BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES
Pressure & Vacuum
Flow
Level & Temperature
Tube & Fittings
HVACR
Custom Services

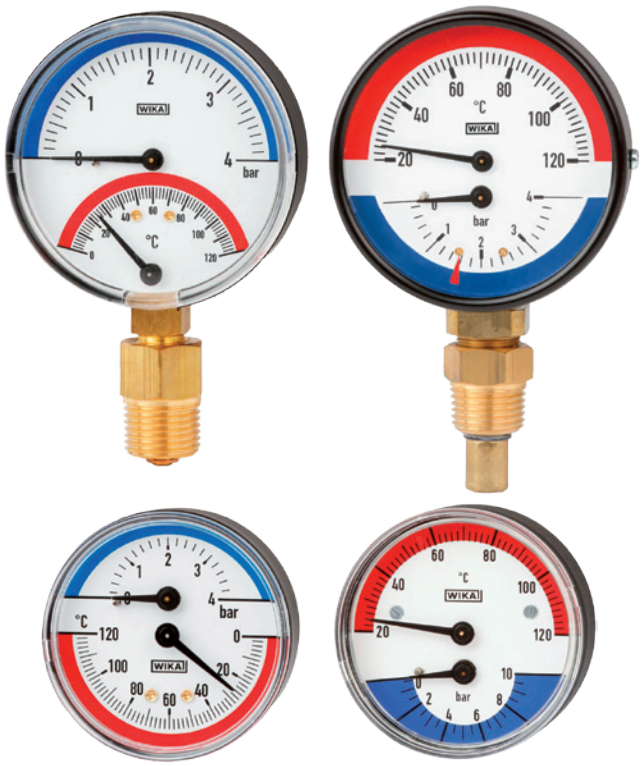
Bimetal thermomanometer
For pressure and temperature measurement
Models 100.0x and 100.1x

Applications

- Heating systems
- Combi-boilers with hot water and heating

Special features

- Combined indication for pressure and temperature
  Model 100.01: At the top pressure, at the bottom temperature, temperature scale bent downward
  Model 100.02: At the top pressure, at the bottom temperature
  Models 100.10 and 100.12: At the top temperature, at the bottom pressure
- Scale ranges to 0 … 16 bar, 0 ... 150 °C



Bimetal thermomanometer
Fig. top left: Model 100.01.80, lower mount
Fig. bottom left: Model 100.02.63, back mount
Fig. top right: Model 100.10.80, lower mount, with slip-on bezel option
Fig. bottom right: Model 100.12.63, back mount

Description

The thermomanometer with bimetal system is fitted directly at the measuring point via a stem. The valve allows the measuring instrument to be unscrewed without having to empty the heating system first. Due to the combination of a pressure gauge and a bimetal thermometer the instrument can be used flexibly in a wide variety of applications.

Nominal size in mm
63, 80

Accuracy class
- Pressure: 2.5 (EN 837-1)
- Temperature: ±2.5 °C

Scale ranges
- Pressure: 0 ... 1 to 0 ... 16 bar
- Temperature: 0 ... 100 to 0 ... 150 °C

Working ranges
- Pressure: Steady: 3/4 x full scale value
  Fluctuating: 2/3 x full scale value
  Short time: Full scale value
- Temperature: Full scale value

Measuring elements
- Pressure: Bourdon tube, copper alloy
- Temperature: Bimetal coil, copper alloy

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Standard version

Process connection
R 1/2 ISO 7 (male), 22 mm flats
Models 100.01, 100.10: Lower mount (LM) [1)]
Models 100.02, 100.12: Centre back mount (CBM)

1) Not for NS 63

Case
Models 100.01, 100.02: Plastic, black
Models 100.10, 100.12: Steel, black lacquered

Movement
Copper alloy

Dial
Aluminium, white, black lettering
Pressure scale marked in blue, temperature scale marked in red
Models 100.01, 100.02: At the top pressure, at the bottom temperature (model 100.01: Temp. scale bent downward)
Models 100.10, 100.12: At the top temperature, at the bottom pressure

Pointer
Aluminium, black

Window
Plastic, crystal-clear, snap-fitted

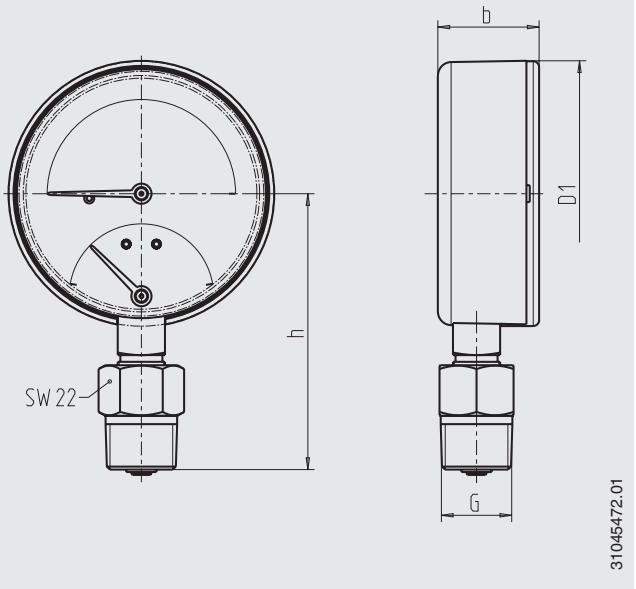
Options

- Other process connection
- Models 100.01, 100.02: Case steel, black lacquered
- Models 100.10, 100.12: Slip-on bezel steel, black or chrome plated, or stainless steel, natural finish or polished
- Shut-off valve, copper alloy
- Model 100.10: Instrument glass (with slip-on bezel)
- Other scale ranges
- Special scales

