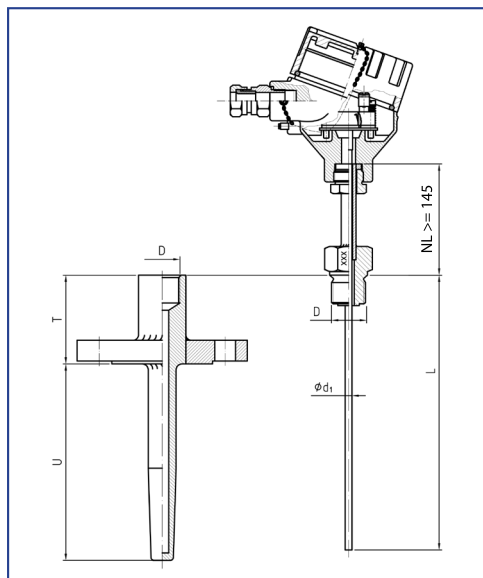


TOP-Exd-PKG/PF-237



Resistance Thermometer Pt100 Flame-proof acc. to ATEX with flanged thermowell

Resistance thermometer type TOP-Exd-PKG/PF-237 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.

Resistance thermometer type TOP-Exd-PKG/PF-237 signed II 1/2 D Ex ta IIIC T*°C Da/Db for use in dust area with non-intrinsic safe wire configuration.

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

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire configuration
1xPt100, 1xPt500, 1xPt1000 / 2xPt100, 2xPt500, 2xPt1000	standard / *shockproof	acc. EN-60751	-200°C...+600°C / *(-70°C...+500°C) -100°C...+450°C / *(-50°C...+300°C) -50°C...+250°C / *(0°C...+150°C)	B A 1/3B DIN (AA)	8 mA 5 mA 3 mA	2, 3, 4 wire 3, 4 wire

Sheathed insert diameter d ₁ [mm]	Length L [mm]	Flanged process connection of additional thermowell	Process connection thread D
ø 6, ø 8	on request (max L up to 1100 mm)	on request (e.g. DN25 PN40 B1 acc. DIN1092-1; 2"150 RF acc. ASME B16,5)	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 Typ 501/453	for basic cables for armored cable	w/o transmitter (with terminal block) or with transmitter

Additional thermowell
on request, acc. to catalog card – THERMOWELLS for thermometers and thermocouples

Non-standard models available.

Ordering Information

TOP-Exd-PKG/PF-237	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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A Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100
1xPt500	Single Pt500
2xPt500	Double Pt500
1xPt1000	Single Pt1000
2xPt1000	Double Pt1000

B Class	
B	B
A	A
1/3B	1/3B DIN (AA)

C Lead wire configuration	
2p	2-wire
3p	3-wire
4p	4-wire

D Sheathed insert diameter d_i	
6	$d_i = 6 \text{ mm}$
8	$d_i = 8 \text{ mm}$

E Length L (max L up to 2000 mm)	
	specify in [mm]

F Process connection fitting material	
1.4571	1.4571 / 316Ti
1.4841	1.4841 / 314
2.4602	2.4602 / Hastelloy C22

G Process connection thread D	
	specify type of thread

H Neck tube length NL (NL $\geq$ 145 mm)	
	specify in [mm]

I Additional thermowell flange	
	specify type

J Connection head	
	specify head type

K 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

L Operating temperature	
	specify in $^{\circ}\text{C}$

M Transmitter	
	specify type and temp. range in $^{\circ}\text{C}$

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

O Additional thermowell (option)	
TW	acc. to catalog card – THERMOWELLS

Ordering Example

TOP-Exd-PKG/PF-237-1xPt100-A-3p-6-600-1.4571-G1/2-145-DN25PN40B1-XD-AD-1x501/421-TW

stands for: Resistance thermometer flame-proof, with single resistor class. A, config 3-wire, sheath diam. $\phi 6 \text{ mm}$, length L=600mm, material 1.4571, process connection fitting G1/2", neck tube length NL=145mm, t-well flange DN25PN40 form B1, neck tube length NL=145mm, connection head XD-AD, cable insert 1 x typ 501/421, w/o transmitter, with additional thermowell