

# DIGITAL PRESSURE GAUGE TYPE 3321 AND 3322



**Nominal size 80**

**7-segment LCD**

**Accuracy  $\leq \pm 0,5\% \pm 1$  digit**



## Description

The digital manometer can be used to measure pressure in gaseous and liquid media (water, oil) that do not attack VA alloys and are not highly viscous.

The robust stainless steel housing and the battery supply allow flexible use.

The bar graph display integrated in the display with drag pointer function (for series 3322 with 2nd display), as well as the minimum and maximum measured value memory enable an effective analysis of the measuring point.

The option of unit switching from bar to psi or MPa is integrated.

## Applications

- Mechanical engineering
- Hydraulics and pneumatics
- Pumps and compressors
- Service tasks

## Features

- Case and wetted parts made of stainless steel
- 7-segment LCD display, digit size 11 mm
- Peak recording Min-/Max
- Switching the pressure unit from bar to MPa or psi
- Type 3322 with background lighting, tare function, password protection, reset to factory settings

## Measuring ranges

- 0...5 bar up to 0...600 bar
- Vacuum -1...+5 bar up to -1...+10 bar

## Options and accessories

- 14-segment LCD (digit size 7 mm)
- Rubber protection cap (black)
- Minimes connector (max. pressure strength 630 bar)

## Technical data

| Type                                                          | 3321                                                                                                                                                                                                                               | 3322                                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Nominal size                                                  | NS 80                                                                                                                                                                                                                              |                                                                                       |
| Accuracy                                                      | $\leq \pm 0,5\%$ FS $\pm 1$ digit, vacuum and +/- measuring ranges $\leq \pm 1,0\%$ FS $\pm 1$ Digit incl. non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2)          |                                                                                       |
| Measuring ranges                                              | -1...0 bar, -1...+5 / -1...+10 bar<br>0...5 / 0...10 / 0...20 / 0...50 / 0...100 / 0...160 / 0...250 / 0...400 / 0...600 bar<br><br>0...145 up to 0...10.000 psi (9999 at type 3321)<br>-30 inHg...+72 psi and -30 inHg...+145 psi |                                                                                       |
| Long-term stability                                           | $\leq \pm 0,2\%$ FS/year                                                                                                                                                                                                           |                                                                                       |
| Overpressure                                                  | 2-fold, example: -1...5 bar, 0...5 bar - 10 bar / 0...600 bar - 1200 bar                                                                                                                                                           |                                                                                       |
| Temperature error at 0...60°C                                 | Mean temperature coefficient of zero point - $\leq \pm 0,15\%$ of span/10K<br>Mean temperature coefficient of span - $\leq \pm 0,15\%$ of span/10K                                                                                 |                                                                                       |
| Material connection<br>Material case                          | CrNi 316 Ti<br>CrNi 304                                                                                                                                                                                                            |                                                                                       |
| Front foil and window                                         | Polyester                                                                                                                                                                                                                          |                                                                                       |
| Thread                                                        | G $\frac{1}{4}$ A, G $\frac{1}{4}$ B optional G $\frac{1}{2}$ B, $\frac{1}{4}$ NPT, $\frac{1}{2}$ NPT                                                                                                                              |                                                                                       |
| Display / digit size                                          | 7-segment- LCD, 4-digit, digit size 11 mm                                                                                                                                                                                          | 7-segment- LCD, 4 $\frac{1}{2}$ -digit optional 14-segment LCD digit size 11 mm / 7mm |
| Display range                                                 | -1999...9999                                                                                                                                                                                                                       | -1999...19999                                                                         |
| Update                                                        | 200 ms                                                                                                                                                                                                                             |                                                                                       |
| Backlight                                                     | No                                                                                                                                                                                                                                 | Yes                                                                                   |
| Bargraph                                                      | Yes, with drag pointer function                                                                                                                                                                                                    | Yes, with drag pointer function and 2. display                                        |
| Rotatability                                                  | No                                                                                                                                                                                                                                 | Yes, 300°                                                                             |
| Medium temperature<br>Area temperature<br>Storage temperature | -30°C...+100°C (-22°F...212°F)<br>-10°C...+60°C (14°F...140°F)<br>-20°C...+70°C (-4°F...158°F)                                                                                                                                     |                                                                                       |
| Protection acc. IEC 60529                                     | IP65                                                                                                                                                                                                                               |                                                                                       |
| Power supply                                                  | 2x 1,5 V AA, battery life 4.000 hours, when using batteries with a capacity of 2.000 mAh                                                                                                                                           |                                                                                       |
| Min-/Max-Memory                                               | Yes                                                                                                                                                                                                                                | Yes                                                                                   |
| Automatic power off                                           | No                                                                                                                                                                                                                                 | Yes - 15, 30, 60, 120 minutes                                                         |
| Tara function                                                 | No                                                                                                                                                                                                                                 | Yes                                                                                   |
| Unit switching                                                | Yes - bar, psi, MPa                                                                                                                                                                                                                |                                                                                       |
| Password protection                                           | No                                                                                                                                                                                                                                 | Yes                                                                                   |
| Reset to factory setting                                      | No                                                                                                                                                                                                                                 | Yes                                                                                   |
| Weight                                                        | approx. 0,410 kg                                                                                                                                                                                                                   | approx. 0,410 kg                                                                      |

