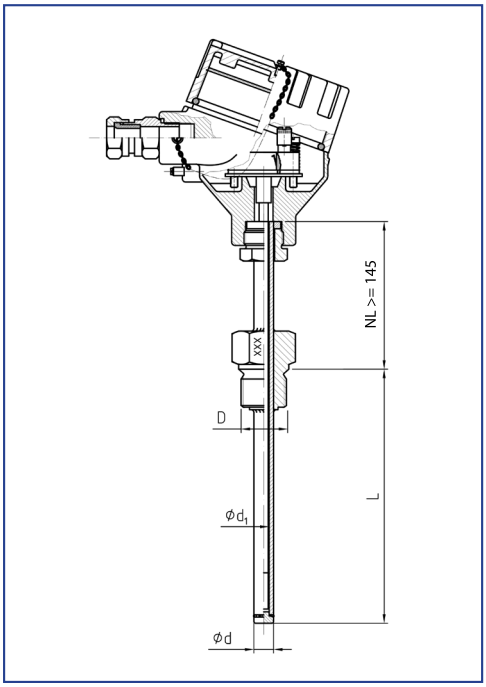
TOP-Exd-PKG-230



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

Resistance thermometer type TOP-Exd-PKG-230 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-230 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)	B	8 mA	2, 3, 4 wire
			-100°C..+450°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
			-50°C..+250°C / *(0°C..+150°C)	1/3B DIN (AA)	3 mA	

Protection tube diameter d [mm]	Material	Immersion length L [mm]	Process connection thread D
ø10x1,5 ; ø11x2 ; ø12x1,5 ; ø12x2,5 ; ø13.5x2,3 ; ø15x3	stainless steel, acid resistant steel, heat-resisting steel, boiler steel, alloy steel	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.

ALF-SENSOR Sp. J.
seat: ul. Narcyzowa 3, 31-342 Kraków
manufacturing plant: ul. Krakowska 294, 32-080 Zabierzów
Phone: (+48) 12 258 08 40 | Fax: (+48) 12 258 08 48 | E-mail: office@alf-sensor.com

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Ordering Information

TOP-Exd-PKG-230	A	B	C	D	E	F	G	H	I	J	K	L	M	N

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_1
6	d_1= 6 mm
8	d_1= 8 mm

E	Protection tube diameter d
10	d= 10x1,5 mm
11	d= 11x2 mm
12	d= 12x1,5 mm
13,5	d= 13,5x2,3 mm
15	d= 15x3 mm
	or bigger (minimal wall thickness 1,5 mm)

F	Immersion length L (max L up to 2000 mm)
	specify in [mm]

G	Protection tube material
1.4571	1.4571 / 316Ti
1.4841	1.4841 / 314
2.4602	2.4602 / Hastelloy C22

H	Process connection thread D
	specify type of thread

I	Neck tube length NL (NL>=145 mm)
	specify in [mm]

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 °C

M	Transmitter
	specify type and temp. range in °C

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

Ordering Example

TOP-Exd-PKG-230-1xPt100-A-3p-6-10-1500-1.4571-M20x1,5-145-XD-AD-1x501/421

stands for: Resistance thermometer, flame-proof, with threaded fitting, with single resistor class. A, configuration 3-wire, sheath diameter ø6, protection tube diameter ø10 mm, length L=1500mm, material 1.4571, thread M20x1,5, neck tube length NL=145 mm, connection head type XD-AD, cable insert 1 x type 501/421, w/o transmitters.

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