# Digital pressure gauges DIM 30

**Part no. 33406R114011**

**Precision digital pressure gauges**

**benefits**

- accuracy ≤ ± 0.05 % at 400 mbar and higher
- suitable for on-site calibration or pressure transducers
- graphical LC display
- Data logger function

## Application

For mobile electronic pressure measurement with high demands in terms of accuracy and long-term stability in process engineering as well as mechanical and plant engineering applications. Suitable for monitoring pressure and temperature behaviour as well as on-site calibration of pressure transducers.

## Description

The battery-operated digital pressure gauge DIM 30 consists of two devices – the digital display with a graphical LC display and a pressure transducer with a piezo-resistive stainless steel sensor. The pressure transducer can be replaced without tools and without calibration for other measurement tasks. The integrated data logger can record pressure and temperature values linearly and cyclically. These measured values can be analysed with the enclosed PC evaluation software.

## Technical Specifications

**Display**
backlit graphical LC display,
visible area 55 x 46 mm,
Indication of measured values max. 7 digits,
temperature indication,
Time,
100-segment bar chart potential input value,
user interface language selectable (German/English),
Duration and intensity of of backlight adjustable

**Indication of measured values**
bar, mbar, hPa, kPa, MPa, psi, inHg, cmHg, mmHg, in$H_2O$, mm$H_2O$, m$H_2O$, or kg/cm$^2$
selectable pressure unit

**temperature indication**
Measuring range: -10/+55 °C
Resolution: 0.1 °C
Accuracy: ± 2 K

**Data logger**
stores pressure values and sensor temperature (sec., min., hour, daily at an adjusted time)
max. 600,000 values
Adjustable measurement interval

**Zero correction**
from the front via keypad

**Measuring accuracy**
Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)
≥ 0/0.4 bar
≤ ± 0.05 % FSO (BFSL)

**Long-term stability**
≤ ± 0.1 % FSO/year

**Measuring range**
0/10 bar

**Overpressure safety**
at least 3 x FS

**Burst pressure**
at least 5 x FS

**Operating temperature range**
Medium: -10/+55 °C
Ambient: -10/+55 °C
Storage: -20/+70 °C

**Housing diameter**
100 mm

**Process connection**
G½B (DIN 3852)

**material**
Housing: Stainless steel 304
Process connection: Stainless steel 304
diaphragm: Stainless steel 316 L
Seal: FKM (Viton)

**wetted parts**
Process connection, diaphragm, Seal

**Mounting position**
any

**Supply voltage**
3 x 1.5 V AA batteries
standard mode: > 2000 hours
standby mode: > 5 Jahre

**Current input**
without backlight: ca. 1.3 mA
with backlight: ca. 16 mA
depends on adjusted intensity
standby mode: ca. 1.2 µA

**Degree of protection**
IP 67 (EN 60529)

**CE conformity**
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU
Pressure Equipment Directive 2014/68/EU (module A)

**Scope of delivery**
- Precision digital pressure gauge DIM 30
- batteries
- PC connection cables
- Evaluation software on CD-ROM

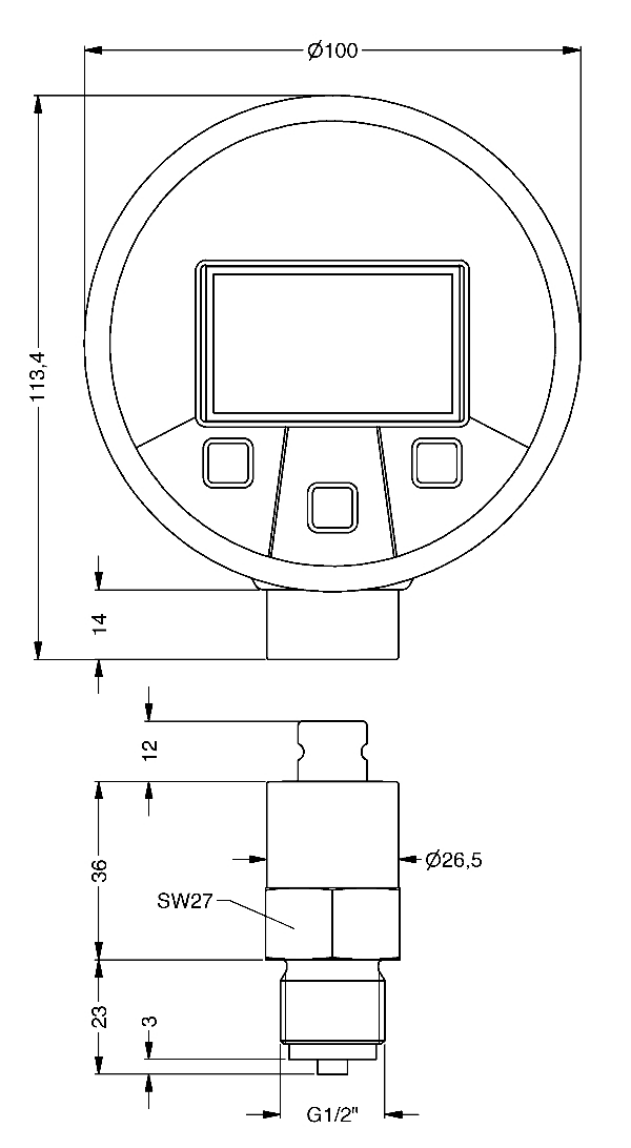
**Options**
- other process connections
- without seal (weld version only for process connections as per EN 837)

## Options

- other process connections
- without seal (weld version only for process connections as per EN 837)

## Technical Drawings

**digital pressure gauge DIM 30**




**Dimensions (mm)**

## Versions

| | Process connec-tion | pressure range | Overload | Burst pressure | | Part no. |
|---|---|---|---|---|---|---|
| Digital pressure gauges DIM 30 | | 0/10 bar | at least 3 x FS | at least 5 x FS | ● | 33406R114011 |

● in-stock items

● Non-stock items