

# KombiTemp® // Head type J

-30...200 °C



K 110



K 120



## Highlights

- High measurement reliability due to two independent measuring points
- Fast detection of malfunctioning probes or dial thermometers in the system to be checked
- Low installation costs, advantages of the industrial thermometer

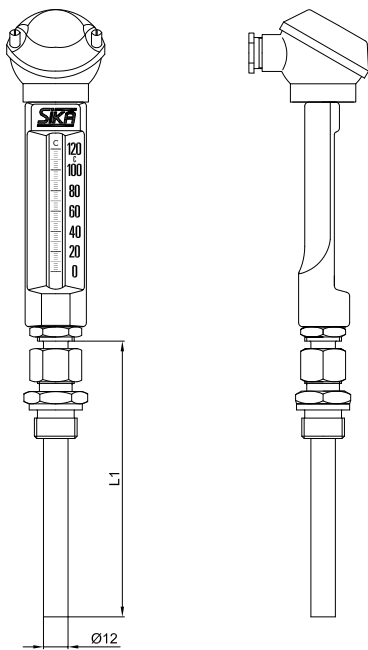
Technical data	
<b>Version</b>	Straight
<b>Dimensions housing</b>	110 x 30 mm
<b>Measuring range</b>	-30...200 °C
<b>Medium / Application</b>	Liquid and gaseous media
<b>Immersion tube length</b>	
→ Clamp connection	135 mm or 160 mm
→ Fixed thread connection	63 mm, 100 mm or 160 mm
<b>Immersion tube diameter</b>	12 x 1 mm
<b>Process connection</b>	
→ Clamp connection	G½
→ Fixed thread connection	G½ or M20 x 1.5
<b>Nominal pressure</b>	
→ Immersion tube brass	PN 16
→ Immersion tube stainless steel	PN 40
<b>Thermometer capillary</b>	Prismatic, Ø approx. 6 mm
<b>Thermometer filling</b>	
→ Blue	-30...200 °C
<b>Medium temperature</b>	Depending on measuring range
<b>Ambient temperature</b>	-20...60 °C (only for indoor use)
<b>Storage temperature</b>	-25...60 °C
<b>Degree of protection EN 60529</b>	IP65

Electrical data	
<b>Measuring element</b>	1 x Pt100 / 3-wire 1 x Pt1000 / 2-wire
<b>Accuracy</b>	Class B
<b>Electrical connection</b>	Head type J

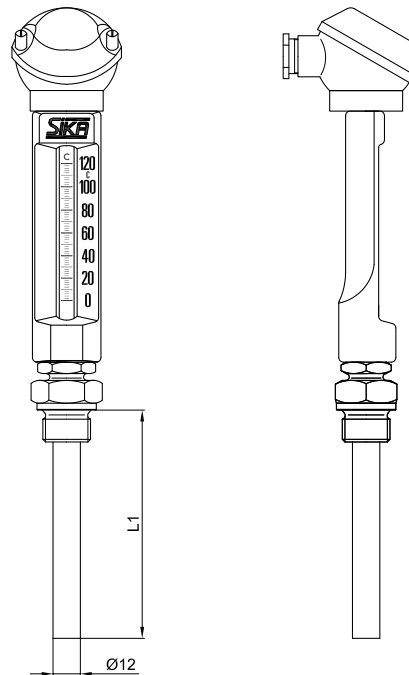
Options	
<b>For type</b>	<b>See order code</b>
<b>K 110 / K 120</b>	Analogue output 4...20 mA for 1 x Pt100

# Technical drawings

K 110



K 120



## Materials

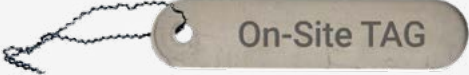
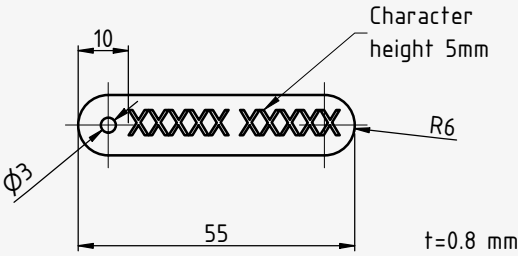
Materials	
<b>Not in contact with medium</b>	
<b>Housing</b>	Warm pressed aluminium part, silver anodized
<b>In contact with medium</b>	
<b>Process connection</b>	Brass or stainless steel 1.4571
<b>Immersion tube</b>	Brass or stainless steel 1.4571

# Article numbers

Order code									
<b>Type</b>									
<b>K110</b>									
Straight, clamp connection		K110							
<b>K120</b>									
Straight, fixed thread connection		K120							
<b>Display ranges</b>									
-30...50 °C		35							
0...60 °C		06							
0...100 °C		10							
0...120 °C		12							
0...160 °C		16							
0...200 °C		20							
<b>Immersion tube length L<sub>1</sub></b>									
<b>adjusted immersion depth</b>									
<b>Clamp connection (K 110)</b>									
135 mm		50 mm					135		
160 mm		73 mm					160		
<b>Fixed thread connection (K 120)</b>									
63 mm		063							
100 mm		100							
160 mm		160							
<b>Process connection</b>									
<b>Clamp connection (K 110)</b>									
G½		2							
<b>Fixed thread connection (K 120)</b>									
G½		2							
M20 x 1.5		7							
<b>Immersion tube material</b>									
Brass		1							
Stainless steel		3							
<b>Electrical temperature sensor</b>									
1x Pt100 / 3-wire / class B		1							
1x Pt1000 / 2-wire / class B		7							
<b>Head transmitter</b>									
Without		0							
4...20 mA*		1							
<b>Scale</b>									
°C		0							
<b>Example order number</b>		K110	35	135	2	1	1	0	0

\* Only for Pt100 / 3-wire / class B (however, for technical reasons, only 2 wires are connected)

# Accessories

Accessories	Article number
<p><b>Measuring point designation</b> Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points</p> <ul style="list-style-type: none"><li>→ <b>Scope of delivery:</b> Designation plate inscribed according to specification and enclosed fixing wire (sealing wire)</li><li>→ <b>Fastening:</b> Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery)</li><li>→ <b>Materials:</b> Plate stainless steel 1.4571, wire stainless steel</li><li>→ <b>Dimensions:</b> Plate 55 x 10 x 0.8 mm, wire length 180 mm</li><li>→ <b>Inscription:</b> one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes</li><li>→ <b>Transmission of designations:</b> digital list, file formats Excel, Word or CSV</li></ul>  	<p><b>ONSITETAG</b></p>