Bourdon tube pressure gauge Model 111.10, lower mount (LM) Standard version

WIKA data sheet PM 01.01

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Pneumatics
- Heating and air-conditioning technology
- Medical engineering

Special features

- Reliable and cost-effective
- Design per EN 837-1
- Nominal size 40, 50, 63, 80, 100 and 160
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 111.10

Description

Design EN 837-1

Nominal size in mm 40, 50, 63, 80, 100 and 160

Accuracy class 2.5

Scale ranges

0 ... 0.6 to 0 ... 400 bar (NS 160: max. 40 bar) or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation

Steady:3/4 x full scale valueFluctuating:2/3 x full scale valueShort time:Full scale value

Permissible temperature

Ambient: -40 ... +60 °C Medium: +60 °C maximum

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ± 0.4 %/10 K of the span

WIKA data sheet PM 01.01 · 07/2011

Data sheets showing similar products: Back mount; model 111.12; see data sheet PM 01.09 Panel mounting series, back mount; model 111.16; see data sheet PM 01.10

Standard version

Process connection

Cu-alloy, lower mount (LM) NS 40: G 1/8 B (male), 14 mm flats NS 50,63: G 1/4 B (male), 14 mm flats NS 80, 100, 160: G 1/2 B (male), 22 mm flats

Pressure element

Cu-alloy, ≤ 60 bar: C-type > 60 bar: Helical type

Movement

Cu-alloy

Dial

NS 40, 50, 63: Plastic, white, with pointer stop pin NS 80, 100, 160: Aluminium, white, with pointer stop pin Black lettering, red mark pointer with measuring ranges 0 ... 0.6 to 0 ... 60 bar

Page 1 of 2



Pointer

Plastic, black NS 160: Aluminium, black

Case

Plastic, black NS 160: Steel, black

Window

Plastic, crystal-clear, snap-fitted in case NS 160: Instrument glass

Bezel ring

without NS 160: Steel, black

Options

- Accuracy class 1.6
- н. Case steel, black, for NS 40, 50 and 63 with blow-out device
- Surface mounting flange (not with NS 40 and 50)

Special versions

For closed heating systems

NS 63, 80

with red mark pointer and adjustable green sector, scale ranges 0 ... 4 bar, red mark at 2.5 or 3 bar

For heating systems

NS 80, 100, 160 Scale ranges 0 ... 0.6 or 0 ... 1 bar, with retard scale spacing and red mark pointer

For refrigeration plants NS 63, 80

with additional temperature scale for refrigerants in °C, refrigerants: R 12, R 22, R 502, R 404 a or R 134 a

For water-level indication (hydrometer)

NS 80, 100, 160 Scale ranges 0 ... 0.6 to 0 ... 40 bar, with second scale in mWS

Dimensions in mm

Standard version







NS	Dimensions in mm						Weight in kg
	а	b ± 0.5	D	G	h ± 1	SW	
40	9.5	26	39	G 1⁄8 B	36	14	0.08
50	10	27.5	49	G ¼ B	45	14	0.10
63	9.5	27.5	62	G ¼ B	53.5	14	0.13
80	11.5	30	79	G ½ B	72	22	0.18
100	11.5	30.5	99	G ½ B	83.5	22	0.21
160	15.5	42	160	G ½ B	115.5	22	0.85

Process connection per EN 837-1 / 7.3

Ordering information

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

© 2005 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.

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

Page 2 of 2

WIKA data sheet PM 01.01 · 07/2011



WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 30 63911 Klingenberg/Germany (+49) 9372/132-0 Tel. (+49) 9372/132-406 Fax E-mail info@wika.de www.wika.de