



## Bourdon tube pressure gauges for industrial applications type D2

|                                      |                   |
|--------------------------------------|-------------------|
| housing $\varnothing$ (nominal size) | 100 mm            |
| Connection                           | G $\frac{1}{2}$ B |
| alignment                            | bottom            |
| accuracy class                       | 1.0               |
| standard                             | EN 837-1          |

### benefits

- for machine and plant engineering
- robust steel housing
- many customised versions available

## Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys.

! For high measuring accuracy. For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

## Technical Specifications

### Type

D2

### Nominal size

100

### accuracy class (EN 837-1/6)

1.0

### ranges (EN 837-1/5)

see ordering table

### application area

$\leq 600$  bar: Full scale value  
 $> 600$  bar:  $\frac{3}{4}$  x full scale value  
 $\leq 600$  bar: 0.9 x full scale value  
 $> 600$  bar:  $\frac{2}{3}$  x full scale value  
 $\leq 600$  bar: 1.3 x full scale value  
 $> 600$  bar: Full scale value

### Operating temperature range

Medium: max. 60 °C

Ambient: -20/+60 °C

### Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:

at rising temperature approx.  $\pm 0.4$  %/10 K

falling temperature approx.  $\pm 0.4$  %/10 K

of full scale value

### Degree of protection

IP 32 (EN 60529)

### Connection

Brass, bottom

### Measuring element

Bourdon tube

$\leq 60$  bar: "C" type tube, Copper alloy

$> 60$  bar: helical tube, stainless steel 316 Ti/316 L

**movement**  
Brass

**Dial**  
Aluminium, white  
Scaling: black

**Pointer**  
Aluminium, black

**Housing**  
Sheet steel, black

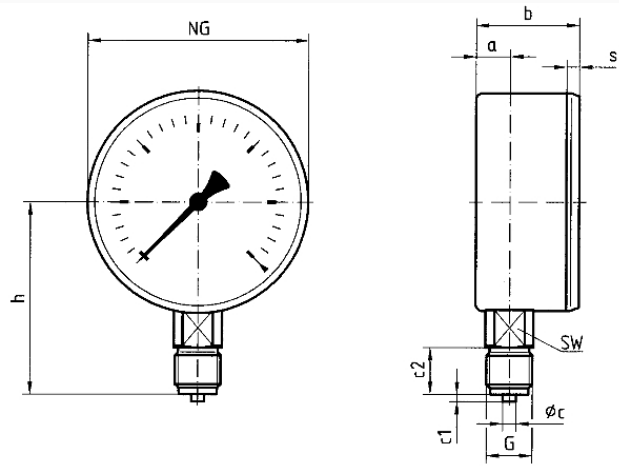
**window**  
Plastic, clipped in

## Options

- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

## Technical Drawings

**Bottom connection**



**Dimensions (mm)**

| NG  | a    | b  | øc | c1 | c2 | G   | h  | s   | SW |
|-----|------|----|----|----|----|-----|----|-----|----|
| 100 | 15,6 | 44 | 6  | 3  | 20 | G½B | 86 | 3,5 | 22 |

## Versions

| Range       | Mounting type | Type           |   | Part number |
|-------------|---------------|----------------|---|-------------|
| -1/+0 bar   | direct        | RF100I<br>D201 | ● | 85301201    |
| -1/+0.6 bar | direct        | RF100I<br>D201 | ● | 85302201    |
| -1/+1.5 bar | direct        | RF100I<br>D201 | ● | 85303201    |
| -1/+3 bar   | direct        | RF100I<br>D201 | ● | 85304201    |
| -1/+5 bar   | direct        | RF100I<br>D201 | ● | 85305201    |
| -1/+9 bar   | direct        | RF100I<br>D201 | ● | 85306201    |
| -1/+15 bar  | direct        | RF100I<br>D201 | ● | 85307201    |
| 0/0.6 bar   | direct        | RF100I<br>D201 | ● | 85309201    |
| 0/1 bar     | direct        | RF100I<br>D201 | ● | 85310201    |
| 0/1.6 bar   | direct        | RF100I<br>D201 | ● | 85311201    |
| 0/2.5 bar   | direct        | RF100I<br>D201 | ● | 85312201    |
| 0/4 bar     | direct        | RF100I<br>D201 | ● | 85313201    |
| 0/6 bar     | direct        | RF100I<br>D201 | ● | 85314201    |
| 0/10 bar    | direct        | RF100I<br>D201 | ● | 85315201    |
| 0/16 bar    | direct        | RF100I<br>D201 | ● | 85316201    |
| 0/25 bar    | direct        | RF100I<br>D201 | ● | 85317201    |
| 0/40 bar    | direct        | RF100I<br>D201 | ● | 85318201    |
| 0/60 bar    | direct        | RF100I<br>D201 | ● | 85319201    |

|            |        |                |   |          |
|------------|--------|----------------|---|----------|
| 0/100 bar  | direct | RF100I<br>D201 | ● | 85320201 |
| 0/160 bar  | direct | RF100I<br>D201 | ● | 85321201 |
| 0/250 bar  | direct | RF100I<br>D201 | ● | 85322201 |
| 0/400 bar  | direct | RF100I<br>D201 | ● | 85323201 |
| 0/600 bar  | direct | RF100I<br>D201 | ● | 85324201 |
| 0/1000 bar | direct | RF100I<br>D201 | ● | 85325201 |

● in-stock items

● Non-stock items