

Bourdon Tube Pressure Gauges Stainless Steel, Safety Pattern Version, High Overpressure Safety Model 232.36/233.36, without/with Liquid Filling

WIKA Data Sheet PM 02.15



Applications

- Especially suited for occasional short-duration overpressures of up to 4 times scale range
- Increased safety requirements
- With liquid filled case for applications with high dynamic pressure pulsations or vibrations
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industries: chemical/petro-chemical, power stations, mining, on- and offshore, environmental technology, mechanical engineering and plant construction

Special Features

- High pressure safety, overload range is indicated completely on scale
- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1, BS 1780 and ASME B 40.1
- All stainless steel construction

Description

Design

Safety pattern (Solidfront) referring to EN 837-1

Nominal size

100 and 160 mm

Scale and overload ranges

Scale range in bar	Overload range up to ... bar
-1 ... 0	3
0 ... 0.6	2.5
0 ... 1	4
0 ... 1.6	6
0 ... 2.5	10
0 ... 4	16
0 ... 6	25
0 ... 10	40
0 ... 16	60
0 ... 25	80
0 ... 40	100



Bourdon Tube Pressure Gauge Model 232.36

Accuracy class

Scale range: 1.0

The scale end is marked by a black triangle

Working pressure

Steady: full scale value

Fluctuating: 0.9 x full scale value

Short time: overload range

Operating temperature

Ambient: -40 ... +60 °C without liquid filling

-20 ... +60 °C gauges with glycerine filling

Medium: +200 °C maximum without liquid filling

+100 °C maximum with liquid filling

Temperature effect

When temperature of the pressure element deviates from reference temperature (+20 °C):

max. $\pm 0.4\%$ /10 K of true scale value

Ingress protection

IP 65 per EN 60 529 / IEC 529

Standard features

Pressure connection

Material: stainless steel 316L
Lower mount (LM), G ½ B (male), 22 mm flats

Pressure element

Stainless steel 316L

Movement

Stainless steel

Dial

White aluminium, with black lettering in scale range, overpressure range indicated by a black sector

Pointer

Black aluminium

Case

Natural finish stainless steel, case with solid baffle wall and blow-out back

Window

Laminated safety glass

Bezel ring

Cam ring (bayonet type), natural finish stainless steel

Liquid filling (for model 233.36)

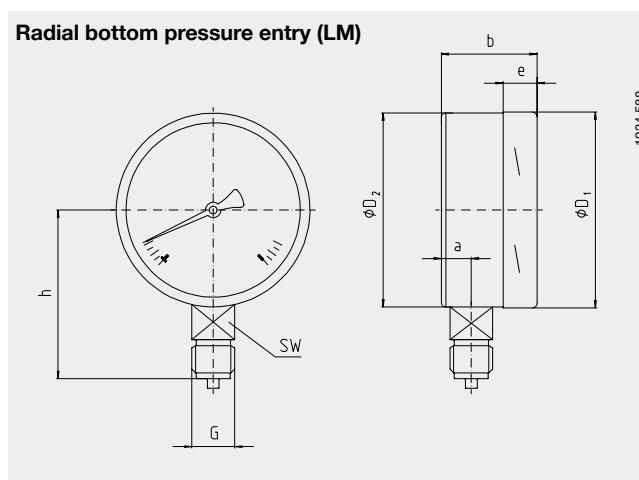
Glycerine 99.7 %

Optional extras

- Other pressure connections
- Assembly on diaphragm seals see product review DS
- Other scale ranges, for example -1 ... 1.5 bar
- Surface mounting lugs on case or 3-hole panel mounting flange, stainless steel
- Ambient temperature -40 °C: silicon oil filling
- Ingress protection IP 66 / IP 67
- 100 mm only: alarm contacts (see data sheet AC 08.01)
- Version per ATEX Ex II 2 GD c

Dimensions in mm

Standard version



NS	Dimensions in mm								Weight in kg
	a	b	D ₁	D ₂	e	G	h ± 1	SW	
100	25	59.5	101	100	17	G ½ B	87	22	0.65
160	27	65	161	159	17.5	G ½ B	118	22	1.30

Standard pressure entry with parallel thread and sealing to EN 837-1 / 7.3

Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required

Modifications may take place and materials specified may be replaced by others without prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

