

Dial thermometer // gas filled // for low temperatures // with capillary line

Type 310 WH // 320 TA // 330 TE // 340 KL



Type 320

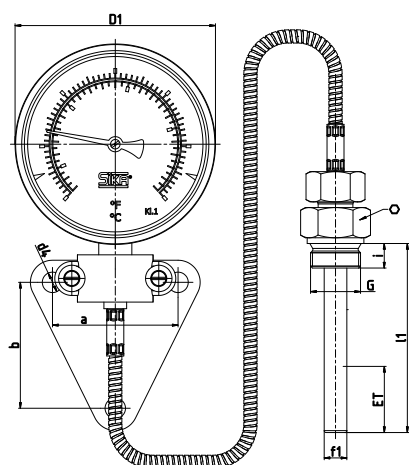
Highlights

- For gas applications (LNG, CNG, LPG, etc.)
- Completely stainless steel - high-quality version
- Without electrical auxiliary power

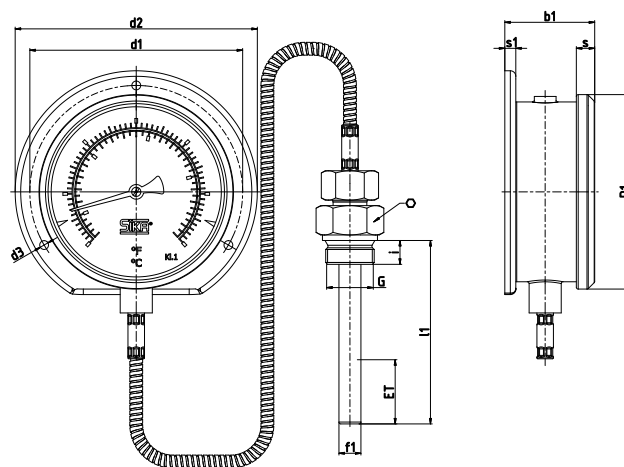
Technical data				
Type	310 WH	320 TA	330 TE	340 KL
Version	With wall bracket	Rear mounting flange	Front mounting flange	With U bracket
Nominal size	Ø 80 or 100 mm			
Display ranges according to EN 13190	-200...100 °C -150...100 °C -50...100 °C -100...50 °C			
Accuracy according to EN 13190	Class 1			
Medium / Application area	Liquid and gaseous media			
Capillary line connection	Bottom		Central back	
Immersion tube length	Between 100...400 mm			
Immersion tube diameter	Ø 12 mm			
Capillary line	With stainless steel-spiral protection, 1...15 m length			
Process connection	Connection types: A, AK			
Nominal pressure	Max. 25 bar			
Measuring system	Nitrogen filled			
Degree of protection according to EN 60529	IP65			
Medium temperature	See selected display range			
Ambient temperature	-20...60 °C (only indoors)			
Storage temperature	-40...60 °C			
Nominal service temperature (EN 13190)	23 °C ±2 °C			

Technical drawings

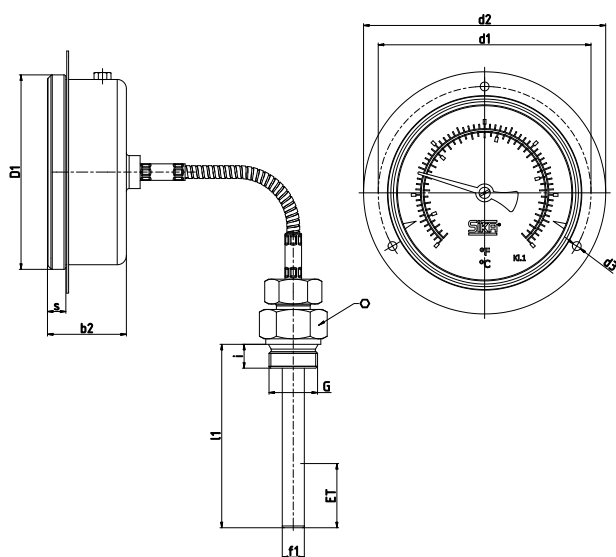
Type 310 WH with wall bracket



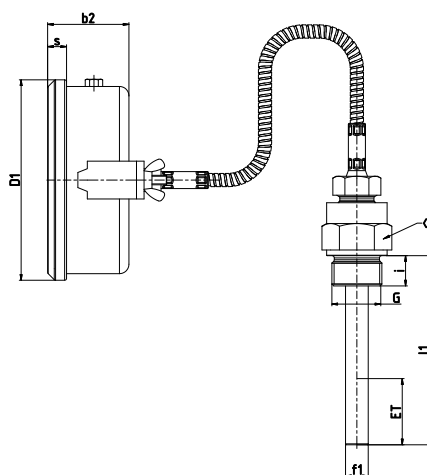
Type 320 TA rear mounting flange



Type 330 TE front mounting flange



Type 340 KL with U bracket



Dimensions

Dimensions [mm]											
NS	a1	b1	b2	D	D1	d1	d2	d3	s	s1	s2
80	18	48	42	79	86	95	110	4.8	8	5	1
100	18.5	49	43	99	106	116	132	4.8	10	6	1

Material

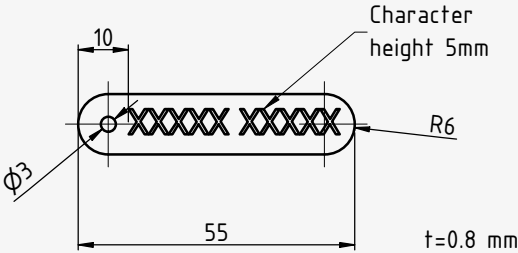

Material	
Housing	Bayonet ring, Stainless steel 1.4301 filled with silicone oil
Window	Instrument glass
Pointer movement	German silver / brass
Dial	Aluminium white with black scale markings
Pointer	Aluminium black
Capillary line	Stainless steel 1.4571
Material in contact with media	
Process connection	Stainless steel 1.4571
Immersion tube	Stainless steel 1.4571

Article numbers

Order code												
Thermometer version												
With wall bracket	Z	310										
With Rear mounting flange	Z	320										
With Front mounting flange	Z	330										
With With U bracket	Z	340										
Nominal size												
80 mm			B2									
100 mm			C2									
Display range												
-200...100 °C			F2									
-200...50 °C			A2									
-150...100 °C			E4									
-50...100 °C			F1									
-100...50 °C			95									
Immersion tube length l ₁		Nominal length L = l ₁ +45 mm										
100 mm		145 mm		100								
135 mm		180 mm		135								
160 mm		205 mm		160								
200 mm		245 mm		200								
250 mm		295 mm		250								
300 mm		345 mm		300								
400 mm		445 mm		400								
Connection type												
Connection type A, Plain immersion tube				1								
Connection type Ak, adjustable compression fitting				9								
Process connection												
Without - Plain immersion tube, Type A				0								
G½				2								
G¾				3								
½ NPT				B								
¾ NPT				C								
M20 x 1.5				7								
Immersion tube diameter												
Ø 12 mm				2								
Capillary line length												
1 m				1								
3 m				3								
5 m				5								
Other length (choose in meters)				—								
Capillary line material and protection												
Stainless steel, stainless steel-spiral protection				C								
Example order number		Z	310	B2	F2	100	1	0	2	1	C	

* Double scale °C and °F available on request.

Please use our order numbers for standard types or provide full technical specification in case of special non-standard thermometers

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