



## Digital pressure gauges DIM 20

Part no. 32505

universal digital pressure gauge

### benefits

- universal test pressure gauge with high measuring accuracy
- high flexibility due to selectable units: bar/mbar/psi/inHg/mmHg/cmHg/kPa/MPa/mWC
- Min./max. memory
- intuitive operation via menus
- Display can be rotated by 330°
- Zero and full scale can be calibrated
- adjustable auto-off function



### Application

For high-precision electronic pressure measurement with local digital display, for applications such as hydraulics, pneumatics, mechanical and plant engineering. Compact microprocessor-controlled pressure gauge with thick film ceramic measuring cell. The signal received from the pressure sensor is processed by the microprocessor, converted into the desired unit and displayed. Each device is shipped with its own measurement log.

### Description

Compact microprocessor-controlled pressure gauge with thick-film ceramic measuring cell. The signal received from the pressure sensor is processed by the microprocessor, converted into the desired unit and displayed. Each device is shipped with its own measurement log.

### Technical Specifications

#### functions

units switching,  
Min./max. value memory,  
zero and full scale calibration,  
adjustable auto-off function,  
adjustable decimal point,  
battery status indication

#### Indication of measured values

bar, mbar, psi, inHg, mmHg, cmHg, kPa, MPa oder mWS  
selectable pressure unit

#### Display

multi-line LCD,  
4.5 digit, numeric, for displaying the measured value (character height 9.5 mm) – line 1,  
6-digit, alphanumeric, for displaying additional information (character height 6.8 mm) and additional symbols – line 2,  
Display can be rotated by 330°

#### Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)  
± 0.5 % FSO (BFSL)

**Measuring range**

0/6 bar

**Overpressure safety**

at least 1.5 x FS

**Burst pressure**

≤ 160 bar at least 2.5 x FS  
> 160 bar at least 1.5 x FS

**Operating temperature range**

Medium: -20/+125 °C  
Ambient: -20/+45 °C  
Storage: -30/+80 °C

**Temperature error band**

≤ ± 0.5 % FSO/10 K In compensated range 0/70 °C

**dynamic characteristics**

Measuring rate: 5 Hz

**Process connection**

G $\frac{1}{4}$ B (EN 837-1/7.3, bottom)

**material**

Housing: PA6, glass-loaded  
Process connection: Stainless steel 304  
diaphragm: ceramic (Al<sub>2</sub>O<sub>3</sub> 96 %)  
Seal: FKM

**Degree of protection**

IP 51 (EN 60529)

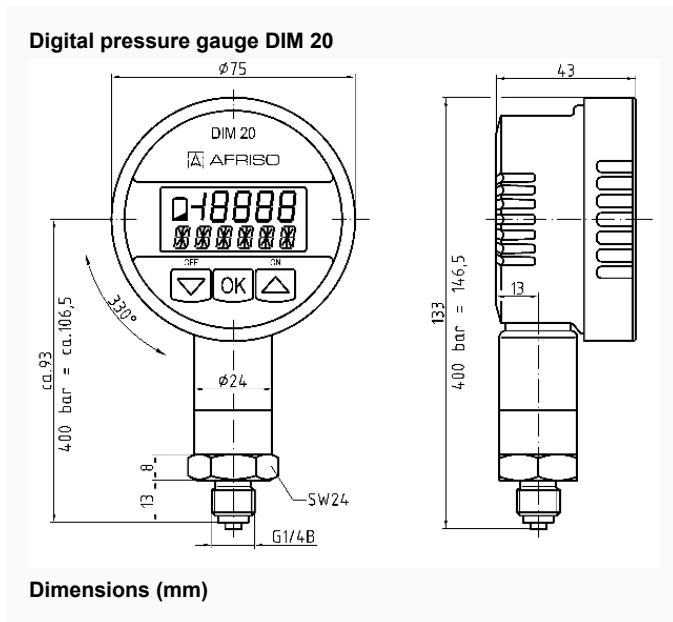
**Supply voltage**

1 x 3.6 V lithium battery  
service life up to 5 years, depending on use

**CE conformity**

EMC Directive 2014/30/EU  
RoHS Directive 2011/65/EU  
Pressure Equipment Directive 2014/68/EU module A

**Technical Drawings**



**Versions**

|                                   | Measuring range |   | Part no. |
|-----------------------------------|-----------------|---|----------|
| Digital pressure gauges<br>DIM 20 | 0/6 bar         | ● | 32505    |
| ● in-stock items                  |                 |   |          |
| ● Non-stock items                 |                 |   |          |