Industrial Thermometers

Since their invention, SIKA thermometers have been the very embodiment of robustness, reliability and accuracy. They harbour knowledge of many details and the experience of thousands of applications.
For this reason, they are now completely indispensable in marine engineering, mechanical and plant engineering, as well as heating and air conditioning technology. Over 15 million reliable temperature monitors have already been produced in Kaufungen.

The advantages of a glass thermometer over other thermometers such as dial thermometers or electronic versions, are obvious:

- No mechanically moving parts
- No material fatigue
- No electrical energy requirement
- High level of accuracy
- Long service life.

In other words, as long as a glass thermometer is not mechanically destroyed, it remains accurate for the duration of its service life.

Casing

Aluminium, V-shaped, completely polished, gold-coloured anodized. Numbers of reading scale printed on the right side. Printing black-coloured for easy readin g.

Straight thermometer is ad justable to any requested position and locked by brass nut, spanner size 22mm.
Angle thermometers (90 degrees) with grooved adapter piece and set screw.

Advantage: When mounting the thermometer, it is not necessary to turn the casing.

Glass Inserts (Capillaries)

Capillary tube of solid glass, prismatic (optic enlargement of the column), oval opening, with yellow back for mercury and white back for blue liquid column.

Graduation of scale is deeply burnt in, thus being absolutely resistant. The main graduations, which correspond with the printing on the casing, are especially clearly outlined.

Immersion Tubes (Pockets)

Standard: brass (Code “Ms”) for temperatures up to 250oC, for temperatures above 250oC steel (Code “St”).

Seawater resistant alloys are available on request (special alloy SoMs59, SoMs76 or “CuNi30Fe”).

For corrosive alkalis or acids, material 1.4571 (stainless steel) or other resistant steels are available.

Legal notice

According to regulation no. 847/2012 of European Union, thermometers with mercury filling are only bound for export outside the EU. Placing them on the market inside the EU after April 10th, 2014 is prohibited.

Concerned are industrial thermometers and glass inserts with display ranges 0…300°C and higher, only.
In this case, we are recommending the use of our dial or digital thermometers

Industrial Thermometers
DIN 16189 B, DIN 16190 B

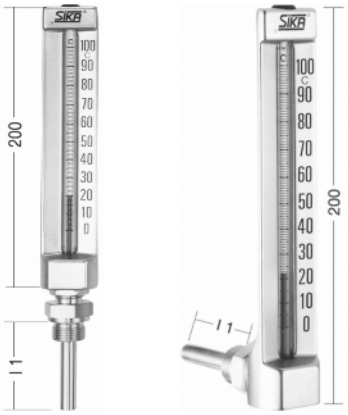
Thermometer, straight type

- Casing 200…36 mm, Type 271 B
- DIN 16189 B
- Thread connection : G1/2 A, 1/2" BSP *

Thermometer, angle type 90°

- Casing 200…36 mm, Type 272 B
- DIN 16190 B
- Thread connection: G1/2 A, 1/2" BSP *

* Also available with thread connections: G3/4A, M20x1.5, M27x2, 1/2 NPT



Type 271 B / Straight

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	2712351106321	61.110.10	65 19 01
0...60	2712061106321	61.110.16	65 19 28
0...100	2712101106321	61.110.22	65 19 04
0...120	2712121106321	61.110.28	65 19 31
0...160	2712161106321	61.110.34	65 19 07
0...200	2712201106321		65 19 10
0...250	2712251106321	61.110.40	
0...300	2712301206321	61.110.50	65 20 53
0...600	2717601206322	61.110.80	65 19 22
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	2712351110021	61.110.11	65 19 02
0...60	2712061110021	61.110.17	65 19 29
0...100	2712101110021	61.110.23	65 19 05
0...120	2712121110021	61.110.29	65 19 32
0...160	2712161110021	61.100.83	65 19 08
0...200	2712201110021		65 19 11
0...250	2712251110021	61.100.41	
0...300	2712301210021	61.110.51	65 19 54
0...600	2712601210022	61.110.81	65 19 23
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	2712351116021	61.110.12	65 19 03
0...60	2712061116021	61.110.18	65 19 30
0...100	2712101116021	61.110.24	65 19 06
0...120	2712121116021	61.110.30	65 19 33
0...160	2712161116021	61.110.36	65 19 09
0...200	2712201116021		65 19 12
0...250	2712251116021	61.100.42	
0...300	2712301216021	61.110.52	65 19 55
0...600	2712601216022	61.110.82	65 19 24

