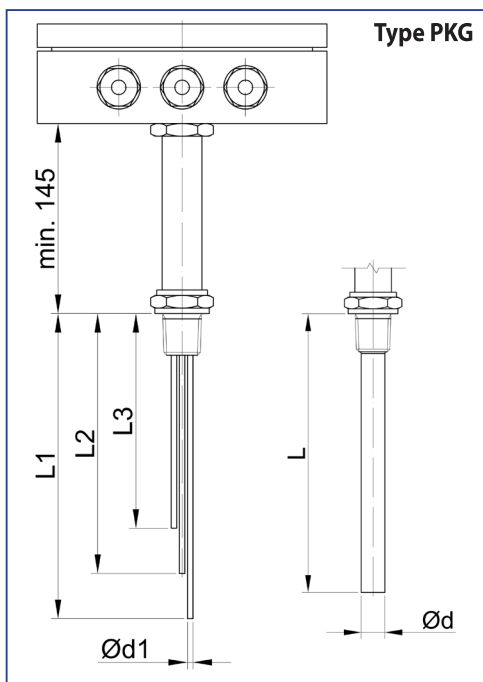


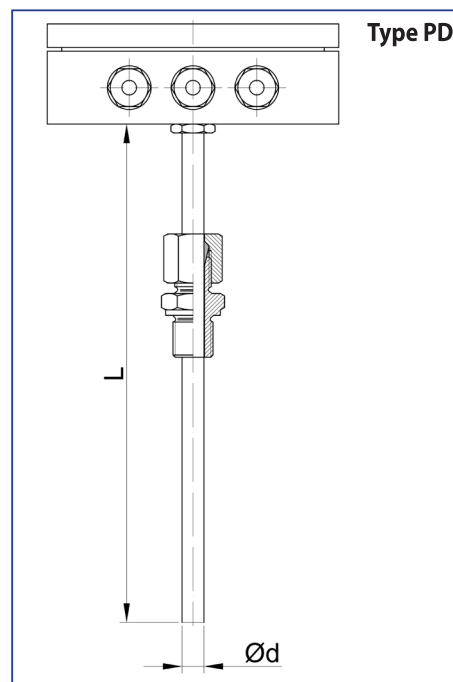
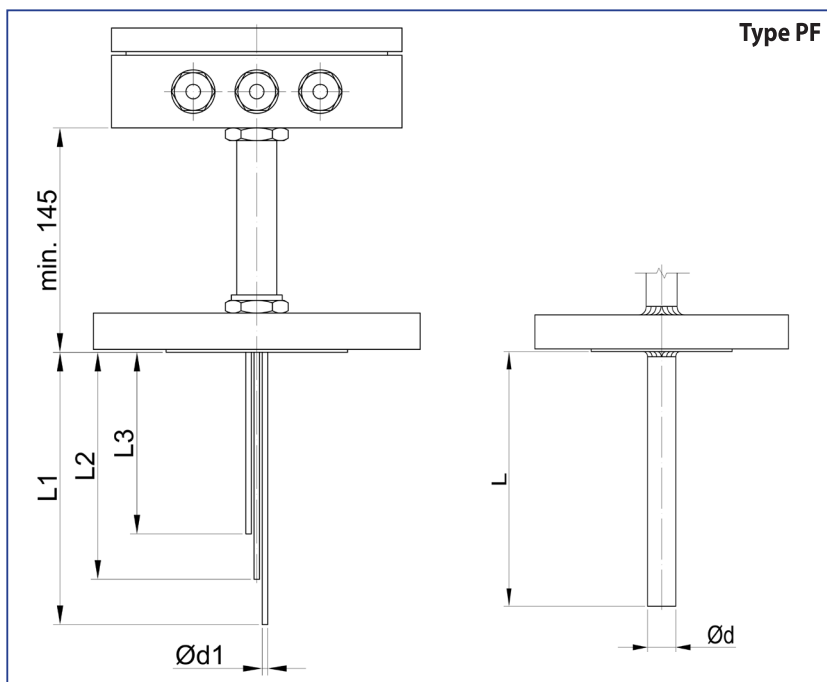
TOP-PKG/PF/PD-193

Resistance Thermometer Pt100 Multipoint

Multipoint resistance thermometer type TOP-PKG/PF/PD-193 with three types of process connections (flanged, threaded or adjustable fitting) is designed for measurement of temperature distribution in containers and columns in the temp. range from -40°C to +600°C. The measurement is done by several resistors situated in different positions.



