



40mm, 50mm, 63mm and 100mm standard range

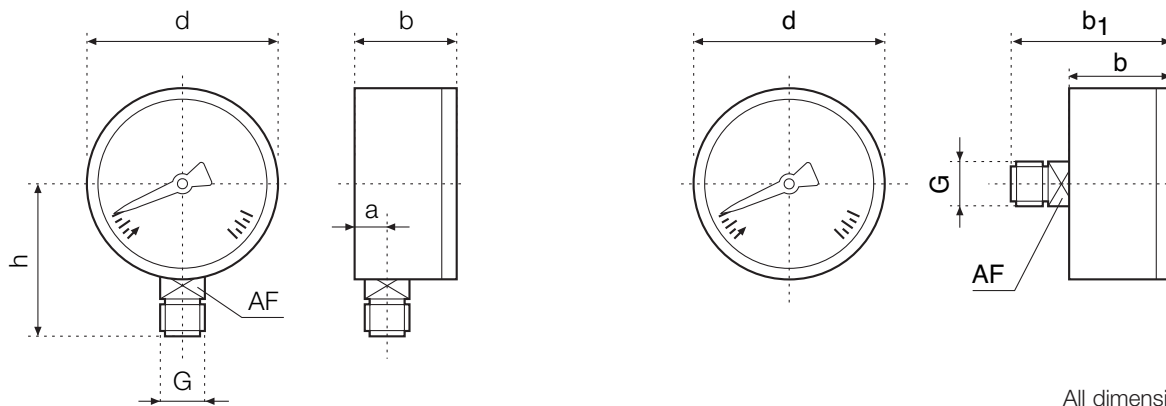
- ABS case
- Copper alloy measuring system
- Pressure ranges from -1...15 bar 0...400 bar

Technical specification

| | |
|----------------------------|---|
| Nominal size (mm) | 40, 50, 63 and 100 |
| Accuracy class | 2.5 to EN 837-1 (100m, 1.6) |
| Operating range | Constant Load: 3/4x full scale Alternating load: 2/3x full scale |
| Case | Plastic, black (ABS) (1446 - steel black) |
| Window | Plexiglass, convex, clipped on |
| Dial | Plastic, white with stop pin, scale black to Din 16109 |
| Pointer | Plastic, black |
| Movement | Cu Zn alloy (Brass) |
| Measuring element | Cu alloy |
| Pressure connection | Cu Zn alloy |

| | | |
|------------------------------|---|--------------|
| Connection threads | See dimension table | |
| Temperature ranges | | |
| Media | +60°C | |
| Ambient | -40°C to +60°C | |
| Weight approx (Kg) | 1410 - 0.7 | 1415 - 0.065 |
| | 1420 - 0.1 | 1425 - 0.071 |
| | 1430 - 0.13 | 1435 - 0.078 |
| | 1444 - 0.21 | 1446 - 0.26 |
| Options (moq applies) | Dual scale bar/psi Connection threads Panel mounting Metal case Glass window, only with metal case and ring | |









Dimensions



All dimensions in mm

| Model | NG | a± 0.5 | b± 0.5 | b1± 0.5 | d± 0.5 | G | h± 1 | AF |
|-------|-----|--------|--------|---------|--------|-------------------|------|----|
| 1410 | 40 | 9.6 | 26.2 | - | 39 | G1/8 B (1/8" BSP) | 36 | 14 |
| 1415 | 40 | - | 26.2 | 41.8 | 39 | G1/8 B (1/8" BSP) | - | 14 |
| 1420 | 50 | 9.6 | 27.3 | - | 49 | G1/4 B (1/4" BSP) | 45 | 14 |
| 1425 | 50 | - | 26.3 | 44.8 | 49 | G1/4 B (1/4" BSP) | - | 14 |
| 1430 | 63 | 9.6 | 27.4 | - | 62 | G1/4 B (1/4" BSP) | 53.5 | 14 |
| 1435 | 63 | - | 26.4 | 45 | 61.4 | G1/4 B (1/4" BSP) | - | 14 |
| 1444 | 100 | 11.5 | 30 | - | 99 | G1/2 B (1/2" BSP) | 83.5 | 22 |
| 1446 | 100 | - | 31 | 49 | 99 | G1/2 B (1/2" BSP) | - | 14 |

