Bimetal thermometer
Standard version
Model A50

for further approvals
see page 4

Applications

- Heating systems
- Hot water tanks
- Solar collectors

Special features

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

Bimetal thermometer, model A50.20

Description

The model A50 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.

Specifications

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
A50.10, A50.20	63	Back mount
	80	
	100	
A50.10	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

other scale ranges on request

Connection
Thermowell G ½ B, copper alloy

Stem
Model A50.10: Ø 9 mm, aluminium
from 160 °C or l_1 > 200 mm: copper alloy
Model A50.20: Ø 9 mm, copper alloy
Option: Ø 7 mm, copper alloy

Accuracy class
Class 2 per EN 13190

Case
Model A50.10: Aluminium
Model A50.20: Steel, galvanised

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

Dial
Model A50.10: Aluminium, white, black lettering
Model A50.20: Plastic, white, black lettering

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

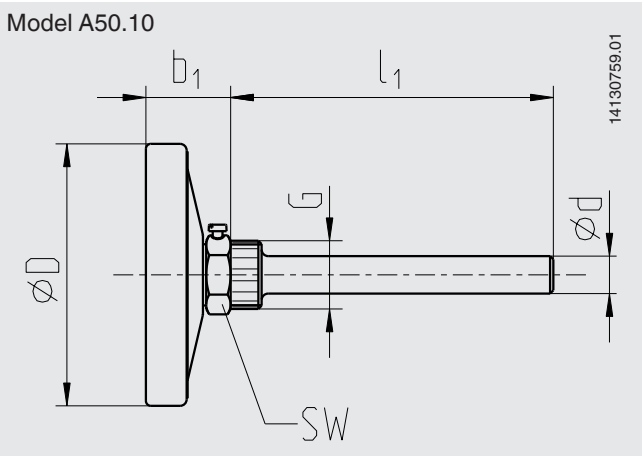
Window
SAN

Zero adjustment
At bottom of stem

Permissible operating pressure at thermowell
Max. 6 bar

Dimensions in mm

Model A50.10

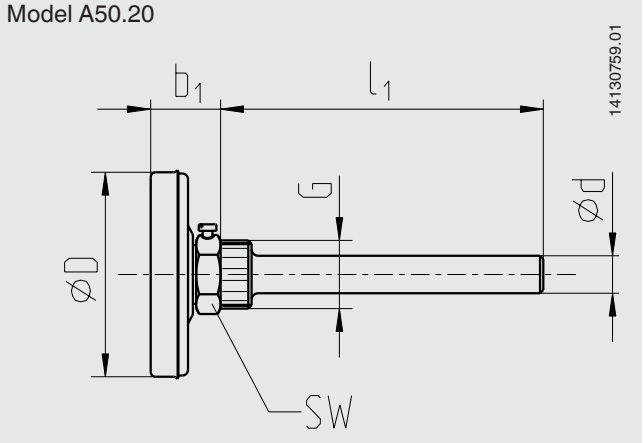


In addition, see the 3D data on the product details page at www.wika.com

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 A50.20



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	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

Logo	Description	Country
	GOST (option) Metrology, measurement technology	Russia
	KazInMetr (option) Metrology, measurement technology	Kazakhstan
-	**MTSCHS (option)** Permission for commissioning	Kazakhstan
	BelGIM (option) Metrology, measurement technology	Belarus
	UkrSEPRO (option) Metrology, measurement technology	Ukraine
	Uzstandard (option) Metrology, measurement technology	Uzbekistan
-	**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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