



Universal digital pressure gauge DIM 20



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.

Versions

	Measuring range	Part no.
Digital pressure gauges DIM 20	-1/0 bar	32500
Digital pressure gauges DIM 20	0/6 bar	32505
Digital pressure gauges DIM 20	0/10 bar	32506
Digital pressure gauges DIM 20	0/25 bar	32508
Digital pressure gauges DIM 20	0/40 bar	32509
Digital pressure gauges DIM 20	0/100 bar	32511
Digital pressure gauges DIM 20	0/160 bar	32512
Digital pressure gauges DIM 20	0/2.5 bar	32503
Digital pressure gauges DIM 20	0/250 bar	32513
Digital pressure gauges DIM 20	0/400 bar	32514
Digital pressure gauges DIM 20	0/700 bar	32516

Blue part no. = in-stock items



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)
 $\pm 0.5\%$ FSO (BFSL)

Measuring range

See ordering table

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

$\leq \pm 0.5\%$ 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)

Material

Housing: PA6, glass-loaded
Process connection: Stainless steel 304
Diaphragm: Ceramic (Al₂O₃ 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

Digital pressure gauge DIM 20

