Bimetal thermometer For industrial heating Model 46

WIKA data sheet TM 46.02

Applications

- Heating systems
- Hot water tanks
- Solar power systems
- Heat transfer stations

Special features

- Reliable and cost-effective
- Nominal size 50, 63, 80 and 100
- Scale ranges from -30 ... +120 °C



Bimetal thermometer model A46.20.063



Bimetal thermometer model A46.11.063

Description

The bimetal thermometer model 46 is mainly used in the heating, air-conditioning and refrigeration equipment to monitor the process temperature.

The bimetal thermometers are screwed with thermowells in the respective application. On the one hand, this protects the instrument, on the other hand, the measuring instrument can be exchanged without prior emptying of the heating circuit.



Bimetal thermometer model A46.30.063

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Standard version

Measuring element

Bimetal coil

Nominal size in mm

50, 63, 80, 100

Working range

Full scale value

Case

Models A46.10, A46.11: Aluminium

Model A46.20: Steel, galvanised

Model A46.30: Plastic, black

Dial

Models A46.10, A46.11: Aluminium, white, black lettering Models A46.20, A46.30: Plastic, white, black lettering

Pointer

Models A46.10, A46.20, A46.30: Plastic, black Model A46.11: Aluminium, black

Window

Clear non-splintering plastic

Connection location

Back mount

Options

- Other measuring ranges
- Special scales
- Window: Instrument glass
- Designs for special applications on request

Connection designs

■ With thermowell (models A46.10, A46.20, A46.30)

Thermowell is removable, friction fit

Copper alloy

Length $I_1 = 40, 60, 100 \text{ mm}$

Permissible working pressure at thermowell max. 6 bar

Connection

thermowell G 1/2 B

Zero adjustment

At bottom of stem

Stem

Ø9 mm

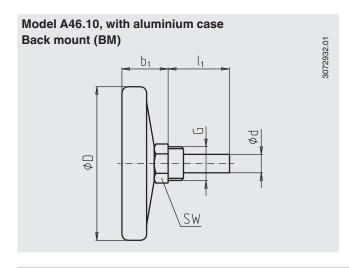
Models A46.10, A46.30: Aluminium Model A46.20: Copper alloy

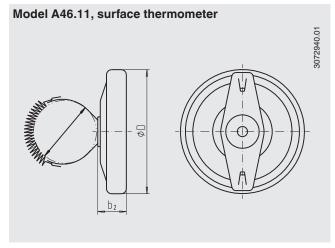
■ Clip-on design (model A46.11)

Clip-on plate with mounting clip for pipe diameter of 1" ... 2"

Dimensions in mm

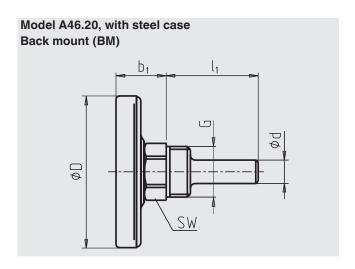
Standard version





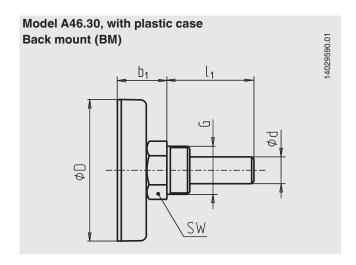
NS	Dimensions in mm						Weight in kg		
	b ₁	b ₂	Ød	ØD	G	l ₁	SW	Model A46.10	Model A46.11
63	23	21	12 ¹⁾	63	G ½ B	40, 60, 100	21	0.07	0.04
80	25	22	12 ¹⁾	80	G 1/2 B	40, 60, 100	21	0.08	0.06
100	30		12 ¹⁾	100	G 1/2 B	40, 60, 100	21	0.11	-

¹⁾ Ø d = 11 mm for thermowell length I_1 = 100 mm



NS	Dimensions	s in mm		Weight in kg			
	b ₁	Ød	ØD	G	l ₁	SW	
63	23	12 ¹⁾	63	G 1/2 B	40, 60, 100, 160	21	0.04
80	23	12 ¹⁾	80	G 1/2 B	40, 60, 100, 160	21	0.06
100	23	12 ¹⁾	100	G ½ B	40, 60, 100, 160	21	0.08

1) Ø d = 11 mm for thermowell length I_1 = 100 mm



NS	Dimension	Weight in kg					
	b ₁	Ød	ØD	G	I ₁	SW	
50	23	12 ¹⁾	50	G 1/2 B	40, 60, 100, 160 ²⁾	21	0.06
63	23	12 ¹⁾	63	G 1/2 B	40, 60, 100, 160 ²⁾	21	0.07
80	24.5	12 ¹⁾	80	G 1/2 B	40, 60, 100, 160 ²⁾	21	0.08
100	24.5	12 ¹⁾	100	G 1/2 B	40, 60, 100, 160 ²⁾	21	0.10

¹⁾ Ø d = 11 mm for thermowell length > 100 mm 2) I_1 = 160 mm only for thermowell with retainer screw

Approvals (option)

■ CRN, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates

- 2.2 test report
- 3.1 inspection certificate

Approvals and certificates, see website

Ordering information

Model / Nominal size / Scale range / Connection / Length I₁ / Options

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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