

# Capsule Pressure Gauges Stainless Steel Series Model 632.50/633.50, without/with Liquid Filling

WIKA Data Sheet PM 06.03



## Applications

- With liquid filled case for applications with high dynamic pressure pulsations or vibrations
- For gaseous, dry and aggressive media, also in aggressive ambience
- Process industries: chemical/petro-chemical, pharmaceutical, biotechnology, machine and power generation industries

## Special Features

- Zero adjustment in front
- All stainless steel construction
- Special connection location on request
- Low scale ranges from 0 ... 2.5 mbar



Capsule Pressure Gauge Model 632.50

## Description

### Design

EN 837-3

### Nominal size in mm

63, 100, 160

### Accuracy class

1.6

### Scale ranges

NS 63: 0 ... 40 mbar to 0 ... 600 mbar

NS 100: 0 ... 16 mbar to 0 ... 600 mbar

NS 160: 0 ... 2.5 mbar to 0 ... 600 mbar

or all other equivalent vacuum or combined pressure and vacuum ranges

### Pressure limitation

Steady: full scale value

Fluctuating: 0.9 x full scale value

### Operating 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.  $\pm 0.6$  %/10 K of full scale value

### Ingress protection

IP 54 per EN 60 529 / IEC 529

(with liquid filling IP 65)

## Standard version

### Process connection

Stainless steel 316L,  
lower mount (LM) or lower back mount (LBM) 1)  
NS 63: G ¼ B (male)  
NS 100, 160: G ½ B (male)

### Pressure element

Stainless steel 316L / 1.4571

### Sealing

FPM/FKM

### Movement

Stainless steel

### Zero adjustment

In front

### Dial

Aluminium, white, black lettering

### Pointer

Aluminium, black

### Case

Stainless steel

### Window

Laminated safety glass  
(with liquid filling: acrylic glass)

### Bezel ring

Cam ring (bayonet type), stainless steel

### Liquid filling (for model 633.50):

NS 100 and 160 from scale ranges  $\geq 100$  mbar  
Glycerine 86.5 %

## Options

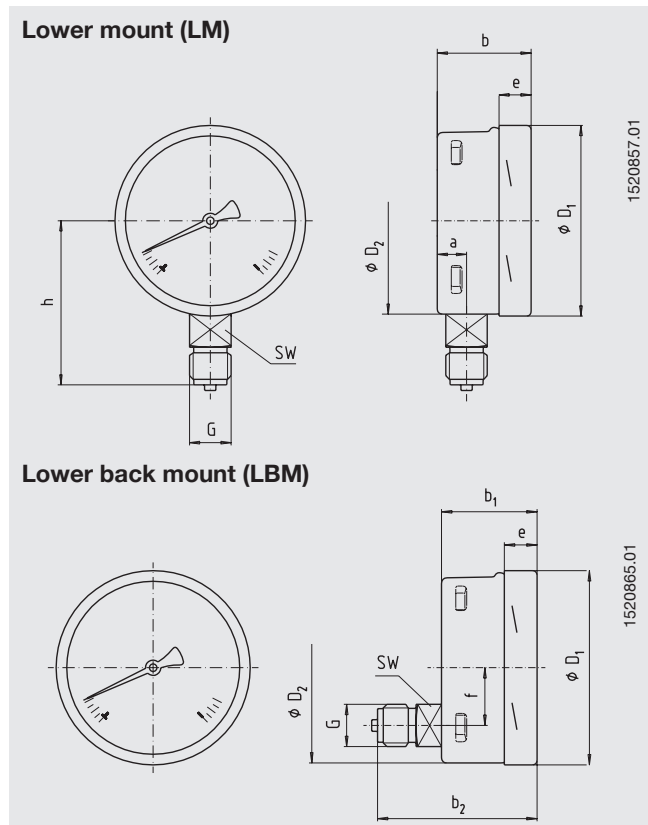
- Other process connection
- Accuracy class higher: class 1.0

## Further options

- Overpressure and vacuum safety with  
scale ranges  $> 25$  mbar: 10 x full scale value  
scale ranges  $\leq 25$  mbar: 3 x full scale value
- Surface mounting flange
- NS 100 and 160: panel mounting flange
- NS 100 and 160: triangular bezel with clamp
- NS 100: from scale ranges  $\geq 60$  mbar  
transmitter (model 89X.34, data sheet AC 08.02)
- NS 100 and 160: from scale ranges  $\geq 100$  mbar  
switch contacts (model 831, data sheet AC 08.01)

## Dimensions in mm

### Standard version



NS	Dimensions in mm										Weight in kg	
	a	b	b <sub>1</sub>	b <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	e	f	G	h ± 1	SW	
63	9.5	42	42	63	64	62	22	- 1)	G ¼ B	52	14	0.19
100	15.5	49.5	49.5	83	101	99	17.5	30	G ½ B	87	22	0.60
160	15.5	49.5	49.5	83	161	159	17.5	50	G ½ B	118	22	1.10

Process connection per EN 837-1 / 7.3

1) With NS 63: Centre back mount (CBM)

## Ordering information

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

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.



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