

Bourdon Tube Pressure Gauge Edgewise Panel Design Type 214.11 Copper Alloy Wetted Parts Type 234.11 Stainless Steel Wetted Parts

WIKA Datasheet 2X4.11



Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Model 214.11: Measuring system Cu-alloy
Model 234.11: Measuring system stainless steel, also for aggressive media

Product features

- Panel mounting
- Square and rectangular shaped

Specifications

Design

DIN 43700

Nominal size

2.8" x 2.8" (72 mm x 72 mm), 3.8" x 3.8" (96 mm x 96 mm),
5.7" x 5.7" (144 mm x 144 mm), 5.7" x 2.8" (144 mm x 72 mm)

Accuracy

(+/-) 1.0%: 5.7" x 5.7" (144 mm x 144 mm), 5.7" x 2.8"
(144 mm x 72 mm), 3.8" x 3.8" (96 mm x 96 mm)
(+/-) 1.6%: 2.8" x 2.8" (72 mm x 72 mm),
3.8" x 3.8" (96 mm x 96 mm)

Scale ranges

5.7" x 5.7" (144 mm x 144 mm), 5.7" x 2.8" (144 mm x 72 mm),
3.8" x 3.8" (96 mm x 96 mm): 0 ... 10 psi (0.6 bar) to
15,000 psi (1000 bar)
2.8" x 2.8" (72 mm x 72 mm): 0 ... 10 psi (0.6 bar) to
6,000 psi (400 bar)
or all other equivalent or combined vacuum or combined
pressure and vacuum ranges

Permissible temperature

Ambient: -4 °F ... +140 °F (-20 °C ... +60 °C)
Medium: +140 °F (+60 °C) maximum (soft soldered)
+212 °F (+100 °C) maximum (brazed)



**Bourdon tube pressure gauge, edgewise panel design
Type 214.11**

**Top figure: size 3.8" x 3.8" (96 mm x 96 mm),
Bottom figure: 5.7" x 2.8" (144 mm x 72 mm)**

Pressure limitation

- Size 144 x 72, 144 x 144, 96 x 96
Steady: Full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value
- Size 72 x 72
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

Temperature error

Additional error when temperature changes from reference
temperature of 68°F (20°C) ±0.4% of span for every 18°F
(10°K) rising or falling.

Ingress protection

IP 42 per EN 60529 / IEC 529

Standard version

Process connection

Cu-alloy (> 1500 psi/100 bar stainless steel 316L),
lower back mount (LBM)
Size 144 x 72: 1/2" NPT/17 mm wrench flat
Size 144 x 144, 96 x 96: 1/2" NPT/22 mm wrench flat

Centre back mount (CBM)

Size 72 x 72: 1/4" NPT/14 mm wrench flat

Pressure element

< 1500 psi (100 bar): Cu-alloy, C-type, soft soldered
≥ 1500 psi (100 bar): Stainless steel 316L, helical
or spiral type, brazed

Movement

Cu-alloy, wear parts argantan

Dial

Aluminium, white, black lettering
Size 72 x 72 and 96 x 96 with pointer stop pin

Pointer

Aluminium, black

Case / Chassis (DIN 43700)

Size 144 x 72: Case, steel, black
Chassis, steel, galvanised
Size 72 x 72, 96 x 96, 144 x 144: Case, steel, galvanised

Basic case

Plastic

Window

Instrument glass

Panel frame

Steel, black, narrow, snap-fit

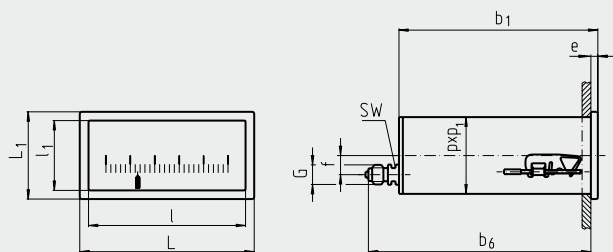
Options

- Other process connection
- Measuring system stainless steel 316L (model 234.11)
- Duplex measuring system
 - with size 144 x 72
 - with size 96 x 96: max. 60 bar
- Wide panel frame
- Switch contacts

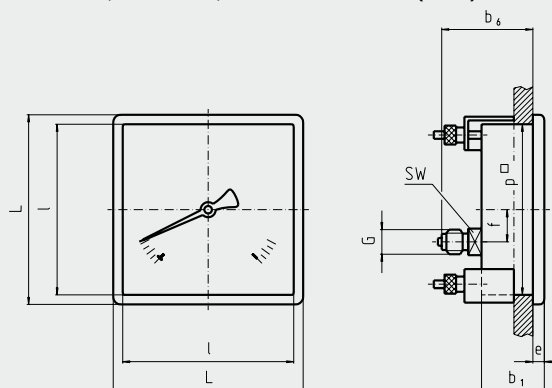
Dimensions in mm

Standard version

Size 144 x 72, lower back mount (LBM)



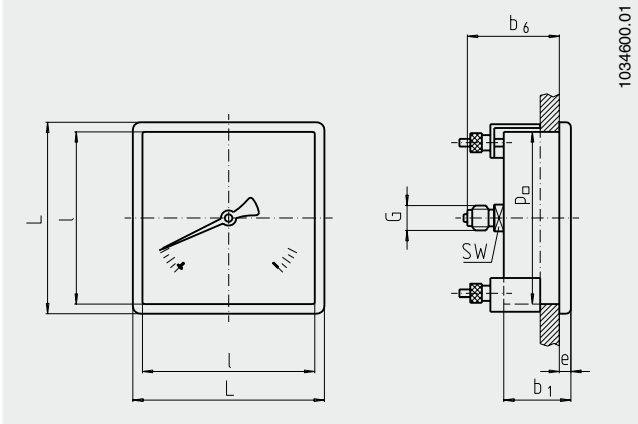
Size 96 x 96, 144 x 144, lower back mount (LBM)



Size	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	
144 x 72	168	197	8	18	G ½ B	144	72	134	62	138 x 67	-	17	1.50
96 x 96	44	72	6	30	G ½ B	96	-	88	-	-	90	22	0.60
144 x 144	46.5	72	8	30	G ½ B	144	-	134	-	-	136	22	1.25

Process connection per EN 837-1 / 7.3

NS 72 x 72, centre back mount (CBM)



NS	Dimensions in mm				G	L	L ₁	l	l ₁	p × p ₁	p _□	SW	Weight in kg
	b ₁	b ₆	e	f									
72 x 72	29	42	6	-	G 1/4 B	72	-	62	-	-	66	14	0.30

Process connection per EN 837-1 / 7.3

Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.



WIKAI Instrument, LP
1000 Wiegand Boulevard
Lawrenceville, GA 30043-5868
Tel: 888-WIKA-USA • 770-513-8200
Fax: 770-338-5118
E-Mail: info@wika.com
www.wika.com