

Test gauge, copper alloy

Class 0.6, NS 160

Model 312.20

WIKA data sheet PM 03.01



for further approvals
see page 2

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- 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
- Scale ranges up to 0 ... 600 bar



Test gauge series model 312.20

Description

Design

EN 837-1

Nominal size in mm

160

Accuracy class

0.6

Scale ranges

0 ... 0.6 to 0 ... 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

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

Cu-alloy,
lower mount (LM) or lower back mount (LBM), G ½ B (male),
22 mm flats

Pressure element

< 100 bar: Cu-alloy, C-type
≥ 100 bar: Stainless steel 316L, helical type

Movement

Cu-alloy, wear parts argentan

Dial

Aluminium, white, black lettering

Pointer

Knife edge pointer, aluminium, black

Case

Stainless steel

Window

Instrument glass







Bezel ring

Cam ring (bayonet type), stainless steel

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Liquid filling (model 333.50, data sheet PM 03.06)
- Increased medium temperature to 100 °C with special soft solder
- Increased medium temperature to 200 °C (data sheet PM 03.06)
- Panel or surface mounting flange, stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Higher indication accuracy: Class 0.25 per EN 837 or grade 3A per ASME B40.1 for scale ranges ≤ 400 bar
- Mirror band scale
- Zero point settable from outside (adjustable dial)
- Adjustment medium gas from scale ranges ≥ 25 bar
- Transport case

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
-	MTSCHS (option) Permission for commissioning	Kazakhstan
	BelGIM (option) Metrology, measurement technology	Belarus
	UkrSEPRO (option) Metrology, measurement technology	Ukraine
	Uzstandard (option) Metrology, measurement technology	Uzbekistan
-	CPA (option) Metrology, measurement technology	China
-	CRN Safety (e.g. electr. safety, overpressure, ...)	Canada

Certificates (option)

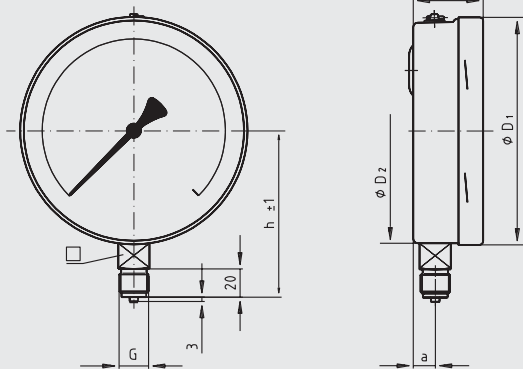
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

Dimensions in mm

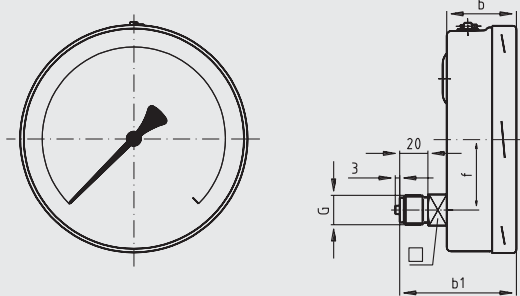
Standard version

Lower mount (LM)



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Lower back mount (LBM)



NS	Dimensions in mm									Weight in kg
	a	b	b ₁	D ₁	D ₂	f	G	h ± 1	SW	
160	15.5	49.5 ¹⁾	83 ¹⁾	161	159	50	G ½ B	118	22	1.10

Process connection per EN 837-1 / 7.3
 1) Plus 16 mm with scale ranges ≥ 100 bar

Ordering information

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

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