Type 272 B / Angle 90°

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	2722351106321	61.113.05	65 20 01
0...60	2722061106321	61.113.08	65 20 28
0...100	2722101106321	61.113.11	65 20 04
0...120	2722121106321	61.113.14	62 20 31
0...160	2722161106321	61.113.17	65 20 07
0...200	2722201106321		65 20 10
0...250	2722251106321	61.113.20	
0...300	2722301206321	61.113.25	65 20 13
0...600	2722601206322	61.113.40	65 20 22
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	2722351110021	61.113.06	65 20 02
0...60	2722061110021	61.113.09	62 20 29
0...100	2722101110021	61.113.12	65 20 05
0...120	2722121110021	61.113.15	65 20 32
0...160	2722161110021	61.113.18	65 20 08
0...200	2722201110021		65 20 11
0...250	2722251110021	61.113.21	
0...300	2722301210021	61.113.26	65 20 14
0...600	2722601210022	61.113.41	65 20 23
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	2722351116021	61.113.07	65 20 03
0...60	2722061116021	61.113.10	65 20 30
0...100	2722101116021	61.113.13	65 20 06
0...120	2722121116021	61.113.16	65 20 33
0...160	2722161116021	61.113.19	65 20 09
0...200	2722201106021		65 20 12
0...250	2722251116021	61.113.22	
0...300	2722301216021	61.113.27	65 20 15
0...600	2722601216022	61.113.42	65 20 24

GL Type 271 & 272 Approved
Germanischer Lloyd
Certificate No. 94 654 94 HH

Industrial Thermometers
DIN 16181 B, DIN 16182 B

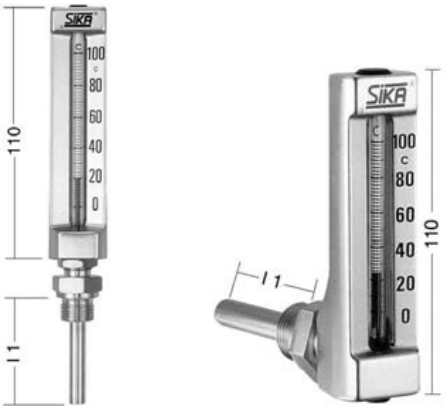
Thermometer, straight type

- Casing 110…30 mm, Type 174 B
- DIN 16181 B
- Thread connection : G1/2 A, 1/2" BSP *

Thermometer, angle type 90°

- Casing 110…30 mm, Type 175 B
- DIN 16182 B
- Thread connection: G1/2 A, 1/2" BSP *

* Also available with thread connections: G3/4A, M20x1.5, M27x2, 1/2 NPT



Type 174 B / Straight

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 30 mm		
-30...50	1742351103021		
0...60	1742061103021		
0...100	1742101103021		65 19 81
0...120	1742121103021		
0...160	1742161103021		
0...200	1742201103021		65 19 86
Display range [°C]	Immersion tube length (l_1) 40 mm		
-30...50	1742351104021		
0...60	1742061104021		
0...100	1742101104021		65 19 82
0...120	1742121104021		
0...160	1742161104021		
0...200	1742201104021		65 19 87
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	1742351106321	61.112.07	
0...60	1742061106321	61.112.13	
0...100	1742101106321	61.112.19	65 19 83
0...120	1742121106321	61.112.25	
0...160	1742161106321	61.112.31	
0...200	1742201106321		65 19 88
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	1742351110021	61.112.08	
0...60	1742061110021	61.112.14	
0...100	1742101110021	61.112.20	65 19 84
0...120	1742121110021	61.112.26	
0...160	1742161110021	61.112.32	
0...200	1742201110021		65 19 89
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	1742351116021	61.112.09	
0...60	1742061116021	61.112.15	
0...100	1742101116021	61.112.21	65 19 85
0...120	1742121116021	61.112.27	
0...160	1742161116021	61.112.33	
0...200	1742201116021		65 19 90

