Industrial thermometers type 174 B, 175 B

Fixed male thread // Nominal size 110 // Aluminium anodized

174 B



175 B



Highlights

- Accuracy according to DIN 16195
- No aging - no moving parts and no mechanical wear
- Lifetime warranty*
- Completely without electrical auxiliary energy

Technical data		
Type	174 B	175 B
Standard	DIN 16181 B, B1 and DIN 16182 S, S1	
Version	Straight	Angle 90°
Dimensions Housing	110 x 30 mm	
Measuring range according to DIN	Between -30...200 °C	
Error limits according to DIN 16195	2 °C	
Medium / Application	Liquid and gaseous media	
Immersion tube length	Between 30...250 mm	
Immersion tube diameter	Ø 10 mm	
Process connection	Fixed male thread G⅜, G½, M20 x 1.5	
Pressure rating**		
→ Immersion tube brass, brazed	PN 16	
→ Immersion tube steel or stainless steel, welded	PN 35	
→ Immersion tube special brass or CuNi30Fe	PN 16	
Medium temperature	See selected measurement range	
Ambient temperature	-20...60 °C (only indoors)	
Storage temperature	-40...100 °C	
Approvals		

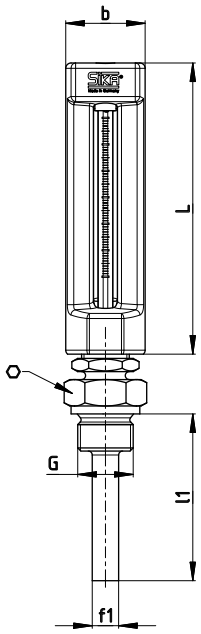
* Except glass breakage and improper installation.
** Non-binding guideline - For higher pressure loads, additional protection tubes have to be used.

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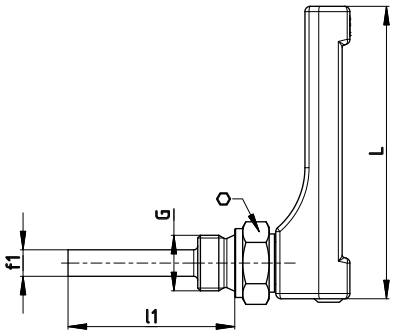
Options	
For type	**See separate data sheet**
174 / 175 B	Version for serial applications Types HBZ / WBZ

Technical drawings // Dimensions

Typ 174 B



Typ 175 B



Dimensions [mm]					
Type	**L**	**f_1**	**b**	**l_1**	**G / ⬡ Width across flats**
174 B	110	Ø 10	30	30 40 63 100 160 250	G⅜ / SW22 G½ / SW27 M20 x 1.5 / SW27
175 B					

Materials

Material	
Not in contact with media	
Housing	Warm pressed aluminium part, gold anodized
Thermometer capillary	Prismatic capillary tube of solid glass, bar-shaped, diameter approx. Ø 6 mm, scale permanently burnt in
Thermometer filling → Blue	 Petroleum
In contact with media	
Process connection	see immersion tube material
Immersion tube material → Standard → Optional	 Brass, brazed Stainless steel, welded Special brass (sea water resistant) Copper nickel alloy CuNi30Fe (sea water resistant)

Article numbers

Order code								
Version								
Straight	174							
Angle 90 °	175							
Immersion tube type								
Type B - fixed male thread		2						
Display ranges								
-30...50 °C			35					
0...50 °C			05					
0...60 °C			06					
0...100 °C			10					
0...120 °C			12					
0...160 °C			16					
0...200 °C			20					
Scale								
Celsius °C				1				
Celsius and Fahrenheit (°C + °F)				2				
Thermometer filling								
Blue					1			
Immersion tube length (l_1)								
30 mm						030		
40 mm						040		
63 mm						063		
100 mm						100		
160 mm						160		
250 mm						250		
Process connection								
G⅜ / SW22							1	
G½ / SW27							2	
M20 x 1.5 / SW27							7	
Immersion tube material								
Brass								1
Stainless steel								3
Special brass								4
Copper nickel alloy								5
Example order number	**174**	**2**	**35**	**1**	**1**	**030**	**1**	**1**

If required please ask for our specification sheet „Immersion tube material“

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Type		Immersion tube length (l_1)	Order number						
174 B	Straight type, 0...100 °C with fixed male thread G½ , Immersion tube brass	40 mm	**174**	**2**	**10**	**1**	**040**	**2**	**1**
174 B		63 mm	**174**	**2**	**10**	**1**	**063**	**2**	**1**
174 B		100 mm	**174**	**2**	**10**	**1**	**100**	**2**	**1**
175 B	Angle type, 0...100 °C with fixed male thread G½ , Immersion tube brass	40 mm	**175**	**2**	**10**	**1**	**040**	**2**	**1**
175 B		63 mm	**175**	**2**	**10**	**1**	**063**	**2**	**1**
175 B		100 mm	**175**	**2**	**10**	**1**	**100**	**2**	**1**

Accessories

Accessories	Article number
Measuring point designation Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points → **Scope of delivery:** Designation plate inscribed according to specification and enclosed fixing wire (sealing wire) → **Fastening:** Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery) → **Materials:** Plate stainless steel 1.4571, wire stainless steel → **Dimensions:** Plate 55 x 10 x 0.8 mm, wire length 180 mm → **Inscription:** one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes → **Transmission of designations:** digital list, file formats Excel, Word or CSV	**ONSITETAG**

