

Bourdon tube pressure gauge

Test gauge series, class 0.6

Models 311.11, 331.11

WIKA data sheet PM 03.02



for further approvals
see page 2

Applications

- For gaseous and liquid media that are not highly viscous or crystallising
- Model 311.11: Measuring system copper alloy
Model 331.11: Measuring system stainless steel, also for aggressive media
- Precision measurement in laboratories
- High-accuracy pressure measurement
- Testing of industrial type pressure gauges

Special features

- Knife edge pointer for optimal accuracy of reading
- Precise movement with wear parts of argentan
- Particularly easy-to-read scale due to nominal size 250
- Scale ranges up to 0 ... 1,600 bar



Test gauge series model 311.11

Description

Design

EN 837-1

Nominal size in mm

250

Accuracy class

0.6

Scale ranges

Model 311.11: 0 ... 0.6 to 0 ... 600 bar

Model 331.11: 0 ... 0.6 to 0 ... 1,600 bar

or all other equivalent vacuum or combined pressure and vacuum ranges

Adjustment medium

≤ 25 bar: Gas

> 25 bar: Liquid

Pressure limitation

Steady: Full scale value

Fluctuating: 0.9 x full scale value

Short time: 1.3 x full scale value

Permissible temperature

Ambient: -40 ... +60 °C

Medium: +80 °C maximum (model 311.11)

+200 °C maximum (model 331.11)

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.4 %/10 K of full scale value

Ingress protection

IP54 per IEC/EN 60529

Standard version

Process connection

Model 311.11: Copper alloy

Model 331.11: Stainless steel

Lower mount (radial) or lower back mount

G ½ B (male), SW 22

Pressure element

Model 311.11:

< 100 bar: Copper alloy

≥ 100 bar: Stainless steel 316L

≥ 1,000 bar: Ni-Fe alloy

Model 331.11: Stainless steel 316L

Movement

Copper alloy, wear parts argentan

Dial

Aluminium, white, black lettering

Pointer

Knife edge pointer, aluminium, black

Case

Steel, black

Window

Instrument glass







Bezel ring

Slip-on bezel, steel, black

Options

- Other process connection
- Window from laminated safety glass or clear non-splintering plastic
- Panel or surface mounting flange, steel, black
- Higher indication accuracy: Class 0.25 per EN 837 or grade 3A per ASME B 40.1 for scale ranges ≤ 400 bar
- Adjustment medium gas from scale range ≥ 25 bar

Approvals

Logo	Description	Country
	EU declaration of conformity Pressure equipment directive, PS > 200 bar; module A, pressure accessory	European Union
	EAC (option) Pressure equipment directive	Eurasian Economic Community
	GOST (option) Metrology, measurement technology	Russia
	KazInMetr (option) Metrology, measurement technology	Kazakhstan
-	MTSCHS (option) Permission for commissioning	Kazakhstan
	BelGIM (option) Metrology, measurement technology	Belarus
	Uzstandard (option) Metrology, measurement technology	Uzbekistan
-	CPA (option) Metrology, measurement technology	China
-	CRN Safety (e.g. electr. safety, overpressure, ...)	Canada

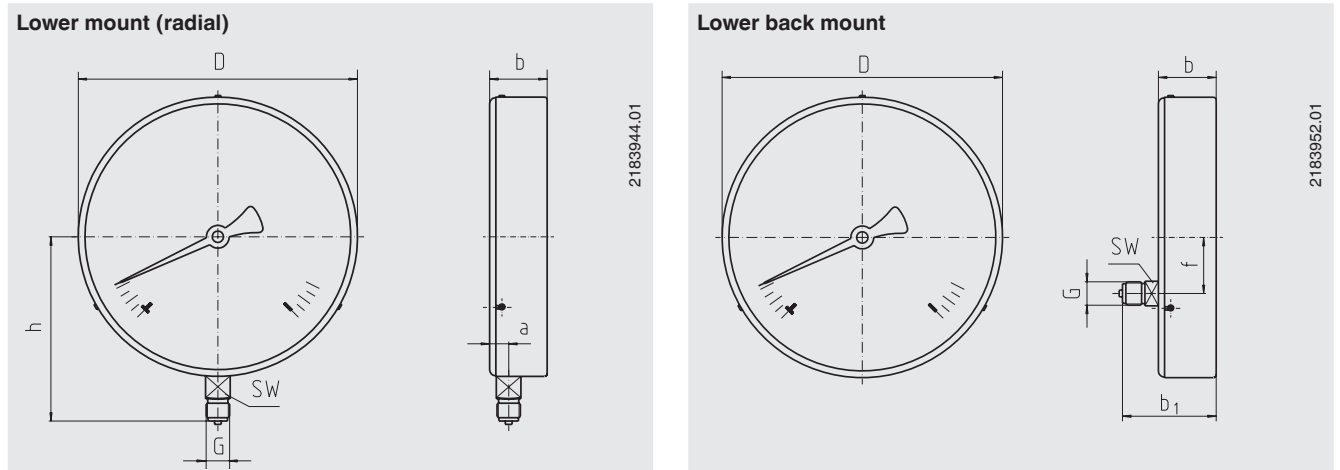
Certificates (option)

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metallic parts, indication accuracy)
- DKD/DAkkS certified accuracy

Approvals and certificates, see website

Dimensions in mm

Standard version



NS	Dimensions in mm								Weight in kg
	a	b	b ₁	D	f	G	h ±1	SW	
250	17	51.5 ¹⁾	83.5 ¹⁾	250	50	G ½ B	165	22	3.0

Process connection per EN 837-1 / 7.3
 1) Plus 13 mm with scale ranges ≥ 100 bar

Ordering information

Model / Nominal size / Scale range / Process connection / Connection location / Options

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