



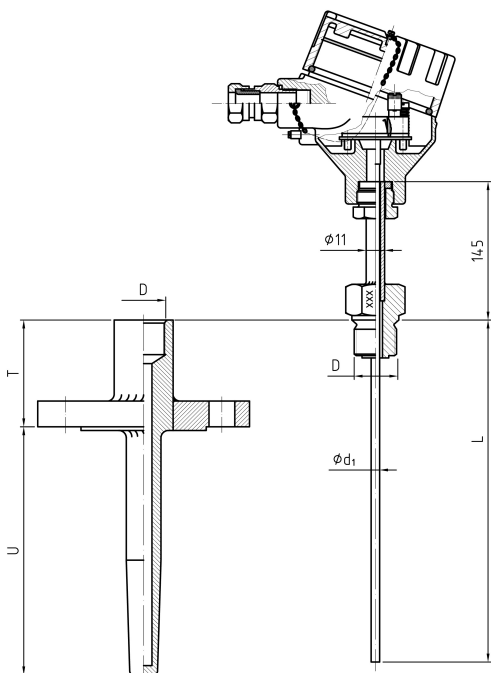
RESISTANCE THERMOMETER

Flame-proof

acc. to ATEX - KDB 04 ATEX022X

with additional flanged protection tube

Type TOP-Exd-PKG/PF-237



Thermocouple type TOP-Exd-PKG/PF-237 signed Ex II 1/2 G Exd i_a/i_b IIA/IIB/IIC T6/T5 has been designed for temperature measurement in all explosion zones of gases, streams, fogs and dusts. In zone 0 can be only protection tube. Connection head can be only in zones 1 or 2. Limit between zones is threaded fitting and inside flame-proof protection tube can be placed only measuring insert, working in intrinsic safe wire configuration i_a or i_b .

Thermocouple type TOP-Exd-PKG/PF-237 signed Ex II 2 G Exd IIC T6 has been designed for temperature measurement in zones 1 lub 2 and can work with non-intrinsic safe wire configuration.

Thermocouple type TOP-Exd-PKG/PF-237 signed Ex II 1/2 D Ex tD A20/A21 IP67 T85°C has been designed for temperature measurement in zones 21 lub 22 and can work with non-intrinsic safe wire configuration.

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

THERMOMETER SPECIFICATION

Temperature Resistor	Version	Characteristic	Measuring range	Accuracy class	Maximum sensor current	Lead wire configuration
1xPt100 2xPt100	standard shockproof	wg PN-EN-60751	from -200°C to +600°C	B	8 mA	2 wire
			-50°C..+150°C	A	5 mA	3, 4 wire
				1/3 B DIN	2 mA	

Sheathed insert

Diameter d [mm]	Material	Length L [mm]
Ø6, Ø8	Inconel	as per client request (to 2000 mm)

Additional protection tube with flange
on request

Connection head

Type	Temperature range	Cable insert	Destination
Flame-proof XD-AD	-40°C..+100°C	Type 501/421	for basic cables
		Type 501/453	for armoured cable

Transmitter
on request acc. to ATEX

NOTE: Non-standard models available

Ordering Information

TOP-Exd-PKG/PF-237 - A - B - C - D - E - F - G - H - I - J

A. Resistor		A
	Single	1xPt100
	Double	2xPt100
B. Class		B
	B	B
	A	A
	1/3 B DIN	1/3 B DIN
C. Configuration		C
	2 - wire	2p
	3 - wire	3p
	4 - wire	4p
D. Sheathed insert diameter d		D
	Ø 6mm	6
	Ø 8mm	8
E. Additional protection tube diameter		E
		specify in mm
F. Protection tube length L		F
	L	specify in mm
G. Protection tube material		G
	1.4571	1.4571
	Hastelloy C22	C22
H. Additional protection tube flange		H
		specify requirements and dimensions mm
I. Cable insert		I
	1x type 501/421	1x 501/421
	2x type 501/421	2x 501/421
	1x type 501/453	1x 501/453
	2x type 501/453	2x 501/453
J. Transmitter		J
		specify type and range in °C
K. Explosion Zone		K
	Intrinsic safe	Zone 0
	Intrinsic safe	Zone 20
	Non-intrinsic safe	Zone 1
	Non-intrinsic safe	Zone 21
	Non-intrinsic safe	Zone 2
	Non-intrinsic safe	Zone 22

Ordering Example

TOP-Exd-PKG/PF-237-1xPt100-A-3p-6-10-1500-1.4571-DN25PN40-1x501/421

stands for: **Resistance thermometer flame-proof with additional flanged protection tube, with single resistor class. A, configuration 3-wire, sheath diameter $\phi 6$, protection tube diameter $\phi 10$, length L=1500mm, material 1.4571, flange DN25PN40, cable insert 1 x typ 501/421, w/o transmitter.**