Standard pressure gauge

with plastic housing and dual scale in bar/psi

PLUS

Art. No. 184787

Type No. 218-KD.MSB

Exemplary illustration

Bourdon tube pressure gauge in standard version made of brass with low lead content (Pb < 0.1%) in accordance with the RoHS Directive 2011/65/EU.
The pressure gauge is equipped with a PTFE seal on the process connection thread.
Suitable for gaseous and liquid media that are non-highly viscous and non-crystallizing and that do not attack copper alloys.
Suitable for drinking water applications.

Technical data

WIKA type	PG11LF
Housing	plastic
Connection position	rear, centrical
Diameter	63 mm
Thread	G 1/4 ET
Accuracy class	1.6
Measuring range	0 to 16 bar
Scale graduation in the bar area	0.5 bar
Measuring range	0 - 230 psi
Medium temperature	-20 to 60 °C
Ambient temperature	-20 to 60 °C
Measuring element	lead-free copper alloy (Pb <0.1%)
Movement	lead-free copper alloy (Pb <0.1%)
Front glass	plastic
Material process connection	lead-free copper alloy (Pb <0.1%)
Lead-free brass (lead content <0.1%)	yes

RIEGLER & Co. KG
Schützenstraße 27
72574 Bad Urach
Tel. +49 7125 9497-642
technik@riegler.de

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Commercial data

Customs tariff number	90262040
Country of origin	PL
eCl@ss 5.1.4	27200601
eCl@ss 9.0	27200601
UNSPSC_Code_v190501	41103311
UNSPSC_CodeDesc_v190501	Manometers

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Bourdon tube pressure gauge, copper alloy
Low-lead version
Model PG11LF

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Drinking water

Special features

- Design per EN 837-1 or ASME B40.100
- Wetted parts with low-lead content for drinking water
- Low-lead version, in line with upcoming RoHS directive requirements
- Nominal sizes of 40 [1 ½"], 50 [2"] and 63 [2 ½"] available
- Scale ranges to 0 ... 60 bar [0 ... 800 psi]

Fig. left: model PG11LF, back mount
Fig. right: model PG11LF, lower mount (radial)

Description

The model PG11LF pressure gauges are based on the proven Bourdon tube measuring system. The deflection of the Bourdon tube is transmitted to a movement and indicated.

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

The model PG11LF was designed for use in all applications requiring copper alloy materials with low-lead content. It is in line with upcoming EU regulations regarding the Drinking Water Directive (DWD) and the Restriction of Hazardous Substances Directive (RoHS).

All materials used in the wetted parts are listed on the European positive list of individual metallic compositions for metallic materials, as detailed in Commission Implementing Decision (EU) 2024/367.

WIKA
Smart in sensing

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Specifications

Basic information	
Standard	■ EN 837-1 ■ ASME B40.100 → For information on the “Selection, installation, handling and operation of pressure gauges”, see technical information IN 00.05.
Nominal size (NS)	■ Ø 40 mm [1 ½"] ■ Ø 50 mm [2"] ■ Ø 63 mm [2 ½"]
Connection location	■ Lower mount (radial) ■ Centre back mount
Window	Plastic, crystal-clear, snap-fitted in case
Case	
Design	■ Without safety level ■ Safety level “S1” per EN 837-1: with blow-out device
Material	■ Plastic, black ■ Steel, black
Mounting	■ Without ■ Panel mounting flange ■ Surface mounting flange [1]
Movement	■ Copper alloy ■ Copper alloy with low-lead content [2]

1) Only available for NS 63 [2 ½"].
2) In line with upcoming RoHS directive requirements

Measuring element	
Type of measuring element	Bourdon tube, C-type or helical type
Material	Copper alloy [1]
Leak tightness	Leakage rate: < $5 \cdot 10^{-3}$ mbar l/s

1) The used copper alloy contains less than 0.1 % lead by weight.

Accuracy specifications	
Accuracy class	
EN 837-1	■ Class 1.6 ■ Class 2.5
ASME B40.100	Grade B
Temperature error	On deviation from the reference conditions at the measuring system: ≤ ±0.4 % per 10 °C [≤ ±0.4 % per 18 °F] of full scale value
Reference conditions	
Ambient temperature	+20 °C [68 °F]

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Scale ranges

bar	
0 ... 0.6	0 ... 10
0 ... 1	0 ... 16
0 ... 1.6	0 ... 20
0 ... 2.5	0 ... 25
0 ... 4	0 ... 40
0 ... 6	0 ... 60

kg/cm²	
0 ... 0.6	0 ... 10
0 ... 1	0 ... 16
0 ... 1.6	0 ... 20
0 ... 2.5	0 ... 25
0 ... 4	0 ... 40
0 ... 6	0 ... 60

kPa	
0 ... 60	0 ... 1,000
0 ... 100	0 ... 1,600
0 ... 160	0 ... 2,000
0 ... 250	0 ... 2,500
0 ... 400	0 ... 4,000
0 ... 600	0 ... 6,000

