuNi
1xK	Single NiCr-NiAl
2xK	Double NiCr-NiAl
1xT	Single Cu-CuNi
2xT	Double Cu-CuNi
1xN	Single NiCrSi-NiSiMg
2xN	Double NiCrSi-NiSiMg
1xE	Single NiCr-CuNi
2xE	Double NiCr-CuNi

B Sheathed insert diameter d_1

6	d_1 = 6 mm
8	d_1 = 8 mm

C Length L (max L up to 2000 mm)

	specify in [mm]

D Process connection fitting material

1.4571	1.4571 / 316Ti
1.4841	1.4841 / 314
2.4602	2.4602 / Hastelloy C22
	specify other material

E Process connection thread D

	specify type of thread

F Neck tube length NL (NL>=145 mm)

	specify in [mm]

G Connection head

	specify head type

H Cable gland (flameproof)

1x 501/421	1x type 501/421
2x 501/421	2x type 501/421
1x 501/453	1x type 501/453
2x 501/453	2x type 501/453

I Operating temperature

	specify in °C

J Transmitter

	specify type and temp. range in °C

K Explosion Zone

Zone 1	Non-intrinsic safe circuit
Zone 20/21	Non-intrinsic safe circuit

Ordering Example

TER-Exd-PKGz-238-1xK-8-1000-1.4571-M20x1,5-145-XD-AD-1x501/421-400

stands for: Thermocouple flame-proof, 1xNiCr-NiAl, sheath diameter ø8 mm, length L=1000mm, material 1.4571, thread M20x1,5, neck tube length NL=145mm, connection head type XD-AD, cable insert 1 x type 501/421, operating temp up to 400°C, w/o transmitter.

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