Ordering information

| Model | 1410 | 1415 | 1420 | 1425 | 1430 | 1435 | 1444 | 1446 |
|-------------|---|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |
| Range (bar) | Part number | | | | | | | |
| -1...0 | 1410016001 | 1415016001 | 1420016001 | 1425016001 | 1430016001 | 1435016001 | 1444016001 | 1446016001 |
| -1...0.6 | 1410042901 | 1415042901 | 1420042901 | 1425042901 | 1430042001 | 1435042901 | 1444042001 | 1446042901 |
| -1...1.5 | 1410043001 | 1415043001 | 1420043001 | 1425043001 | 1430043001 | 1435043001 | 1444043001 | 1446043901 |
| -1...3 | 1410044001 | 1415044001 | 1420044001 | 1425044001 | 1430044001 | 1435044001 | 1444044001 | 1446044901 |
| -1...5 | 1410045001 | 1415045001 | 1420045001 | 1425045001 | 1430045001 | 1435045001 | 1444045001 | 1446045901 |
| -1...9 | 1410046901 | 1415046901 | 1420046901 | 1425046901 | 1430046001 | 1435046001 | 1444046001 | 1446046901 |
| -1...15 | 1410049901 | 1415049901 | 1420049901 | 1425049901 | 1430049001 | 1435049901 | 1444049001 | 1446049901 |
| 0...1 | 1410069001 | 1415069001 | 1420069001 | 1425069001 | 1430069001 | 1435069001 | 1444069001 | 1446069001 |
| 0...1.6 | 1410070001 | 1415070001 | 1420070001 | 1425070001 | 1430070001 | 1435070001 | 1444070001 | 1446070901 |
| 0...2.5 | 1410072001 | 1415072001 | 1420072001 | 1425072001 | 1430072001 | 1435072001 | 1444072001 | 1446072001 |
| 0...4 | 1410073001 | 1415073001 | 1420073001 | 1425073001 | 1430073001 | 1435073001 | 1444073001 | 1446073001 |
| 0...6 | 1410074001 | 1415074001 | 1420074001 | 1425074001 | 1430074001 | 1435074001 | 1444074001 | 1446074001 |
| 0...10 | 1410075001 | 1415075001 | 1420075001 | 1425075001 | 1430075001 | 1435075001 | 1444075001 | 1446075001 |
| 0...16 | 1410076001 | 1415076001 | 1420076001 | 1425076001 | 1430076001 | 1435076001 | 1444076001 | 1446076001 |
| 0...25 | 1410078001 | 1415078001 | 1420078001 | 1425078001 | 1430078001 | 1435078001 | 1444078001 | 1446078001 |
| 0...40 | 1410079001 | 1415079001 | 1420079001 | 1425079001 | 1430079001 | 1435079001 | 1444079001 | 1446079901 |
| 0...60 | 1410080901 | 1415080001 | 1420080001 | 1425080001 | 1430080001 | 1435080001 | 1444080001 | 1446080901 |
| 0...100 | 1410081901 | 1415081901 | 1420081001 | 1425081001 | 1430081001 | 1435081001 | 1444081001 | 1446081901 |
| 0...160 | 1410082901 | 1415082901 | 1420082001 | 1425082001 | 1430082001 | 1435082001 | 1444082001 | 1446082901 |
| 0...250 | 1410084901 | 1415084901 | 1420084001 | 1425084001 | 1430084001 | 1435084001 | 1444084001 | 1446084901 |
| 0...315 | 1410085901 | 1415085901 | 1420085001 | 1425085001 | | | | |
| 0...400 | 1410086901 | 1415086901 | 1420086001 | 1425086001 | 1430086001 | 1435086001 | 1444086001 | 1446086901 |

Standard pressure gauges

Nominal size ND 80 and ND 100

Connection position bottom, radial
or back, central

Option:
for sanitary and heating



Description

Pressure gauges of the comprehensive standard can be used in all applications where liquid and gaseous media are not highly viscous or do not attack copper alloys or crystallize.

All standard pressure gauges comply with general international recommendations for measuring systems and take requirements for specific applications and technical standards into consideration (EN 837-1).

The rear central connection enables simple conversion to the panel mounted version.

