# Bourdon tube pressure gauge Stainless steel, safety version, high overpressure safety Models 232.36, 233.36

WIKA data sheet PM 02.15



## **Applications**

- Especially suited for occasional short-duration overpressure loads of up to 4 times the measuring range
- Increased safety requirements
- With liquid-filled case for applications with high dynamic pressure loads or vibrations <sup>1</sup>)
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical, petrochemical, power plants, mining, on- and offshore, environmental technology, machine building and general plant construction

## **Special features**

- High overpressure safety, overpressure range is indicated completely on scale
- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1
- All stainless steel construction

## Description

#### Design

Safety pattern version following EN 837-1

#### Nominal size in mm

100, 160

#### Measuring ranges and overpressure ranges

Measuring range in bar	Overpressure 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

1) Model 233.36

WIKA data sheet PM 02.15 · 09/2011





Bourdon tube pressure gauge model 232.36

### Accuracy class

Measuring range: 1.0 The measuring range end is marked by a triangle

#### **Pressure limitation**

Steady:end value of measuring rangeFluctuating:0.9 x end value of measuring rangeShort time:Overpressure range

#### Permissible temperature

Ambient:-40 ... +60°C without liquid filling<br/>-20 ... +60 °C gauges with glycerine filling 1)Medium:+200 °C maximum without liquid filling<br/>+100 °C maximum with liquid filling 1)

#### **Temperature effect**

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max.  $\pm 0.4 \% / 10$  K of full scale value

#### Ingress protection

IP 65 per EN 60529 / IEC 529

Page 1 of 2



## Standard version

### **Process connection**

Stainless steel 316L, lower mount (LM) G  $^{1\!\!/_2}$  B (male), 22 mm flats

Pressure element Stainless steel 316L

Movement

Stainless steel

### Dial

Aluminium, white, black lettering in measuring range, overpressure range indicated by a black sector

### Pointer

Aluminium, black

### Case

Stainless steel, with solid baffle wall (Solidfront) and blow-out back

### Window

Laminated safety glass

### **Bezel ring**

Cam ring (bayonet type), stainless steel

#### Filling liquid (for model 233.36) Glycerine 99.7 %

## Options

- Other process connection
- Assembly on diaphragm seals see product review diaphragm seals
- Other measuring ranges, for example -1 ... 1.5 bar
- Surface mounting lugs on the back or panel mounting flange, stainless steel
- Ambient temperatures -40 °C: Silicone oil filling
- Ingress protection IP 66 / IP 67
- Switch contacts (for NS 100 only, data sheet AC 08.01)
- Version per ATEX Ex II 2 GD c TX

## **Dimensions in mm**

## Standard version

### Lower mount (LM)



NS	Dimens	ions in mr	Weight in kg						
	а	b	<b>D</b> 1	D <sub>2</sub>	е	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

Process connection per EN 837-1 / 7.3

### **Ordering information**

Model / Nominal size / Measuring range / Connection size / Options

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Page 2 of 2

WIKA data sheet PM 02.15 · 09/2011



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