



## RESISTANCE THERMOMETER STRAIGHT with process connection fitting with additional protection tube Type TOP- PKG-158

Resistance thermometer type TOP-PKG-158 is a sensing device for temperature measurement of process gases and liquids in cases with high pressure, temperature fluctuation and harmful medium appears.

Thermometer consists of spring loaded replaceable sensor insert type WP-OP-01-PS with 1 or 2 transmitters in head connection. Flanged, welded and screwed thermowell models are available.

Model	Execution	Insert type
PS	with replaceable insert	WP-OP-01-PS
PS/Exi	Intrinsic safe with replaceable insert	

### THERMOMETER SPECIFICATION

Temperature Resistor	Version	Characteristic	Measuring range	Accuracy class	Maximum sensor current	Lead wire configuration
1xPt100 2xPt100	standard shockproof	acc. 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 protection tube

Protection tube material	Diameter d <sub>2</sub> / d <sub>1</sub> [mm]	Length L [mm]	Process connection fitting D
1.4571	Ø6/5, Ø8/6	as per client request	M27x2, M24x1,5, M20x1,5 G1/2", G3/4", G1" 1/2"NPT, 3/4"NPT, 1"NPT

### Distance protection tube

Diameter	Material	Additional outer protection tube	Transmitter
Ø12	1.4571	on request	on request

### Connection head

Type	Max. operating temp.	Material	Protection
B	+100°C	Al	IP 54
NA (with silicone seal)	+150°C		IP 65
DAN-W			

**NOTE: Non-standard models available**

## Ordering Information

TOP-PKG-158 - A - B - C - D - E - F - G - H - I - J - K

A. Execution		A
	with replaceable insert	PS
	Intrinsic safe with replaceable insert	PS/Exi
B. Resistor		B
	Single	1xPt100
	Double	2xPt100
C. Class		C
	B	B
	A	A
	1/3 B DIN	1/3 B DIN
D. Configuration		D
	2 - wire	2p
	3 - wire	3p
	4 - wire	4p
E. Sleeve diameter $d_2$ and sheath diameter $d_1$		E
	$\varnothing$ 6 / 5	6/5
	$\varnothing$ 8 / 6	8/6
F. Process connection fitting		F
	M20x1,5	M20x1,5
	M24x1,5	M24x1,5
	M27x2	M27x2
	G 1/2"	G 1/2
	G 3/4"	G 3/4
	G 1"	G 1
	1/2" NPT	1/2 NPT
	3/4" NPT	3/4 NPT
	1" NPT	1 NPT
G. Insert length		G
	L	specify in mm
H. Connection head		H
	B	B
	NA (up to 100 °C)	N1
	NA (up to 150 °C)	N2
	DAN-W (up to 100 °C)	DAN-W1
	DAN-W (up to 150 °C)	DAN-W2
I. Transmitter		I
		specify type and range in w °C
J. Additional outer protection tube		J
		specify requirements and dimensions
K. Sensor version		K
	standard	Z
	shockproof	W

## Ordering Example

**TOP-PKG-158-PS-1xPt100-A-3p-6/5-M20x1,5-400-N1-Z**

stands for : **Resistance thermometer, with replaceable insert, with resistor 1xPt100 class A, configuration 3-wire, sleeve and sheath diameter 6/5 mm, thread M20x1,5, insert length L=400 mm, connection head type NA up to 100°C, w/o transmitter, w/o additional protection tube, standard sensor version.**