The Digi-Mag® Series DM-1100 Digital Differential Pressure Gage monitors the pressure of air and compatible gases just as its famous analog predecessor the Magnehelic® Differential Pressure Gage. All models are factory calibrated to specific ranges as listed in the chart below. The 4-digit LCD can display pressure readings in eight common English and metric units so conversions are not necessary. The simplified four button operation reduces setup time and simplifies calibration with its digital push button zero and span. The gage may be powered with 9-24 VDC or 9V battery alone when power is not available.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Housing Materials: Glass filled plastic.
Accuracy: ±1% F.S. including linearity, hysteresis and repeatability; ±2% F.S. for ranges 1 in w.c. and below.
Temperature Limits: 0 to 140°F (-18 to 60°C).
Compensated Temperature Limits: 32 to 122°F (0 to 50°C).
Long Term Stability: ±1% F.S. per year.
Thermal Effect: ±0.05% F.S./°F typ.; ±0.10% F.S./°F for ranges 1 in w.c. and below.
Display: 4-digit LCD (Digits: 0.60˝H x 0.33˝W).
Display Update: Selectable for 1 second to 10 minutes or update only from button push.
Pressure Limits: Normal and bi-directional ranges 5˝ w.c. and lower = 2 psi (13.7 KPa); Normal and bi-directional ranges 10˝ w.c. and higher = 11 psi (75 KPa).
Selectable Engineering Units: in w.c., psi, kPa, Pa, mm w.c., mBar, in Hg, mm Hg, FS (0-100%).
Power Requirements: 9V battery or external power supply 9-24 VDC. Battery included but not connected.
Type of Battery: 9V alkaline battery (Duracell® PC 1604 or equivalent).
Battery Service Life: Battery life depending on the Display Update setting: 150 hours (typical) if Display Update = 1 second; 9 month (typical) if Display Update = 10 minutes; 1.5 years (typical) if Display Update is disabled. Battery may last up to four times longer when using lithium-based battery ULTRALIFE U9VL-J.
Current Consumption: 5 mA maximum.
Electrical Connections: Removable terminal block for 16 to 26 AWG.
Electrical Entry: Cable gland for 0.114 to 0.250˝ (2.9 to 6.4 mm) diameter cable.
Process Connections: 1/8˝ (3 mm) I.D. tubing.
Enclosure Rating: NEMA 4X (IP66).
Weight: 1.18 lb (535 g).
Size: 5˝ (127 mm) O.D. front face.

Contact the factory for available bi-directional ranges from ±0.25˝ w.c. to ±10˝ w.c.

Model | Range (in w.c.) | psi | kPa | mbar | mm w.c. | in Hg | mm Hg | % of FS | Resolution (in w.c.)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
DM-1102 | 0.250 | — | 0.062 | 62.20 | 0.022 | 0.35 | — | 0.407 | 100.0 | 0.001
DM-1103 | 0.500 | — | 0.124 | 124.5 | 1.245 | 12.70 | — | 0.934 | 100.0 | 0.001
DM-1104 | 1.000 | — | 0.249 | 249.1 | 2.492 | 25.40 | — | 1.868 | 100.0 | 0.001
DM-1105 | 2.000 | — | 0.498 | 498.2 | 4.982 | 50.80 | — | 3.736 | 100.0 | 0.001
DM-1107 | 5.000 | 0.181 | 1.245 | 1245 | 12.45 | 127.0 | 0.368 | 9.34 | 100.0 | 0.002
DM-1108 | 10.00 | 0.361 | 2.491 | 2491 | 24.91 | 254.0 | 0.736 | 18.68 | 100.0 | 0.010
DM-1109 | 15.00 | 0.543 | 3.736 | 3738 | 37.38 | 381.0 | 1.104 | 28.02 | 100.0 | 0.010
DM-1110 | 25.00 | 0.903 | 6.227 | 6227 | 62.27 | 635.0 | 1.839 | 46.71 | 100.0 | 0.010
DM-1111 | 50.00 | 1.806 | 12.45 | 1245 | 124.5 | 1270 | 3.678 | 93.42 | 100.0 | 0.020
DM-1112 | 100.0 | 3.613 | 24.91 | 2491 | 249.1 | 2540 | 7.355 | 186.8 | 100.0 | 0.100

Contact the factory for available bi-directional ranges from ±0.25˝ w.c. to ±10˝ w.c.