
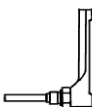


INDUSTRIAL THERMOMETERS

Straight type and angle type 90°

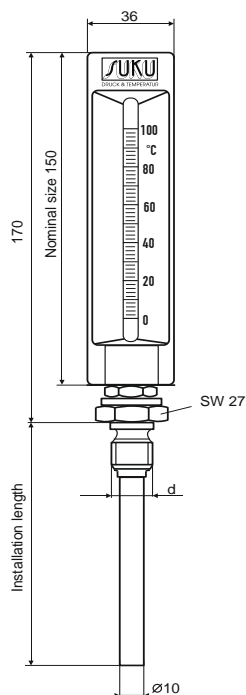


A robust thermometer for an accurate measurement of temperatures, especially in industrial processing plants.

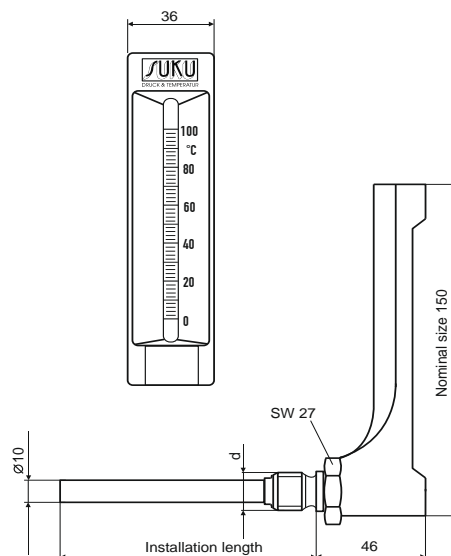
Model	22	21	27	24	23	29	Options
Size of case	110x36	150x36	200x36	110x36	150x36	200x36	
Symbol							Connector at an angle 135° Size 110 = Typ 26...7 Size 150 = Typ 26...8 Size 200 = Typ 26...9
Stem length in mm	30 40 63 100 160 250 400	63 100 160 250 400	63 100 160 250 400	30 40 63 100 160 250 400	63 100 160 250 400	63 100 160 250 400	45, 250 Other on request
Accuracy class	according DIN 16195						
Ranges °C	-60...+40, -30...+50, 0...100, 0...120, 0...160, 0...200						0...250, 0...300, 0...400, 0...500, 0...600
Case	Aluminium , V-shaped, brass-colored anodised, Numbers on the right cheek scales , black printed						Rotatable type, case made of plastic
Glass insert	Solid class, calibration is deeply burned, in black						
Filling liquid	Blue fluid for standard executions 0 +300°C, above 300°C only mercury filling (see page 3/3)						
Immersion tube	Standard brass, diameter 10 mm, thickness 1 mm, hard solded						Steel or stainless steel 1.4571
Thread connection	G ½ B, M20x1,5						G ¾ B, M27x2
Immersion tube type	Threaded socket with integral hexagonal nut						Insertion form, union nut

Dimensions

Type 21



Type 23



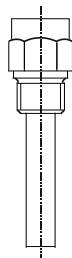
= G 1/2 B or M20x1,5

Installation instructions: It will be pointed out especially that the immersion pipe of the thermometer in the whole length of the media to be measured must be lapped.

Protecting tubes for industrial thermometers

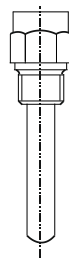
Protecting tube
screw-in type

Typ "BD"



Protecting tube
screw-in type

Typ "BE"



Protecting tube
weld-in type

Typ "BS"



Model	Typ (DIN)	Material			Dimensions in mm	
		Pressure load (PN)			Immersion tube	Protecting tube
B 976	(BD)	Steel	Brass 58	1.4571	63	45
		PN 25	PN 6	PN 25	100	82
					160	142
					250	232
E 978	(BE)	Steel	Brass 58	1.4571	63	50
		PN 160		PN 150	100	87
					160	147
					250	237
S 977	(BS)	Steel 15Mo3	Steel C22.8	1.4571	63	48
		PN 250	PN 150	PN 150	100	73
					160	133
					250	223

Case 110 x 30 mm

Displayed range °C	Scale division value °C	Margin of error °C	thermo-metrical fluid
-60 ... +40	2	2	red, moisted
0 ... 100	2	2	blue, moisted
0 ... 120	2	2	

Case 150 x 36 mm

Displayed range °C	Scale division value °C	Margin of error °C	thermo-metrical fluid
-60 ... +40	2	2	red, moisted
0 ... 100	2	2	blue, moisted
0 ... 120	2	2	
0 ... 160	2	4*	
0 ... 200	2	4*	

Case 200 x 36 mm

Displayed range °C	Scale division value °C	Margin of error °C	thermo-metrical fluid
-60 ... +40	1	2	red, moisted
-30 ... +50	1	2	blue, moisted
0 ... 100	2	2	
0 ... 120	1	2	
0 ... 160	2	4*	
0 ... 200	2	4*	
0 ... 300	2	2	Mercury
0 ... 400	5	5	
0 ... 500	5	5	
0 ... 600	5	5 area 0-500	
0 ... 600	5	8 area 500-600	

Thermometers with V - shaped housing with the display range of 0 to 160 ° C and 0 to 200 ° C may be carried out by agreement with mercury as a thermometric liquid ; the error limits are halved then