

# Bourdon tube pressure gauge with electronic pressure switch Stainless steel case, ingress protection IP 41 Model PGS07

WIKA data sheet PV 21.06

**switchGAUGE**

## Applications

- General machine building
- Medical gases

## Special features

- Non-contact sensor (wear-free)
- Robust stainless steel case
- Nominal size 40, 50
- Scale ranges 0 ... 1.6 bar to 0 ... 400 bar
- NPN or PNP transistor



**switchGAUGE model PGS07**

## Description

### Design

EN 837-1

### Nominal size in mm

40, 50

### Accuracy class

2.5

### Scale ranges

0 ... 1.6 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

### Operating temperature

Ambient: -20 ... +60 °C

Medium: +90 °C maximum

### Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max.  $\pm 0.4 \text{ } \%$ /10 K of the span

### Process connection

Cu-alloy,

Lower mount (LM) or centre back mount (CBM)

G 1/4 B (male), 14 mm flats

### Pressure element

Cu-alloy, C-type

### Movement

Cu-alloy

### Dial

Plastic, white, black lettering

### Pointer

Plastic, black

### Case

Stainless steel

**Window**

Plastic, crystal-clear (PC)

**Ingress protection**

IP 41 per EN 60529 / IEC 529

**Electronics**

**Switching output**

- NPN
  - PNP
- Normally closed (NC) or normally open (NO)  
NS 40: 1 switch point  
NS 50: 2 switch points

**Supply voltage (Us)**

DC 12 ... 32 V

**Electrical connections**

Cable outlet, standard length 2 m

Colour	Assignment
black	GND
brown	SP1
orange	SP2
red	UB +

**Switching current**

Max. 1 A, short-circuit-proof

**Electromagnetic compatibility**

Per test standards EN 61000-4-6 / EN 61000-4-3

**CE mark**

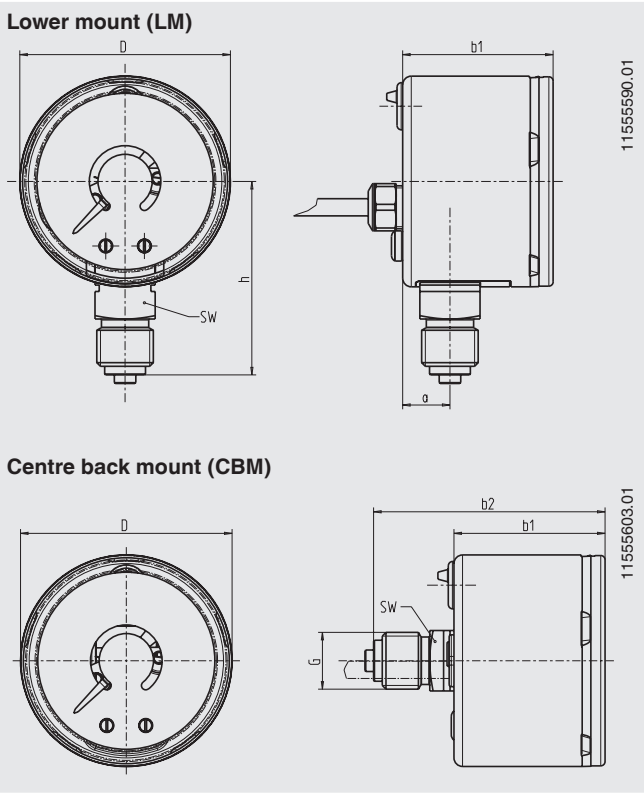
This product is only intended for installation in instruments which meet the requirements of the EC directives.  
The CE proof is provided by the customer.

**Options**

- Other process connection (with adapter, Cu-alloy)
- Other cable length

**Dimensions in mm**

**Standard version**



NS	Dimensions in mm							Weight in kg
	a	b <sub>1</sub>	b <sub>2</sub>	D	G	h	SW	
40	9	30.6	48	40	G 1/8 B	36	14	0.1
50	10	35.5	53.5	49	G 1/4 B	45	14	0.2

Process connection per EN 837-1 / 7.3

**Ordering information**

Model / Nominal size / Scale range / Connection size / Connection location / Switch point and function (1 or 2) / Options

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.



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