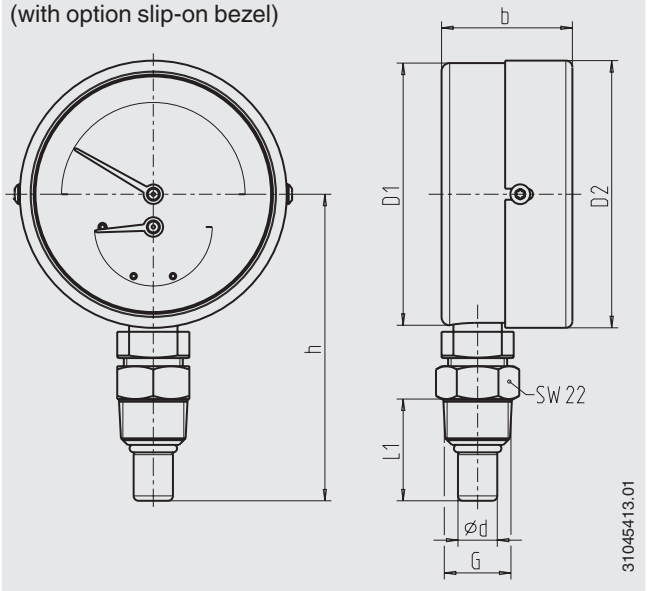
Dimensions in mm

Standard version

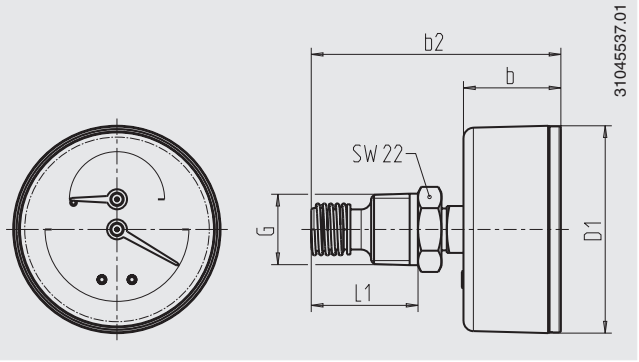
Model 100.01.80, lower mount (LM)



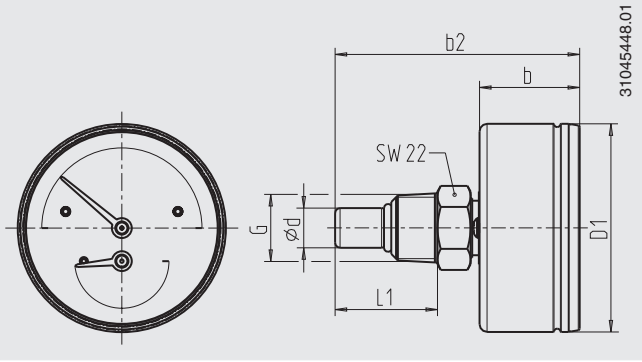
Model 100.10.80, lower mount (LM)
(with option slip-on bezel)



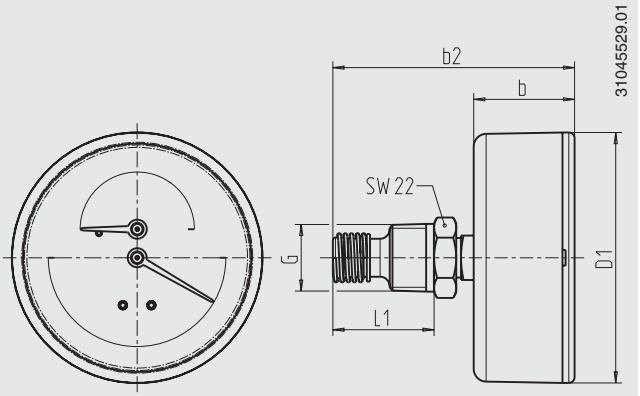
Model 100.02.63, centre back mount (CBM)



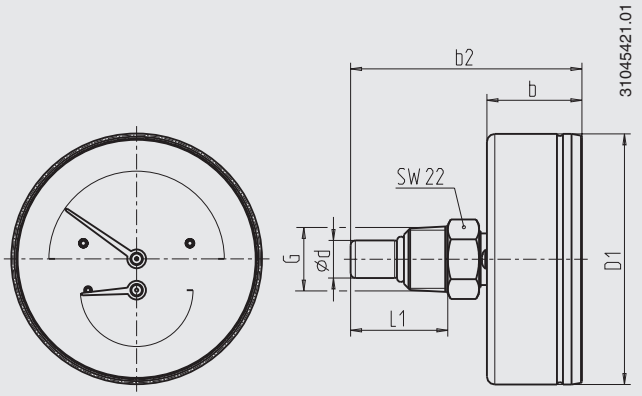
Model 100.12.63, centre back mount (CBM)



Model 100.02.80, centre back mount (CBM)



Model 100.12.80, centre back mount (CBM)



Model	NS	Dimensions in mm									Weight in kg
		b	b2	d	D1	D2	G	h	L1	SW	
100.01	**80**	30	-	-	79	-	R 1/2 ISO 7	82	-	22	0.2
100.10	**80**	40	-	12	80	81.5	R 1/2 ISO 7	94	31	22	0.3
100.02	**63**	29	74	-	62	-	R 1/2 ISO 7	-	32	22	0.2
100.02	**80**	32	76	-	79	-	R 1/2 ISO 7	-	32	22	0.2
100.12	**63**	30	74	12	63	-	R 1/2 ISO 7	-	31	22	0.2
100.12	**80**	30	74	12	80	-	R 1/2 ISO 7	-	31	22	0.3

Ordering information

Model / Nominal size / Scale ranges (pressure and temperature) / Process connection / Connection location / Options

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