

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

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



Test gauge series model 311.11

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

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

Case

Steel, black

Window

Instrument glass

Bezel ring

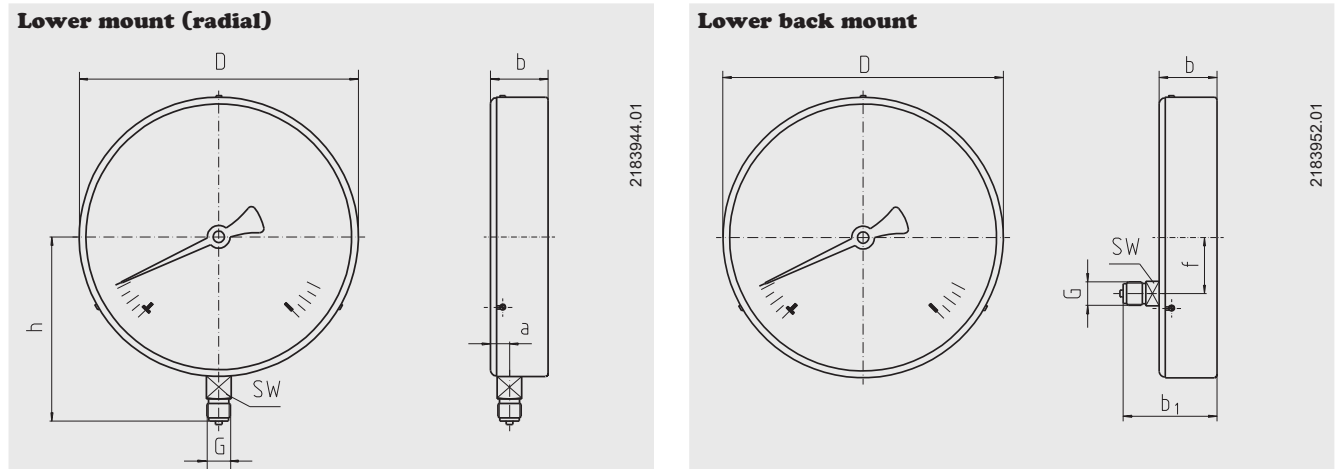
Slip-on bezel, steel, black

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

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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