

### Differential Pressure Gauges Model 711.11, with Bourdon Tube Element, Vee Entry

WIKA Data Sheet PM 07.01



#### Applications

- Measurement of differential pressures or of two different pressures applied
- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Heating, ventilation and air conditioning

#### Special Features

- Differential pressure with moving dial
- Cost-effective and reliable
- Scale ranges from 0 ... 0.6 bar



Differential Pressure Gauge Model 711.11

#### Description

##### Design

Two independent measuring systems, vee entry 60°

##### Nominal size in mm

100, 160

##### Accuracy class

1.6

##### Scale ranges

0 ... 0.6 to 0 ... 60 bar

Scale range must be selected in relation to the highest total pressure applied!

In heating plants with circulating pumps, the overall pressure is usually defined as equal to the hydrostatic pressure plus the pump pressure.

In order to ensure a good readability, the pressure differential to be indicated should be no less than 1/6 of the full scale range.

When ordering please state both pressures:

- a) maximum pressure applied,
- b) differential pressure

##### 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: +60 °C maximum

##### Temperature effect

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

##### Ingress protection

IP 33 per EN 60 529 / IEC 529

## Standard version

### Process connection

Cu-alloy,  
lower mount (LM)  
2 x G ½ B (male),  
identified ⊕ and ⊖

### Pressure elements

Cu-alloy, C-type

### Movement

Cu-alloy, wear parts argantan

### Dial

Aluminium, white, black lettering  
2nd scale in mWS, inside, black

### Pointer

1 standard pointer: Aluminium, black  
1 scale pointer: Aluminium, white  
scaled ±50 % of main scale range as  
plus and minus differential pressure  
indication

### Case

Steel, black

### Window

Instrument glass

### Bezel ring

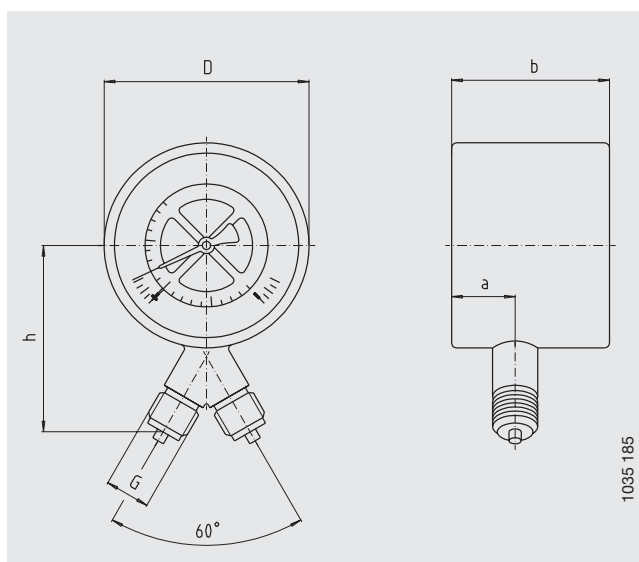
Slip-on bezel, steel, black

## Options

- Other process connection
- Design with duplex scale ("duplex pressure gauge")
- Panel or surface mounting flange
- Switch contacts (see data sheet AC 08.01), subtracting movement obligatory

## Dimensions in mm

### Standard version



NS	Dimensions in mm					Weight in kg
	a	b	D	G	h ± 1	
100	31.5	82	101	G ½ B	91	1.00
160	31.5	86.5	160	G ½ B	120	1.60

Process connection per EN 837-1 / 7.3

## Ordering information

Model / Nominal size / Scale range / Differential or duplex pressure indication / Max. pressure applied / Differential pressure span / Connection size / 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.