Type	Execution
TOP-PKG/PF/PD-193	Basic - acc to catalog card
TOP-PKG/PF/PD-193/Exi	Intrinsic safe – acc to Atex





TOP-PKG/PF/PD-193

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100	standard / *shockproof	acc. EN-60751	-40°C..+600°C / *(-40°C..+500°C)	B	8 mA	2, 3, 4 wire
			-40°C..+450°C / *(-40°C..+300°C)	A	5 mA	3, 4 wire

Protect. tube diam. d	Material acc. DIN/AISI	Max operating temp.	Sensor length L_n [mm]
ø10, ø11, ø12, ø13.5, ø15	1.4571 / 316Ti	+700°C	on request
ø10, ø22	1.4841 / 314	+1100°C	
ø10, ø11, ø15	1.7335 / A182 Grade F11	+550°C	
ø13,7	2.4602 / Hastelloy C22	+600°C	

Process connection		
Type PKG	threaded	on request (e.g. M24x1,5, G1/2", G1", 1"NPT)
Type PF	flanged	on request (e.g. DN25 PN40 B1 acc. EN 1092-1, 2"150 RF acc. ASME B16,5)

Junction / Protection Box	Max. ambient temp.	Cable gland thread	Transmitter
depends on number of measure points	+150°C	on request (e.g. M20x1,5, 1/2"NPT)	on request

Threaded compression fitting type UZG-47
on request, acc. to catalog card – UZG-47

To help ensure you are quoted the correct product, please complete:

"Multipoint Thermometer process data sheet"



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manufacturing plant: ul. Krakowska 294, 32-080 Zabierzów
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www.alf-sensor.com

Ordering Information

TOP	A	193	B	C	D	E	F	G	H	I	J	K	L	M	N
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A Type of process connection

PKG	threaded connection
PF	flanged connection
PD	threaded compression fitting type UZG-47

B number of measure points n

2xPt100	two
3xPt100	three
nxPt100	specify amount

C Class

B	B
A	A

D Execution

U	with non-replaceable insert
U/Exi	Intrinsic safe with non-replaceable insert
PS	with replaceable insert
PS/Exi	Intrinsic safe with replaceable insert

E Lead wire configuration

2p	2-wire
3p	3-wire
4p	4-wire

F Sheathed insert diameter d_i

3	$d_i = 3$ mm
4,5	$d_i = 4,5$ mm
6	$d_i = 6$ mm

G Protection tube diameter d

10	d= 10 mm
12	d= 12 mm
13,7	d= 13,7 mm
15	d= 15 mm
22	d= 22 mm
	specify other diam. in mm

H Sensor lengths $L_1 / L_2 / \dots / L_n$

	specify in [mm]
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I Protection tube material

1.4571	1.4571 / 316Ti
1.4404	1.4404 / 316L
1.7335	1.7335 / A182 Grade F11
2.4602	2.4602 / Hastelloy C22
1.4841	1.4841 / 314
	specify other material

J Process connection

	specify type of thread or flange or compression fitting
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K Cable gland number and size

m x M20x1,5	number x M20x1,5
m x 1/2NPT	number x 1/2"NPT
	specify amount and type of thread

L Junction / Protection Box

	specify head type
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M Operating temperature

	specify in °C
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N Transmitter

	specify type and temp. range in °C
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Ordering Example

TOP-PKG-193-3xPt100-B-PS-2p-6-15-250/300/500-1.4571-M27x2-NA-400

stands for: Threaded multipoint thermometer, with replaceable insert, with three resistors class B, 2-wire configuration, sheath diam. $\varnothing$ 6 mm, protection tube diameter $\varnothing$ 15, immersion lengths $L_1=250$ mm, $L_2=300$ mm, $L_3=500$ mm, material 1.4571, threaded connection M27x2, connection head type NA, sensor operating temperature 400°C, w/o transmitter.