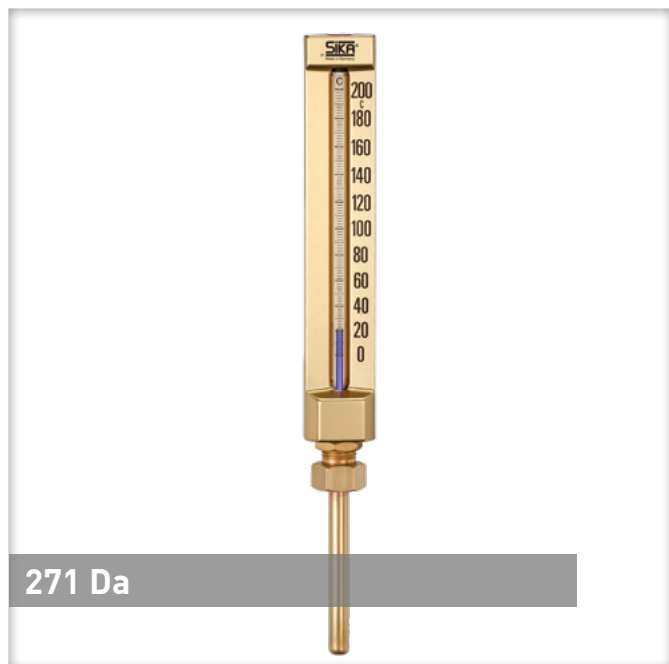


Union nut // Nominal size 200 // Aluminium anodized



Your advantages

Series

271 Da / 272 Da / 271 Dc / 272 Dc

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

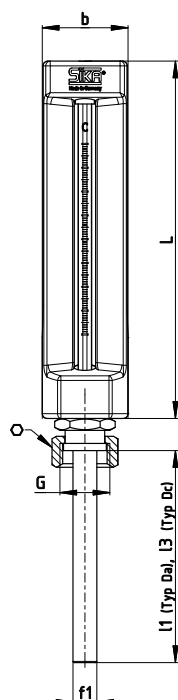
Technical data

Type	271 Da	272 Da	271 Dc	272 Dc
Standard	DIN 16189 C, C1, DIN 16190 S, S1 and DIN 16191 C, C1		DIN 16189 F	
Version	Straight	Angle 90°	Straight	Angle 90°
Dimensions Housing	200 x 36 mm			
Measuring range according to DIN	Between -30...250 °C			
Error limits according to DIN 16195	-30...100 °C = 2 °C 0...120 °C = 2 °C 0...200 °C = 4 °C			
Medium / Application	Liquid and gaseous media			
Immersion tube length	Between 89...430 mm			
Immersion tube diameter	Ø 10 mm		Ø 6.5 mm	
Process connection	union nut G1½, G¾ , M20 x 1.5, M27 x 2		union nut M24 x 1.5	
Pressure rating** → Immersion tube brass, brazed → Immersion tube steel or stainless steel, welded	PN 16 PN 35			
Medium temperature	See selected measurement range			
Ambient temperature	-20...60 °C			
Storage temperature	-40...100 °C			

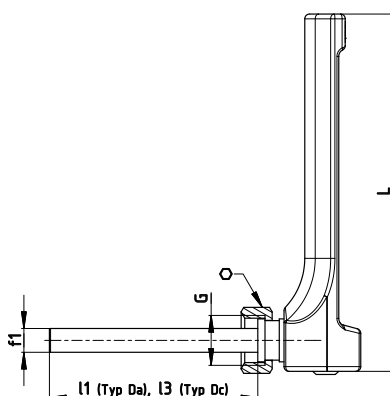
* Except glass breakage and improper installation.

** Non-binding guideline - For higher pressure loads, additional protection tubes have to be used.

Type 271 Da / 271 Dc



Type 272 Da / 272 Dc



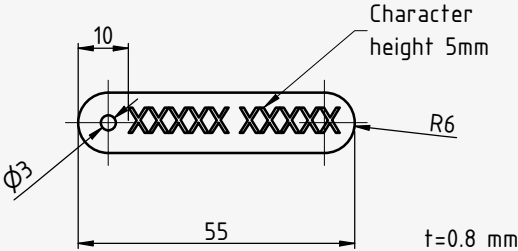
Dimensions [mm]	L	f ₁	b	l ₁	G /  Width across flats*
271 Da	200	Ø 10	36	see order code	G½ / SW27 M20 x 1.5 / SW27 G¾ / SW32 M27 x 2 / SW32
272 Da					
271 Dc		Ø 6.5			M24 x 1.5 / SW32
272 Dc					

* Only type 271 Da / 272 Da

Material	
Housing	Warm pressed aluminium part, gold anodized
Thermometer capillary	Prismatic capillary tube of solid glass, bar-shaped, diameter approx. $\varnothing$ 6 mm, scale permanently burnt in
Thermometer filling → Blue	Petroleum
Material in contact with media	
Process connection	see immersion tube material
Immersion tube material → Standard → Optional	Brass, brazed Stainless steel, welded

Order code											
Version											
Straight		271									
Angle 90 °		272									
Immersion tube type											
Type Da		3									
Type Dc		5									
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									
Scale											
Celsius °C		1									
Celsius and Fahrenheit (°C + °F)		2									
Thermometer filling											
Blue		1									
Immersion tube length (l ₁)		Immersion tube type									
union nut G½, M20 x 1.5 (SW27)		Da									
89 mm										089	
126 mm										126	
186 mm										186	
276 mm										276	
426 mm										426	
union nut G¾, M27 x 2 (SW32)											
93 mm										093	
130 mm										130	
190 mm										190	
280 mm				280							
430 mm				430							
Immersion tube length match protection tubes according to DIN 43772 form 4		Dc									
155 mm										155	
215 mm										215	
275 mm										275	
295 mm										295	
355 mm										355	
415 mm										415	
Process connection (union nut)											
G½ / SW27		Da									
M20 x 1.5 / SW27										2	
G¾ / SW32										7	
M27 x 2 / SW32										3	
M24 x 1.5 / SW32		Dc									
										9	
										8	
Immersion tube material											
Standard: Da = fitting and tube: brass, Dc = fitting: brass / tube: stainless steel				A							
Option: Only Da = fitting and tube: stainless steel				C							
Example order number				271	3	35	1	1	089	2	A

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

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