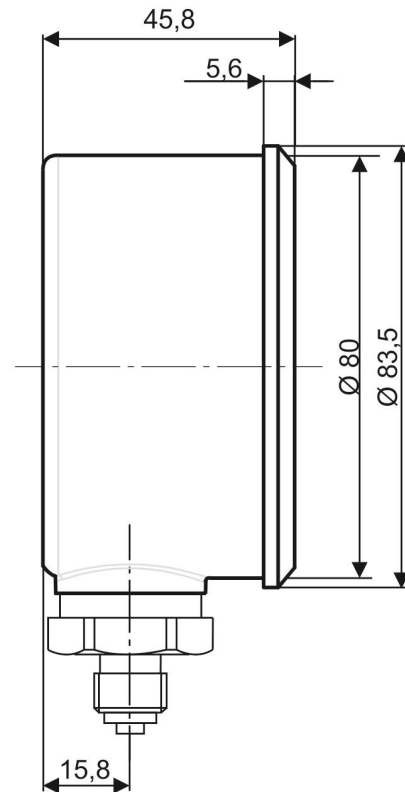
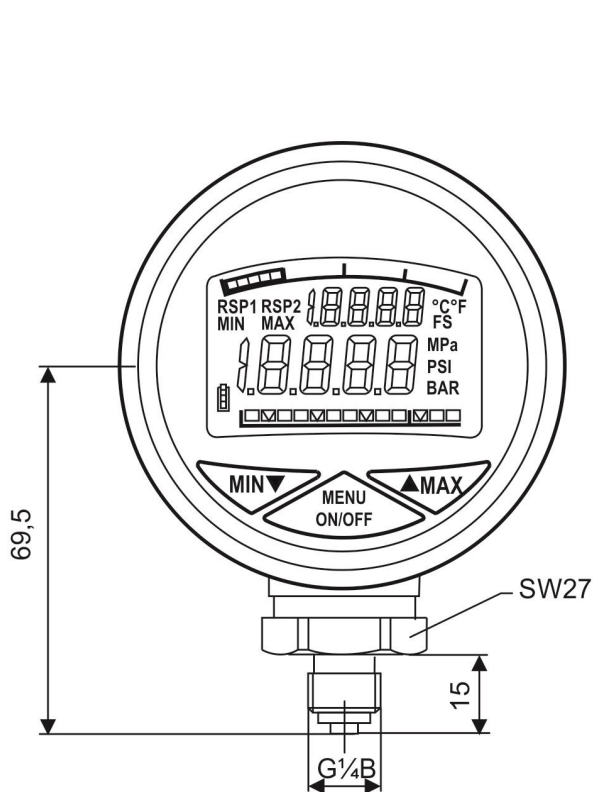
## Dimensional drawings

Dimensions in mm

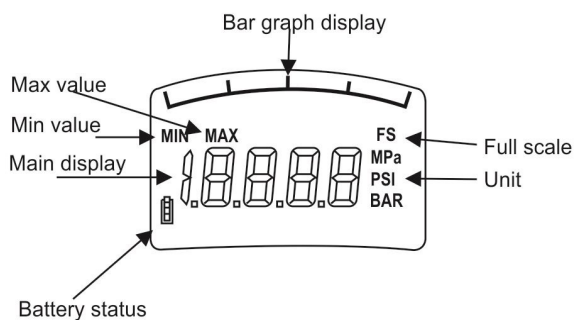
Type 3321, 3322



DRUCK & TEMPERATUR



### Display type 3321



### Display type 3322

