Capsule pressure gauge, copper alloy or stainless steel
Edgewise panel design
Models 614.11, 634.11

for further approvals
see page 4

Applications

- For gaseous, dry and non-aggressive media that will not attack copper alloy parts
- Model 614.11: Measuring system copper alloy
  Model 634.11: Measuring system stainless steel, also for aggressive media

Special features

- Low scale ranges from 0 ... 2.5 mbar
- Panel mounting
- Zero point setting in front

Capsule pressure gauge, edgewise panel design, model 614.11

Description

The model 614.11 and 634.11 capsule pressure gauges are based upon the proven capsule measuring system. The capsule measuring principle is particularly suitable for low pressures. 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, regarding design and back mount connection, the instrument is suitable for panel mounting in a wide range of applications.

Data sheets showing similar products:
Bourdon tube pressure gauge, edgewise panel design, model 214.11; see data sheet PM 02.07

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Standard version

Design
DIN 43700

Nominal size in mm
72 x 72, 96 x 96, 144 x 144 and 144 x 72

Accuracy class
1.6

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

Permissible temperature
Ambient: -20 ... +60 °C
Medium: +100 °C maximum

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

Scale ranges

NS	Scale ranges in mbar			
	Model 614.11		Model 634.11	
72 x 72	0 ... 25	to 0 ... 600	0 ... 40	to 0 ... 600
96 x 96	0 ... 10	to 0 ... 600	0 ... 40	to 0 ... 600
144 x 144	0 ... 6	to 0 ... 600	-	
144 x 72	0 ... 4	to 0 ... 600	0 ... 2.5	to 0 ... 600

or all other equivalent vacuum or combined pressure and vacuum ranges

Ingress protection per IEC/EN 60529
IP42

Process connection
Model 614.11: Copper alloy
Model 634.11: Stainless steel
Back mount
NS 72 x 72 and 96 x 96: G ¼ B (male), SW 14
NS 144 x 144: G ½ B (male), SW 22
NS 144 x 72: G ½ B (male), SW 17

Pressure element
Model 614.11: Copper alloy
Model 634.11: Stainless steel

Sealing
Model 614.11: NBR
Model 634.11: Viton®

Movement
Copper alloy, wear parts argentan, with zero adjustment

Dial
Aluminium, white, black lettering

Pointer
Aluminium, black

Case (DIN 43700)
NS 72 x 72, 96 x 96, 144 x 144: Steel, galvanised
NS 144 x 72: Steel, black

Window
NS 144 x 72: Instrument glass
NS 72 x 72, 96 x 96 and 144 x 144: Clear non-splintering plastic

Panel frame (DIN 43718)
Steel, black, narrow, snap-fit

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Overload or vacuum safety with
  scale ranges < 40 mbar: 3 x full scale value
  scale ranges ≥ 40 mbar: 10 x full scale value
- Wide panel frame

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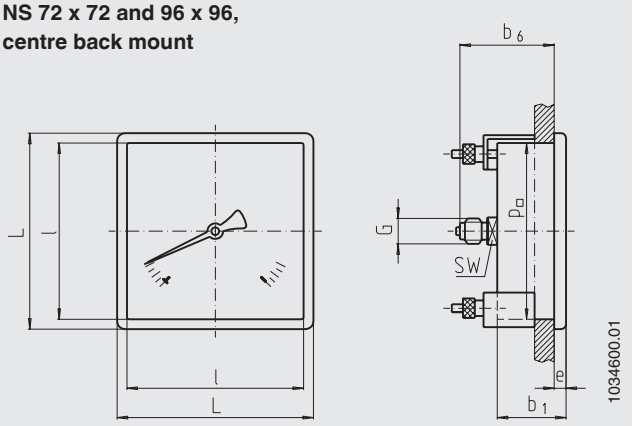
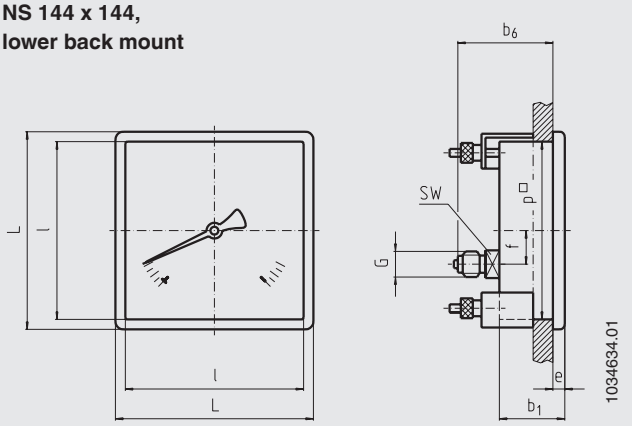
Dimensions in mm

Standard version

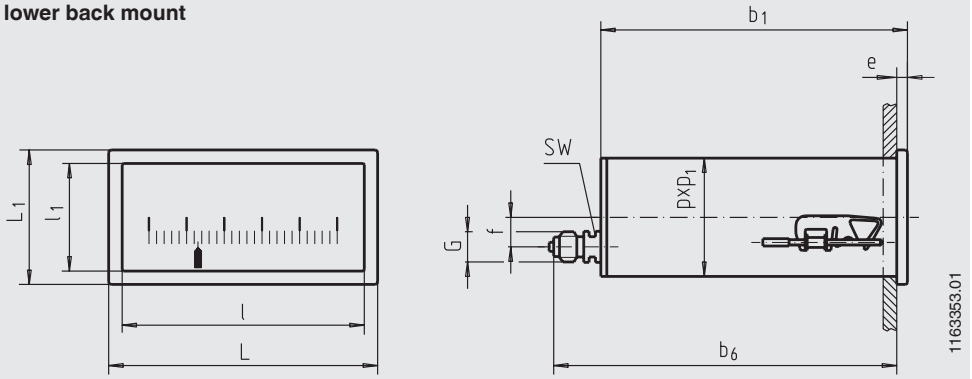
NS 72 x 72 and 96 x 96,
centre back mount



NS 144 x 144,
lower back mount



NS 144 x 72,
lower back mount



NS	Dimensions in mm												Weight in kg
	b_1	b_6	e	f	G	L	L_1	l	l_1	p x p_1	p□	SW	
72 x 72	36.5	50	6	-	G ¼ B	72	-	62	-	-	66	14	0.30
96 x 96	39	50	6	-	G ¼ B	96	-	79	-	-	88.5	14	0.40
144 x 144	46.5	71.5	8	30	G ½ B	144	-	134	-	-	136	22	0.90
144 x 72	168	197	8	18	G ½ B	144	72	134	62	138 x 67	-	17	1.60

Process connection per EN 837-3 / 7.3

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

Ordering information

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

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