MPa	
0 ... 0.06	0 ... 1
0 ... 0.1	0 ... 1.6
0 ... 0.16	0 ... 2.0
0 ... 0.25	0 ... 2.5
0 ... 0.4	0 ... 4
0 ... 0.6	0 ... 6

psi	
0 ... 10	0 ... 200
0 ... 15	0 ... 300
0 ... 30	0 ... 400
0 ... 60	0 ... 500
0 ... 100	0 ... 600
0 ... 150	0 ... 800
0 ... 160	-

Vacuum and compound scale ranges

bar	
-0.6 ... 0	-1 ... +5
-1 ... 0	-1 ... +9
-1 ... +0.6	-1 ... +15
-1 ... +1.5	-1 ... +24
-1 ... +3	-1 ... +30

MPa	
-0.06 ... 0	-0.1 ... +0.5
-0.1 ... 0	-0.1 ... +0.9
-0.1 ... +0.06	-0.1 ... +1.5
-0.1 ... +0.15	-0.1 ... +2.4
-0.1 ... +0.3	-0.1 ... +3

kPa	
-60 ... 0	-100 ... +500
-100 ... 0	-100 ... +900
-100 ... +60	-100 ... +1,500
-100 ... +150	-100 ... +2,400
-100 ... +300	-100 ... +3,000

psi	
-15 inHg ... 0	-30 inHg ... +100
-30 inHg ... 0	-30 inHg ... +160
-30 inHg ... +15	-30 inHg ... +200
-30 inHg ... +30	-30 inHg ... +300
-30 inHg ... +60	-30 inHg ... +400

→ Other scale ranges on request

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Further details on: scale ranges	
Unit	■ bar ■ psi ■ kg/cm² ■ kPa ■ MPa
Increased overload safety	■ Without ■ 1.6 times ■ 2 times
	The possibility of selection depends on scale range and nominal size
Vacuum resistance	■ Without ■ Vacuum-resistant to -1 bar
Dial	
Scale colour	Black
Material	Plastic, white
Customer-specific version	Other scales, e.g. with red mark, circular arcs or circular sectors, on request
	→ Alternatively, adhesive label set for red and green circular arcs; see data sheet AC 08.03
Pointer	
Instrument pointer	Plastic, black
Mark pointer / drag pointer	■ Without ■ Red mark pointer on dial, fixed ■ Red mark pointer on window, adjustable
Pointer stop pin	■ Without ■ At zero point

Process connection	
Standard	■ EN 837-1 ■ ISO 7 ■ ANSI/B1.20.1
Size	
EN 837-1	■ G ⅛ B, male thread ■ G ¼ B, male thread
ANSI/B1.20.1	■ ⅛ NPT, male thread ■ ¼ NPT, male thread
ISO 7	■ R ⅛, male thread ■ R ¼, male thread
Restrictor	■ Without ■ Ø 0.3 mm [0.012"], copper alloy [1]
Material (wetted)	
Process connection	Copper alloy [1]
Bourdon tube	Copper alloy [1]

1) The used copper alloy contains less than 0.1 % lead by weight.

→ Other process connections on request

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Operating conditions	
Medium temperature	-20 ... +60 °C [-4 ... +140 °F]
Ambient temperature	-20 ... +60 °C [-4 ... +140 °F]
Pressure limitation	
Steady	3/4 x full scale value
Fluctuating	2/3 x full scale value
Short time	Full scale value
Ingress protection per IEC/EN 60529	
Lower mount (radial)	IP33
Centre back mount	IP41 [1)]

1) Ingress protection IP44 for steel case

Approvals

Logo	Description	Country
-	**CRN** Safety (e.g. electr. safety, overpressure, ...)	Canada

Manufacturer's declaration

Logo	Description
-	Pressure Equipment Directive (PED) for maximum allowable pressure PS ≤ 200 bar
-	Suitability of wetted materials for drinking water in accordance with the European 4MS initiative

Certificates

Description	
Certificates	■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy, material proof of wetted parts) ■ 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)
Recommended calibration interval	1 year (dependent on conditions of use)

→ For approvals and certificates, see website

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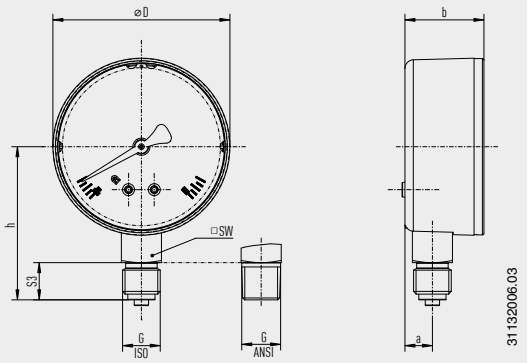
Dimensions in mm [in]

