

Precision Digital Test Gauge

DG05/DG1

Piezoresistive sensor element.

Accuracy 0.1% or 0.05% F.S. **Total Error Band**, includes all effects of linearity, hysteresis, repeatability and temperature from -18 up to 63°C.

Features:

- Industry leading accuracy.
- Big display with bar graph.
- Rugged stainless steel case.
- 12 Engineering units.
- Min. / max. recall.
- 7 languages.
- Adjustable update and dampen modus.
- Display backlight.
- Field calibration capability.
- Disable mode.



Ranges:

- 1 ... 0 bar up to 0 ... 500 bar.
- 30 ... 0 Inch Hg up to 0 ... 7,000 psi.

Technical specification

Measuring principle

Range: [mbar]
[bar]
[barabs]

Overpressure limit

Pressure type

Case size

Process connection

Connection orientation

Material: Process connection
Sensor
Case
Display

Power supply

Display: Type
Digits, resolution
Features

Accuracy: 0,1% F.S. 0,05% F.S.

Engineering units Method Including
Linearity, hysteresis, repeatability and temperature (-18 ... 63°C)

psi, in. Hg, in. H₂O, ftSW, bar, mbar, kPa, Mpa, mmHg, cmH₂O, mmH₂O, kg/cm²
(Inches of water ranges for 3 reference temperatures: 4°C, 20°C and 60°F)
4 options: 10, 5, 2 or 1

Update rate [sec⁻¹]

Damping 5 options: none, average 2, 4, 6 or 8 readings

Auto off [min] 5 options: never, 2, 5, 15 or 30

Language of setup menu English, German, French, Spanish, Portuguese, Italian and Dutch

Permissible: Ambient temperature -18 ... 63°C, temperature corrected

Storage temperature -40 ... 82°C

Approvals, explosion proof Intrinsically safe FM, (CSA- and CENELEC ATEX 100 approvals pending)

CE-mark/EMC Immunity according to EN 50 0821-1 (March 1997)

Protection according EN 60 529/IEC 529 Emission according to EN 50 022 (1995)

Weight [kg] IP65

0,5

DG1

Dg05

Piezoresistive sensor element with internal stainless steel diaphragm.

250 400 600

1	1,6	2,5	4	6	10
16	25	40	60	100	160
250	400	500	-1/0	-1/1	-1/2
1	1,6	3,4			

100% F.S.

Gauge, vacuum, compound and absolute.

3 Inch. (75 mm)

G ¼ B according to EN 837-1.

Lower

Stainless steel 316 (1.4404)

Stainless steel 316 (1.4404)

300 serie stainless steel, electropolished

Lexan

3 AAA alkaline batteries, battery life > 1000 hours

LCD with backlight

4 ½ digit, 19,999 counts, 16 mm high

Bar graph 0 ... 100% F.S., battery level indicator, warning if pressure is out of range

0,1% F.S.

0,05% F.S.

Terminal point, total error band (TEB)

Linearity, hysteresis, repeatability and temperature (-18 ... 63°C)

psi, in. Hg, in. H₂O, ftSW, bar, mbar, kPa, Mpa, mmHg, cmH₂O, mmH₂O, kg/cm²
(Inches of water ranges for 3 reference temperatures: 4°C, 20°C and 60°F)

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-18 ... 63°C, temperature corrected

-40 ... 82°C

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IP65

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