Type 175 B / Angle 90°

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 30 mm		
-30...50	1752351103021		
0...60	1752061103021		
0...100	1752101103021		65 20 81
0...120	1752121103021		
0...160	1752161103021		
0...200	1752201103021		65 20 86
Display range [°C]	Immersion tube length (l_1) 40 mm		
-30...50	1752351104021	61.115.06	
0...60	1752061104021	61.115.11	
0...100	1752101104021	61.115.16	65 20 82
0...120	1752121104021	61.115.21	
0...160	1752161104021	61.115.26	
0...200	1752201104021		65 20 87
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	1752351106321	61.115.08	
0...60	1752061106321	61.115.13	
0...100	1752101106321	61.115.18	65 20 83
0...120	1752121106321	61.115.23	
0...160	1752161106321	61.115.28	
0...200	1752201106321		65 20 88
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	1752351110021	61.115.09	
0...60	1752061110021	61.115.14	
0...100	1752101110021	61.115.19	65 20 84
0...120	1752121110021	61.115.24	
0...160	1752161110021	61.115.29	
0...200	1752201110021		65 20 89
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	1752351116021	61.115.10	
0...60	1752061116021	61.115.15	
0...100	1752101116021	61.115.20	65 20 85
0...120	1752121116021	61.115.25	
0...160	1752161116021	61.115.30	
0...200	1752201116021		65 20 90

GL

Type 174 & 175 Approved
Germanischer Lloyd
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Industrial Thermometers
DIN 16185 B, DIN 16186 B

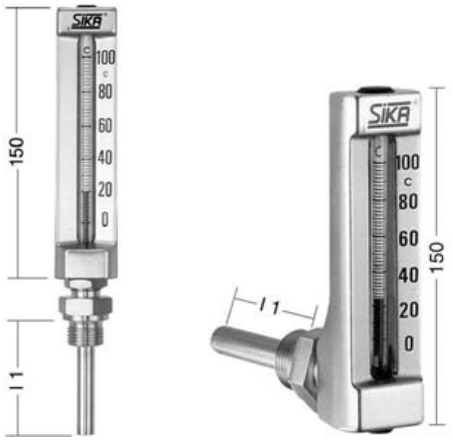
Thermometer, straight type

- Casing 150…36 mm, Type 291 B
- DIN 16185 B
- Thread connection : G1/2 A, 1/2" BSP *

Thermometer, angle type 90°

- Casing 150…36 mm, Type 292 B
- DIN 16186 B
- Thread connection: G1/2 A, 1/2" BSP *

* Also available with thread connections: G3/4A, M20x1.5, M27x2, 1/2 NPT



Type 291 B / Straight

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	2912351106321	61.111.10	65 19 41
0...60	2912061106321	61.111.16	65 19 68
0...100	2912101106321	61.111.22	65 19 44
0...120	2912121106321	61.111.28	65 19 71
0...160	2912161106321	61.111.34	65 19 47
0...200	2912201106321		65 19 50
0...250	2912251106321	61.111.40	
0...300	2912301206321	61.111.50	65 19 53
0...600	2912601206322	61.111.80	65 19 62
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	2912351110021	61.111.11	65 19 42
0...60	2912061110021	61.111.17	65 19 69
0...100	2912101110021	61.111.23	65 19 45
0...120	2912121110021	61.111.29	65 19 72
0...160	2912161110021	61.111.35	65 19 48
0...200	2912201110021		65 19 51
0...250	2912251110021	61.111.41	
0...300	2912301210021	61.111.51	65 19 54
0...600	2912601210022	61.110.81	65 19 63
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	2912351116021	61.111.12	65 19 43
0...60	2912061116021	61.111.18	65 19 70
0...100	2912101116021	61.111.24	65 19 46
0...120	2912121116021	61.111.30	65 19 73
0...160	2912161116021	61.111.36	65 19 49
0...200	2912201116021		65 19 52
0...250	2912251116021	61.111.42	
0...300	2912301216021	61.111.52	65 19 55
0...600	2912601216022	61.111.82	65 19 64

Type 292 B / Angle 90°

Order code	SIKA	ISSA	IMPA
Display range [°C]	Immersion tube length (l_1) 63 mm		
-30...50	2922351106321	61.114.08	65 20 41
0...60	2922061106321	61.114.13	65 20 68
0...100	2922101106321	61.114.18	65 20 44
0...120	2922121106321	61.114.23	65 20 71
0...160	2922161106321	61.114.28	65 20 47
0...200	2922201106321		65 20 50
0...250	2922251106321	61.114.33	
0...300	2922301206321	61.114.38	65 20 53
0...600	2922 601206322	61.114.43	65 20 62
Display range [°C]	Immersion tube length (l_1) 100 mm		
-30...50	2922351110021	61.114.09	65 20 42
0...60	2922061110021	61.114.14	65 20 69
0...100	2922101110021	61.114.19	65 20 45
0...120	2922121110021	61.114.24	65 20 72
0...160	2922161110021	61.114.29	65 20 48
0...200	2922201110021		65 20 51
0...250	2922251110021	61.114.34	
0...300	2922301210021	61.114.39	65 20 54
0...600	2922601210022	61 114.44	65 20 63
Display range [°C]	Immersion tube length (l_1) 160 mm		
-30...50	2922351116021	61.114.10	65 20 43
0...60	2922061116021	61.114.15	65 20 70
0...100	2922101116021	61.114.20	65 20 46
0...120	2922121116021	61.114.25	65 20 73
0...160	2922161116021	61.114.30	65 20 49
0...200	2922201116021		65 20 52
0...250	2922251116021	61.114.35	
0...300	2922301216021	61.114.40	65 20 55
0...600	2922601216022	61.114.45	65 20 64