Model PG11LF, lower mount (radial), plastic case



NS	G [1]	Dimensions in mm [in]					
		h ±1 [0.04]	S3	a	b ±0.5 [0.02]	D	SW
40 [1 ½"]	G ⅛ B, ⅛ NPT, R ⅛	36 [1.42]	10 [0.39]	9.5 [0.37]	26.5 [14]	39 [1.54]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	39 [1.54]	13 [0.51]	9.5 [0.37]	26.5 [14]	39 [1.54]	14 [0.55]
50 [2"]	G ⅛ B, ⅛ NPT, R ⅛	42 [1.65]	10 [0.39]	10 [0.39]	27.5 [18]	49 [1.93]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	45 [1.77]	13 [0.51]	10 [0.39]	27.5 [18]	49 [1.93]	14 [0.55]
63 [2 ½"]	G ⅛ B, ⅛ NPT, R ⅛	50,5 [1.99]	10 [0.39]	9.5 [0.37]	27.5 [18]	62 [2.44]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	53.5 [2.11]	13 [0.51]	9.5 [0.37]	27.5 [18]	62 [2.44]	14 [0.55]

1) The G ⅛ B process connection of this instrument is manufactured without a centring spigot and with a thread runout instead of a thread undercut.

NS	Weight in kg [lb]
40 [1 ½"]	0.08 [0.18]
50 [2"]	0.10 [0.22]
63 [2 ½"]	0.13 [0.29]

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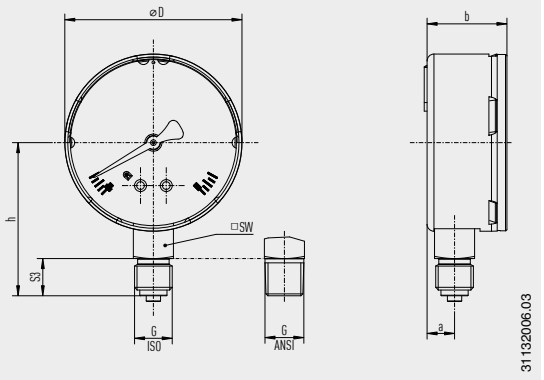
Model PG11LF, lower mount (radial), steel case



NS	G [1]	Dimensions in mm [in]					
		h ±1 [0.04]	S3	a	b ±0.5 [0.02]	D	SW
40 [1 ½"]	G ⅛ B, ⅛ NPT, R ⅛	36 [1.42]	10 [0.39]	9.5 [0.37]	26 [1.02]	39 [1.54]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	39 [1.54]	13 [0.51]	9.5 [0.37]	26 [1.02]	39 [1.54]	14 [0.55]
50 [2"]	G ⅛ B, ⅛ NPT, R ⅛	42 [1.65]	10 [0.39]	9.5 [0.37]	28 [1.10]	49 [1.93]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	45 [1.77]	13 [0.51]	9.5 [0.37]	28 [1.10]	49 [1.93]	14 [0.55]
63 [2 ½"]	G ⅛ B, ⅛ NPT, R ⅛	50.5 [1.99]	10 [0.39]	9.5 [0.37]	28 [1.10]	61.9 [2.44]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	53.5 [2.11]	13 [0.51]	9.5 [0.37]	28 [1.10]	61.9 [2.44]	14 [0.55]

1) The G ⅛ B process connection of this instrument is manufactured without a centring spigot and with a thread runout instead of a thread undercut.

NS	Weight in kg [lb]
40 [1 ½"]	0.09 [0.2]
50 [2"]	0.11 [0.24]
63 [2 ½"]	0.15 [0.33]

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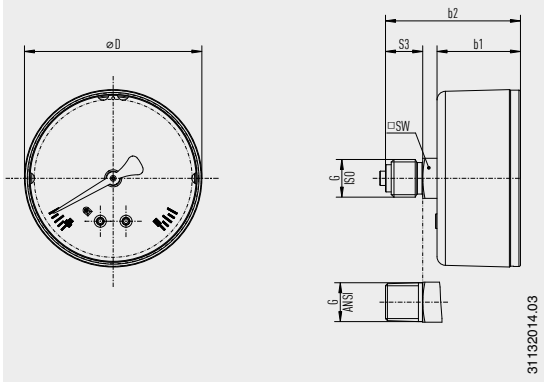
Model PG11LF, centre back mount, plastic case



