

## Bourdon Tube Pressure Gauges

Standard Series, Radial Pressure Entry • Model 111.10

### Pressure Gauges

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**Service intended**

General purpose pressure gauge. Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

**Design**

EN 837-1

**Nominal size**

40, 50, 63, 80, 100 and 160 mm

**Accuracy class per EN 837-1 /5**

40, 50 and 63 mm: 1.6 / 2.5 \*  
80, 100 and 160 mm: 1.6

**Scale ranges per EN 837-1 /5**

0 ... 0.6 to 0 ... 400 bar (max. 40 bar with 160 mm)  
or other equivalent units of pressure or vacuum.

**Working pressure**

Steady:  $\frac{3}{4}$  of full scale value

Fluctuating:  $\frac{1}{2}$  of full scale value

Short time: full scale value

**Operating Temperature**

Ambient: -40 ... +60 °C

Medium: +60 °C maximum

**Temperature effect**

When temperature of the pressure element deviates from reference temperature (+20 °C):  
max.  $\pm 0.4$  %/10 K of the span.

**Pressure element**

Material: Cu-alloy

≤ 40 bar: C-type

> 40 bar: helical type

**Movement**

Cu-alloy

**Dial**

40, 50 and 63 mm: white plastic, with pointer stop pin

80, 100 and 160 mm: white aluminium, with pointer stop pin

With black lettering

**Pointer**

Black plastic

160 mm only: black aluminium

**Case**

Black plastic

160 mm only: black finish steel

**Window**

Crystal-clear plastic, snap-fit

160 mm only: instrument glass

**Bezel ring**

Without bezel

160 mm only: black finish steel

**Optional extras**

- Other pressure connection

- Black finish steel case

- Slip-on bezel

Back pressure entry see data sheet PM 01.09

Panel mounting, back pressure entry see data sheet PM 01.10

\* for stock instruments or as option: class 1.6

## Special versions

### For closed central heating

63 and 80 mm, accuracy class 2.5  
With red mark pointer and adjustable green sector  
Scale range 0 ... 4 bar, red mark at 2.5 or 3 bar

### Refrigerant gauges 63 and 80 mm

(80 mm with black finish steel case, accuracy class 1.0)  
Featuring scales in °C for refrigerants R 744, R 764, R 40, R 22 or R 134 a

### Refrigerant field service gauges

80 mm with black finish steel case, accuracy class 1.0  
Featuring SAE flare connection, knife edge pointer, scales in °C for refrigerants R 22, R 134 a and R 404 A

### Tyre inflation gauges with EEC approval mark

80 mm with black finish steel case  
Scale ranges 0 ... 4 and 0 ... 10 bar

### For domestic central heating

80, 100 and 160 mm, accuracy class 2.5  
Scale ranges 0 ... 0.6 or 0 ... 1 bar with retard scale spacing and red mark pointer

### For water-level-indicator and central heating

80, 100 and 160 mm, accuracy class 2.5  
Scale ranges 0 ... 0.6 to 0 ... 40 bar with 2nd scale of mWS (metres of water)

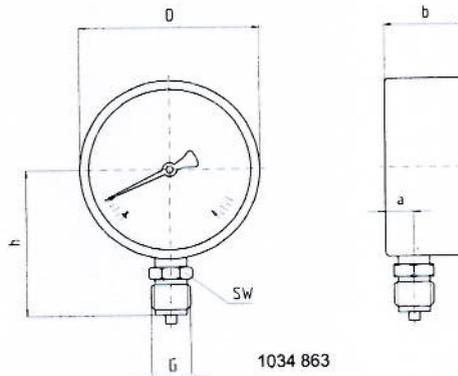
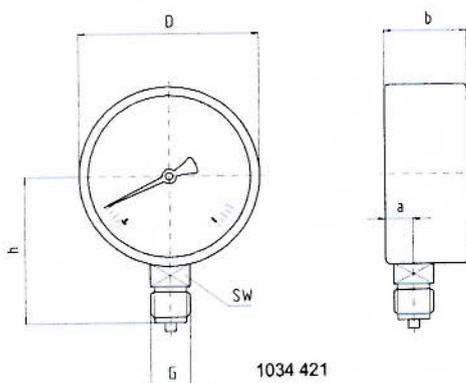
## Dimensions

### Standard versions

Radial bottom pressure connection

40, 50, 63 and 160 mm

80 and 100 mm



NS	Dimensions [mm]						Weight [kg]
	a	b ± 0,5	D	G	h ± 1	SW	
40	8	24	41	G 1/8 B	36	12	0.06
50	10	27.5	49	G 1/8 or 1/4	45	14	0.10
63	10	27.5	62	G 1/4 B	53.5	14	0.13
80	11.5	30	79	G 1/2 B	72	22	0.18
100	11.5	30	99	G 1/2 B	83.5	22	0.21
160	15.5	41.5	160	G 1/2 B	115.5	22	0.85

Standard pressure entry with parallel thread and seating to EN 837-1/7.3

## Ordering information

State:

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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