

# Bourdon tube pressure gauge Model 111.16, back mount Panel mounting series

WIKA data sheet PM 01.10

## 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
- Small-capacity compressors
- Medical engineering

## Special features

- Especially for panel mounting
- Reliable and cost-effective
- Design per EN 837-1
- Nominal size 40, 50 and 63
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 111.16

## Description

### Design

EN 837-1

### Nominal size in mm

40, 50 and 63

### Accuracy class

2.5

### Scale ranges

0 ... 0.6 to 0 ... 400 bar

or all other equivalent vacuum or combined pressure and vacuum ranges

### Pressure limitation

Steady: 3/4 x full scale value

Fluctuating: 2/3 x full scale value

Short time: Full scale value

### Permissible temperature

Ambient: -20 ... +60 °C

Medium: +60 °C maximum

### Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):

max.  $\pm 0.4$  %/10 K of the span

## Standard version

### Process connection

Cu-alloy,  
centre back mount (CBM)  
NS 40: G 1/8 B (male), 14 mm flats  
NS 50, 63: G 1/4 B (male), 14 mm flats

### Pressure element

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

### Movement

Cu-alloy

### Dial

Plastic, white, with pointer stop pin  
Black lettering

### Pointer

Plastic, black

### Case

Plastic, black  
with front flange

### Window

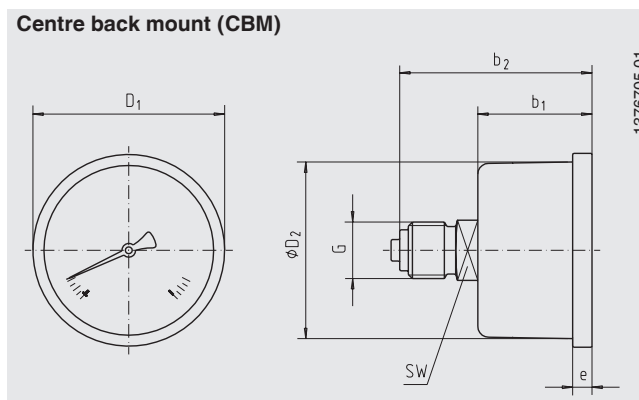
Plastic, crystal-clear, snap-fitted in case

## Options

- Other process connection
  - Accuracy class 1.6
  - Panel mounting flange, steel, black
  - Mounting bracket, steel, galvanised
- both components can be retrofitted by the customer

## Dimensions in mm

### Standard version



| NS | Dimensions in mm    |                   |                |                |       |    |     | Weight in kg |
|----|---------------------|-------------------|----------------|----------------|-------|----|-----|--------------|
|    | b <sub>1</sub> ±0.5 | b <sub>2</sub> ±1 | D <sub>1</sub> | D <sub>2</sub> | G     | SW | e   |              |
| 40 | 26.5                | 44.5              | 45             | 40             | G ⅛ B | 14 | 4.5 | 0.06         |
| 50 | 26.5                | 47.5              | 54             | 49.5           | G ¼ B | 14 | 4.5 | 0.07         |
| 63 | 29.5                | 47.5              | 68             | 63             | G ¼ B | 14 | 5   | 0.08         |

Process connection per EN 837-1 / 7.3

## Ordering information

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

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