Bimetal thermometer
Standard version
Model 50

Applications

- Heating systems
- Hot water tanks
- Solar collectors

Special features

- Tolerance class 2 per EN 13190
- Nominal size 63, 80, 100 and 160
- Scale ranges from -30 ... +200 °C

Bimetal thermometer, model 50.20

Description

The model 50 bimetal thermometer is used mainly in heating, air-conditioning, ventilation and refrigeration technology and is suitable for a scale range up to 200 °C.

The bimetal thermometers are mounted into the respective application with screw-in thermowells. On the one hand, this protects the instrument, on the other hand, the measuring instrument can be exchanged without having to disrupt the process.

Standard version

Measuring element
Bimetal coil

Nominal size in mm
63, 80, 100 and 160

Connection design
Removable thermowell with retainer screw

Model overview

Model	NS	Connection location
50.10, 50.20	63	Back mount
	80	
	100	
50.10	160	

Scale ranges

Scale range in °C	Scale spacing in °C
-30 ... +50	1
-20 ... +60	1
-10 ... +50	1
0 ... 60	1
0 ... 80	1
0 ... 120	2
0 ... 160	2
0 ... 200	5

Indication accuracy
Class 2 per EN 13190

Permissible operating pressure at thermowell
Max. 6 bar

Connection location
Centre back mount (CBM)

Case
Model 50.10: Aluminium
Model 50.20: Steel, galvanised

Connection
Thermowell G ½ B, copper alloy

Stem
Model 50.10: Ø 9 mm, aluminium
from 160 °C or l_1 > 200 mm: copper alloy
Model 50.20: Ø 9 mm, copper alloy

Thermowell
Length l_1 = 40, 60, 100, 160, 200, 250, 300 mm
Copper alloy

Dial
Model 50.10: Aluminium, white, black lettering
Model 50.20: Plastic, white, black lettering

Pointer
≤ 120 °C: plastic, black
> 120 °C: aluminium, black

Window
SAN

Zero adjustment
At bottom of stem

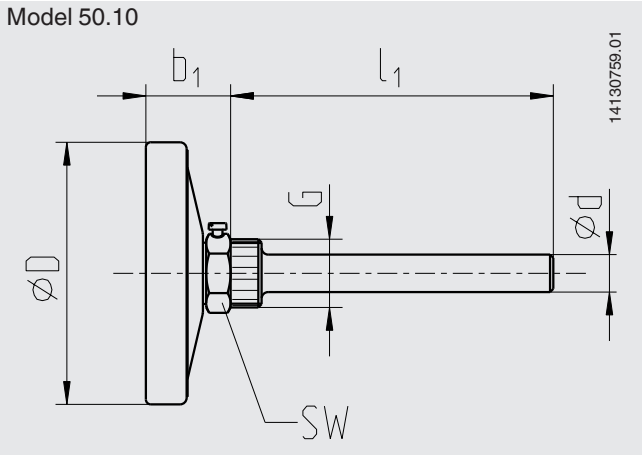
Options

- Other scale ranges
- Model 50.20: 7 mm stem diameter, copper alloy

Dimensions in mm

Standard version

Model 50.10

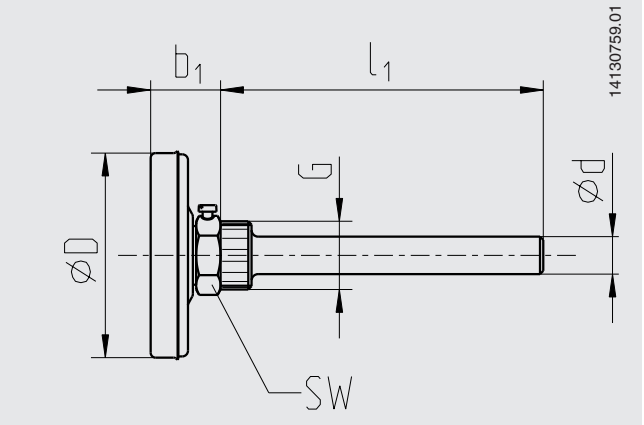


In addition, see the 3D data on the product details page at www.wika.com

NS	Dimensions in mm						Weight in kg
	b_1	Ø d	Ø D	G	l_1	SW	
63	24	11.5 [1)]	63	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.08
80	27	11.5 [1)]	80	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.10
100	30	11.5 [1)]	100	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.13
160	32	11.5 [1)]	160	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.28

1) Ø d = 11 for l_1 > 100 thermowell length

Model 50.20



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NS	Dimensions in mm						Weight in kg
	b_1	Ø d	Ø D	G	l_1	SW	
63	20	11.5 [1)]	63	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.09
80	22	11.5 [1)]	80	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.12
100	24	11.5 [1)]	100	G ½ B	40, 60, 100, 160, 200, 250, 300	21	0.17

1) Ø d = 11 for l_1 > 100 thermowell length

Approvals

Description	Country
CRN (option) Safety (e.g. electr. safety, overpressure, ...)	Canada

Certificates (option)

2.2 test report

Approvals and certificates, see website

Ordering information
Model / Nominal size / Scale range / Connection / Length l or l_1 / Options

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