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Thermometer Inserts

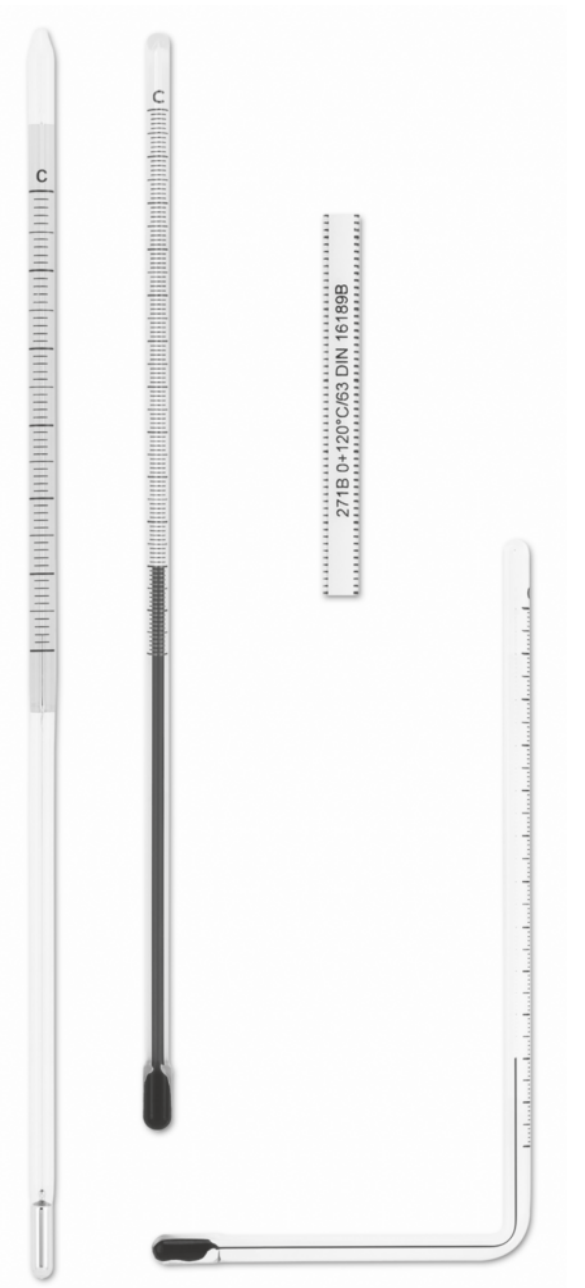
Since 1901 we at SIKA Dr. Siebert and Kühn have been producing precision measuring and control instruments. Mechanical parts as well as glass inserts of our standard types are produced in automated manufacturing processes.

However, the glass inserts of special versions, e. g. high temperature versions are still manufactured by our glassblowers in traditional handcraft.

Thanks to our long year experience and proven manufacturing processes in Germany, we are in the position to guarantee best quality. SIKA thermometers meet highest demands in precision as well as in mechanical stability.

Original SIKA thermometers simply last longer than most others.

Order example	174	2	35	1	1	030
Thermometer type						
Straight	174					
	291					
	271					
Angle 90°	175					
	292					
	272					
Immersion tube						
Type B		2				
Display ranges						
-30...50 °C			35			
0...60 °C			06			
0...100 °C			10			
0...120 °C			12			
0...160 °C			16			
0...200 °C			20			
0...250 °C			25			
0...300 °C			30			
0...600 °C			60			
Scale						
Celsius (°C)				1		
Celsius + Fahrenheit (°C + °F)				2		
Filling						
Standard fluid for ranges up to 250 °C		Fü			1	
Mercury for ranges above 250 °C		HG			2	
Immersion tube length						
Immersion tube length l1 in mm						030
(according to complete thermometers)						040
for types B with fixed male connection thread						063
						100
						160
						250



Attention:

The exact order text is marked on the back of the capillary:
DIN No., range, immersion length .