# Bourdon tube pressure gauge RF100ISR

## Part no. 85312101

## Bourdon tube pressure gauges with screw bezel housing type D1

**benefits**

- for machine and plant engineering
- extremely robust plastic housing (PA 6.6 GB30)
- laminated safety glass window
- higher accuracy class optional

## 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"

## Technical Specifications

**Type**
D1

**Nominal size**
100

**accuracy class (EN 837-1/6)**
1.0

**ranges (EN 837-1/5)**
see ordering table

**application area**
≤ 600 bar: Full scale value
> 600 bar: ¾ x full scale value
≤ 600 bar: 0.9 x full scale value
> 600 bar: ⅔ x full scale value
≤ 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. ± 0.4 %/10 K
falling temperature approx. ± 0.4 %/10 K
of full scale value

**Degree of protection**
IP 54 (EN 60529) with housing vent (≤ 25 bar)

## standard version

**Connection**
Brass, bottom

**Measuring element**
Bourdon tube
≤ 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**
plastic (PA 6.6 GB30), with blow-out

**Screw type bezel**
plastic (PA 6.6 GB30)

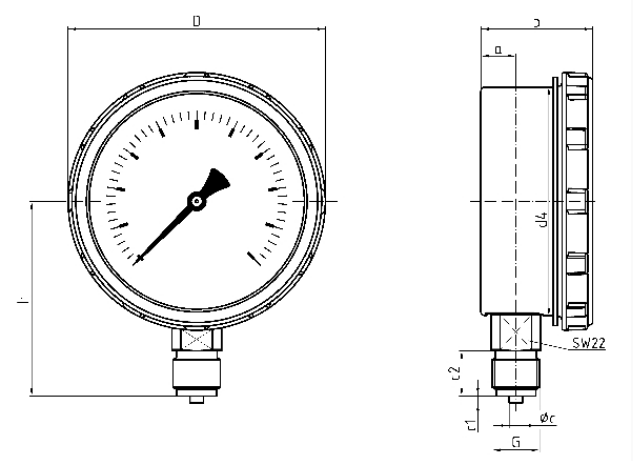
**window**
Laminated safety glass

## Options

- Glycerine filling (type D 6)
- higher accuracy class
- throttle screw
- special scales
- other process connections
- micro-adjustable pointer

## Technical Drawings

**Bottom connection**




**Dimensions (mm)**

| NG | a | b | ∅c | c1 | c2 | d4 | D | G | h |
|---|---|---|---|---|---|---|---|---|---|
| 100 | 15,5 | 50 | 6 | 3 | 20 | 101 | 114 | G½B | 86 |

## Versions

| Range | Mounting type | Type | | Part number |
|---|---|---|---|---|
| 0/2.5 bar | direct | RF100ISR D101 | ● | 85312101 |

● in-stock items

○ Non-stock items