

Universal digital pressure gauges

DIM 20 service instrument



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- High flexibility due to selectable units
- Min./max. value memory
- Intuitive operation via menus
- Display can be rotated by 330°
- Zero and full scale can be calibrated

Application High-precision electronic pressure measurement with local digital display, for applications such as hydraulics, pneumatics, mechanical and plant engineering.

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

Selection of units, min./max. memory, zero and full scale calibration, adjustable auto-off function, adjustable decimal point, battery status indication

Displayed values

Selectable pressure unit:
bar/mbar/psi/inHg/mmHg/cmHg/kPa/MPa/mWC

Display

Multi-line LC display
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

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

Measuring ranges

Relative pressure: -1/0 bar, 0/2.5 bar to 0/700 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

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

Dynamic characteristics

Measuring rate 5/s

Process connection

G1/4B (EN 837-1/7.3), bottom

Materials

Housing: PA6, glass-loaded
Pressure connection: Stainless steel 304
Diaphragm: Ceramic (Al₂O₃ 96 %)
Seal: FKM

Degree of protection

IP 51 (EN 60529)

Supply voltage

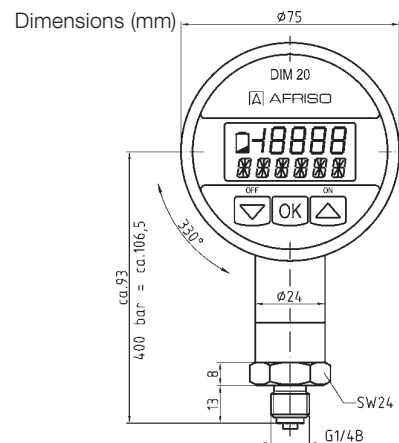
1 x lithium battery 3.6 V (included), battery life depends on usage (max. 5 years)

CE conformity

EMC Directive 2014/30/EU
RoHs Directive 2011/65/EU
PED 2014/68/EU (module A)



See the catalogue PORTABLE MEASURING INSTRUMENTS for additional test, inspection and service instruments for mobile use.



Digital pressure gauge DIM 20

DG: H, PG: 4

Type	DIM 20
Version	
Housing Ø	75
Housing	Plastic
Measuring accuracy	0.5 % FSO BFSL
Wetted parts	Stainless steel 304 ceramic/FKM
Connection	G¼B
Supply voltage	DC 3.6 V
Output	---
Measuring range	Part no.
Price €	
0/400 mbar	---
Price €	
-1/0 bar	32500
0/0.6 bar	---
0/1 bar	---
Price €	
0/1.6 bar	---
0/2.5 bar	32503
0/4 bar	---
0/6 bar	32505
0/10 bar	32506
0/16 bar	---
0/25 bar	32508
0/40 bar	32509
Price €	
0/60 bar	---
0/100 bar	32511
0/160 bar	32512
0/250 bar	32513
0/400 bar	32514
0/600 bar	---
Price €	
0/700 bar	32516
Extra charges (without PG)	Spare battery PG: 4 Part no. 68309 Price €
	Connection ¼-18NPT Price € *

* Extra charge; please append N2 to the part no. when ordering.
Blue part no. = in-stock items