NS	G [1]	Dimensions in mm [in]				
		b1 ±0.5 [0.02]	b2 ±1 [0.04]	S3	D	SW
40 [1 ½"]	G ⅛ B, ⅛ NPT, R ⅛	26.5 [1.04]	42 [1.65]	10 [0.39]	39 [1.53]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	26.5 [1.04]	45 [1.77]	13 [0.51]	39 [1.53]	14 [0.55]
50 [2"]	G ⅛ B, ⅛ NPT, R ⅛	29.5 [1.87]	44.5 [1.75]	10 [0.39]	49 [1.93]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	29.5 [1.87]	47.5 [1.87]	13 [0.51]	49 [1.93]	14 [0.55]
63 [2 ½"]	G ⅛ B, ⅛ NPT, R ⅛	29 [1.15]	44 [1.73]	10 [0.39]	62 [2.44]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	29 [1.15]	47 [1.85]	13 [0.51]	62 [2.44]	14 [0.55]

1) The G ⅛ B process connection of this instrument is manufactured without a centring spigot and with a thread runout instead of a thread undercut.

NS	Weight in kg [lb]
40 [1 ½"]	0.06 [0.13]
50 [2"]	0.07 [0.15]
63 [2 ½"]	0.08 [0.18]

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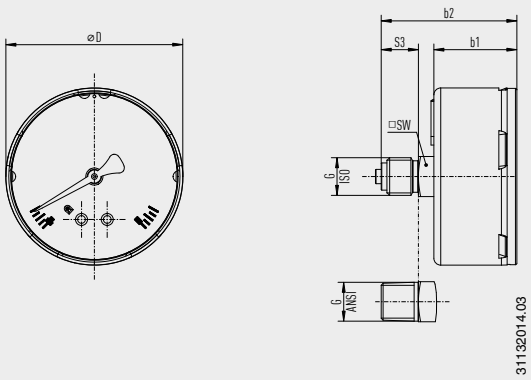
Model PG11LF, centre back mount, steel case



NS	G [1]	Dimensions in mm [in]				
		b1 ±0.5 [0.02]	b2 ±1 [0.04]	S3	D	SW
40 [1 ½"]	G ⅛ B, ⅛ NPT, R ⅛	26 [1.02]	41,5 [1.63]	10 [0.39]	39 [1.53]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	26 [1.02]	45 [1.77]	13 [0.51]	39 [1.53]	14 [0.55]
50 [2"]	G ⅛ B, ⅛ NPT, R ⅛	27.5 [1.10]	43 [1.69]	10 [0.39]	49 [1.93]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	27.5 [1.10]	46 [1.81]	13 [0.51]	49 [1.93]	14 [0.55]
63 [2 ½"]	G ⅛ B, ⅛ NPT, R ⅛	29 [1.14]	44.5 [1.75]	10 [0.39]	62 [2.44]	14 [0.55]
	G ¼ B, ¼ NPT, R ¼	29 [1.14]	47.5 [1.87]	13 [0.51]	62 [2.44]	14 [0.55]

1) The G ⅛ B process connection of this instrument is manufactured without a centring spigot and with a thread runout instead of a thread undercut.

NS	Weight in kg [lb]
40 [1 ½"]	0.07 [0.15]
50 [2"]	0.1 [0.22]
63 [2 ½"]	0.15 [0.33]

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Accessories and spare parts

Model		Description
	910.33	Adhesive label set for red and green circular arcs → See data sheet AC 08.03
	910.17	Seals → See data sheet AC 09.08
	910.15	Syphons → See data sheet AC 09.06
	910.13	Overpressure protector → See data sheet AC 09.04
	IV1	Needle valve and multiport needle valve → See data sheet AC 09.22
	IV2	Block-and-bleed valve → See data sheet AC 09.19
	IVM	Monoflange, process and instrument version → See data sheet AC 09.17
	BV	Ball valve, process and instrument version → See data sheet AC 09.28

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

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The specifications given in this document represent the state of the art at the time of publishing.
We reserve the right to make modifications to the specifications and materials.

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. +49 9372 132-0
info@wika.de
www.wika.de

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RIEGLER & Co. KG
Schützenstraße 27
72574 Bad Urach
Tel. +49 7125 9497-642
technik@riegler.de

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Accessories

	Art. No.	Type No.
Adhesive label set, six red and six green circular arcs, Ø-63, for pressure gauges, ambient temperature -40 °C to 60 °C	179685	AS63
Pressure gauge - safety cap made of rubber, red, for press. gauge Ø 63 mm, for connection radial bottom / rear	101301	GS 30
Pressure gauge - safety cap made of rubber, blue, for press. gauge Ø 63 mm, for connection radial bottom / rear	101302	GS 31

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