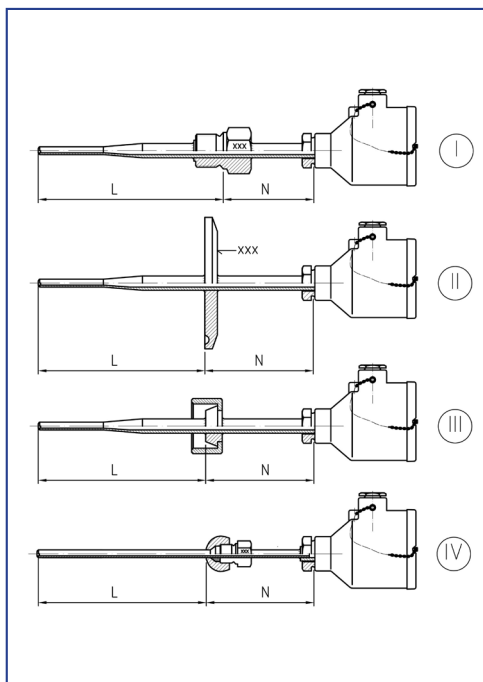


TOP-PF-55

Resistance Thermometer Pt100 with sanitary connection



Resistance thermometer with sanitary connection TOP-PF-55 meets international hygienic standards and has been designed for temperature measurement particularly in food, pharmaceutical and chemical industry.

Protection tube is made of food applicable stainless steel 1.4404 (316L). According to hygienic requirements, it assures measuring surface roughness optionally $Ra < 0,8$ mm or $Ra < 0,4$ mm.

Type	Execution	Version
TOP-PF-55	Basic - acc to catalog card	I
TOP-PF-55/Exi	Intrinsic - acc to Atex	II
TOP-PF-55/Exe	Increased safety - acc to Atex	III
		IV

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 / 2xPt100	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 (AA)	3 mA	

Protection tube type	Process connection fitting G 1/2"	Process connection fitting 1/2" NPT	Triclamp	Disc with nut
Necked tube $\varnothing 10$ to $\varnothing 6$	$L \geq 70$ mm	$L \geq 55$ mm	$L \geq 55$ mm	$L \geq 55$ mm
Immersion $\varnothing 6$ / extension $\varnothing 10$	$L < 70$ mm	$L < 55$ mm	$L < 55$ mm	$L < 55$ mm
Tube with sphere $\varnothing 25$ with pipe $\varnothing 6$	L from 25 ÷ 500 [mm]			

Process connection fitting	Triclamp	Disc acc. DIN 11851	Sphere
G 1/2", 1/2 NPT	1/2", 3/4", 1", 1 1/2", 2", 3", 4"	for pipes DN10, DN25, DN32, DN40, DN50	$\varnothing 25$ with PEEK or 1.4571 ferrule

Non-standard models available.

Stainless steel connection head	Transmitter
on request (e.g. BEG, BAEG)	on request

Ordering Information

TOP-PF-55	A	B	C	D	E	F	G	H	I	J	K	L	M
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A Execution	
I	With process connection fitting
II	With clamp acc. ISO 2852 / DIN 32676 (Tri-clamp)
III	With disc and nut acc. DIN 11851
IV	With adjustable sphere clamp (Sphere)

B ATEX Execution	
-	Basic
/Exi	Intrinsic safe
/Exe	Increased safety

C Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

E Lead wire configuration	
2p	2 wire
3p	3 wire
4p	4 wire

F Type of protection tube	
Z	Necked tube $\varnothing 10$ to $\varnothing 6$
R	Immersion $\varnothing 6$ / extension $\varnothing 10$
K	Tube with sphere $\varnothing 25$ with pipe $\varnothing 6$

G Immersion length L	
	specify in [mm]

H Neck tube length N	
	specify in [mm]

I Type of connection	
G $\frac{1}{2}$	process connection fitting G $\frac{1}{2}$ "
$\frac{1}{2}$ NPT	process connection fitting $\frac{1}{2}$ NPT
TC $\frac{1}{2}$ ($\frac{3}{4}$)	triclamp $\frac{1}{2}$ " or $\frac{3}{4}$ "
TC1($1\frac{1}{2}$)	triclamp 1" or 1 $\frac{1}{2}$ "
TC2	triclamp 2"
TC2 $\frac{1}{2}$	triclamp 2 $\frac{1}{2}$ "
TC3	triclamp 3"
TC4	triclamp 4"
SP2	sphere $\varnothing 25$ with PEEK ferrule
SP4	sphere $\varnothing 25$ with 1.4571 ferrule
DN10	disc DIN11851 for pipe DN10
DN25	disc DIN11851 for pipe DN25
DN32	disc DIN11851 for pipe DN32
DN40	disc DIN11851 for pipe DN40
DN50	disc DIN11851 for pipe DN50

J Surface roughness	
Ra0,8	Ra < 0,8 μ m
Ra0,4	Ra < 0,4 μ m

K Connection head	
	specify head type

L Transmitter	
	specify type and temp. range in °C

M Version	
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

TOP-PF-55-II-1xPt100-B-2p-Z-150-100-TC2-Ra0,8-BEG-Z

stands for: Resistance thermometer with sanitary connection, basic, single Pt100 class B, configuration 2-wire config., necked tube diam. 10/6 mm, immersion length L=150mm, neck length N=100mm, process connection Tri-clamp 2", surface roughness Ra < 0,8 μ m, connection head type BEG, standard sensor version (ceramic wire wound element).