Special features

- o Plastic-case ABS
- o Copper alloy measuring system
- o Accuracy class 1.6

Measuring Ranges






0 ... 0.6 bar to 0 ... 400 bar

Applications

Pneumatic control systems
Air-conditioning
Sprinkler systems

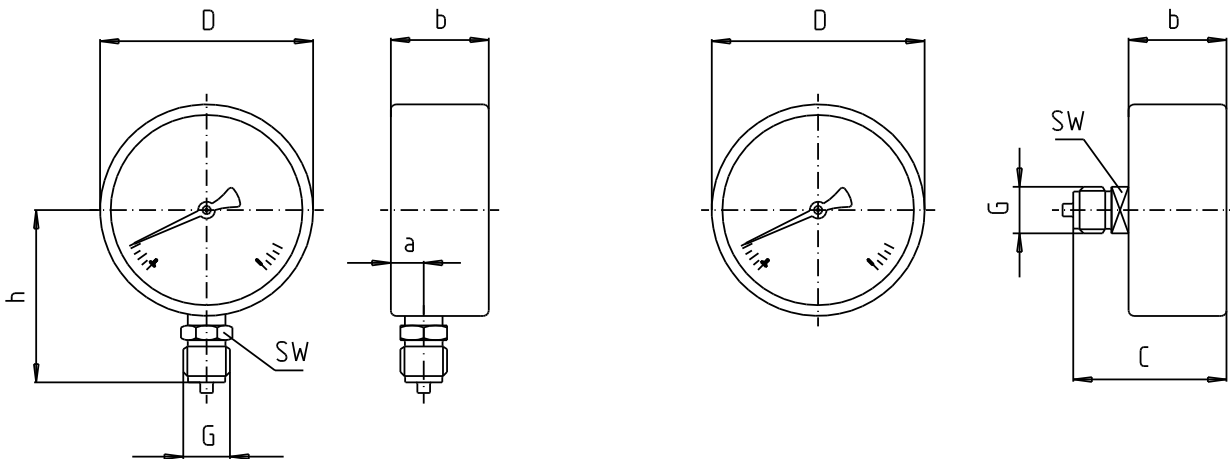
**Models: P1440, P1442, P1444,
P1446, P1495**

Technical data

| Models | P1440 | P1442 | P1444 | P1446 | P1495 | Options | |
|--------------------------------------|---|---|---|---|---|--------------------------|---------------|
| Nominal size | 80 | | 100 | | 160 | | |
| Symbol |  |  |  |  |  | | |
| Accuracy class | 1.6 to EN 837-1 | | | | | | |
| Ranges | 0...0.6 bar to 0...400 bar negative or positive, or negative and positive gauge pressure | | | | 0...1 bar up to 0...40 bar divided in mWS for hydrometers | | |
| Application | Constant load: 3/4 x of full scale value Alternating load: 2/3 x of full scale value short-time: full scale value | | | | | | |
| Case | Plastic, black (ABS) | | | Steel, black | steel, black | | |
| Bezel | none | | | | steel, chrome plated | | |
| Window | Plexiglass, clipped-on | | | | glas lens | | |
| Dial | Aluminium white, scale black | | Aluminium white, scale black and red marker pointer | | | glass lens ¹⁾ | |
| Pointer | Aluminium, black | | | | | | |
| Movement | CuZn alloy | | | | | | |
| Measuring element | Cu alloy | | | | | | |
| Pressure connection - position | CuZn alloy radial bottom | | back central | radial bottom | back central | radial bottom | |
| - thread | G 1/2 B | | G 1/4 B | G 1/2 B | G 1/4 B | G 1/2 B | |
| | | | | | | | NPT threads |
| Temperatures - Media - Ambient | Tmax. 60°C Tmin. -40°C, Tmax. 60°C | | | | | | |
| Temperature behaviour | 0.4 % /10K if deviation from normal temperature 20°C | | | | | | |
| Orifice | without | | | | | | ø 0.4 ; ø 0.8 |
| Weight approx. | 0.18 kg | 0.11 kg | 0.21 kg | 0.26 kg | 0.85 kg | | |

¹⁾ Only in combination with metal case and ring

Dimensions



Models: P1440, P1444, P1495

Models: P1442, P1446

| Models | Dimensions in mm | | | | | | | |
|--------|------------------|---------|---------|---------|---------|-------|---------|----|
| | ND | a ± 0,5 | b ± 0,5 | c ± 0,5 | D ± 0,5 | h ± 1 | G | SW |
| P1440 | 80 | 11,5 | 30 | -- | 79 | 72 | G 1/2 B | 22 |
| P1442 | 80 | -- | 32 | 49 | 79 | -- | G 1/4 B | 14 |
| P1444 | 100 | 11,5 | 30 | -- | 99 | 83,5 | G 1/2 B | 22 |
| P1446 | 100 | -- | 31 | 49 | 99 | -- | G 1/4 B | 14 |
| P1495 | 160 | 15,5 | 41,5 | -- | 160 | 115,5 | G 1/2 B | 22 |

Modifications reserved