Test gauge, copper alloy or stainless steel
For low pressure ranges to 600 mbar, class 0.6
Models 610.20 and 630.20, NS 160

for further approvals
see page 3

Applications

- Precision measurement in laboratories
- High-accuracy pressure measurement
- For gaseous, dry and non-aggressive media
- Model 630.20 also for aggressive media

Special features

- Zero point setting in front
- Special connection location on request
- Low scale ranges from 0 ... 10 mbar

Test gauge model 610.20

Description

As class 0.6 test gauge series, the model 610.20 and 630.20 capsule pressure gauges are suitable for precision measurements in laboratories. They are based upon the proven capsule measuring system. On pressurisation, the expansion of the capsule element, proportional to the incident pressure, is transmitted to the movement and indicated.

The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges. Due to this high variance, the instrument is suitable for use in a wide range of applications within industry.

For mounting in control panels, the capsule pressure gauges can, depending on the process connection, be fitted with a surface mounting flange or with a triangular bezel and mounting bracket.

Standard version

Design
EN 837-3

Nominal size in mm
160

Accuracy class
0.6

Scale ranges
0 ... 10 mbar to 0 ... 600 mbar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation
Steady: Full scale value
Fluctuating: 0.9 x full scale value

Permissible temperature
Ambient: -20 … +60 °C
Medium: ≤ 60 °C

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.6 %/10 K of full scale value

Ingress protection per IEC/EN 60529
IP54

Process connection
Model 610.20: Copper alloy
Model 630.20: Stainless steel
Lower mount or lower back mount
G ½ B (male), SW 22

Pressure element
Dual capsule element, stainless steel

Movement
Copper alloy, with ball bearing

Zero point setting
In front

Dial
Aluminium, white, black lettering

Pointer
Knife edge pointer, aluminium, black

Case
Stainless steel

Window
Clear non-splintering plastic

Ring
Bayonet ring, stainless steel

Options

- Other process connection
- Stainless steel movement, with ball bearing
- Overload or vacuum safety with
  scale ranges < 40 mbar: 3 x full scale value
  scale ranges ≥ 40 mbar: 10 x full scale value
- Panel or surface mounting flange, stainless steel
- Triangular bezel with clamp, stainless steel
- Instrument glass or laminated safety glass window
- Bayonet lock bezel with lead seal

Approvals

Logo	Description	Country
	GOST (option) Metrology, measurement technology	Russia
	KazInMetr (option) Metrology, measurement technology	Kazakhstan
-	**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

Certificates (option)

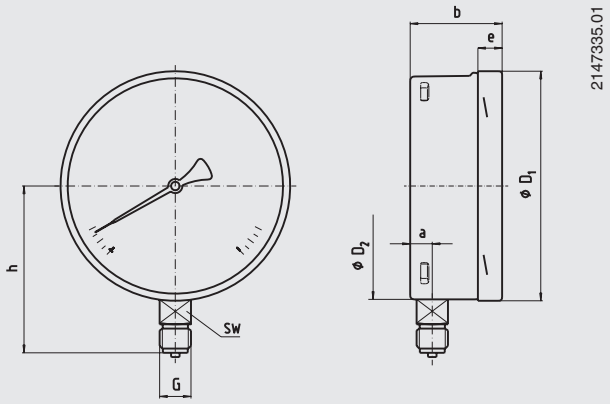
- 2.2 test report
- 3.1 inspection certificate

Approvals and certificates, see website

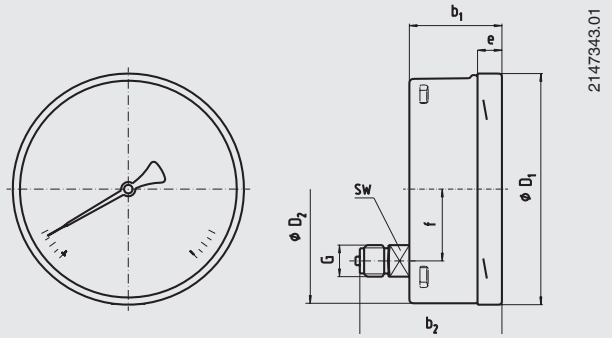
Dimensions in mm

Standard version

Lower mount (radial)



Lower back mount



NS	Dimensions in mm											Weight in kg
	a	b	b_1	b_2	D_1	D_2	e	f	G	h ± 1	SW	
160	15.5	65.5	65.5	99	161	159	17.5	50	G ½ B	118	22	1.20

Process connection per EN 837-3 / 7.3

Ordering information

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