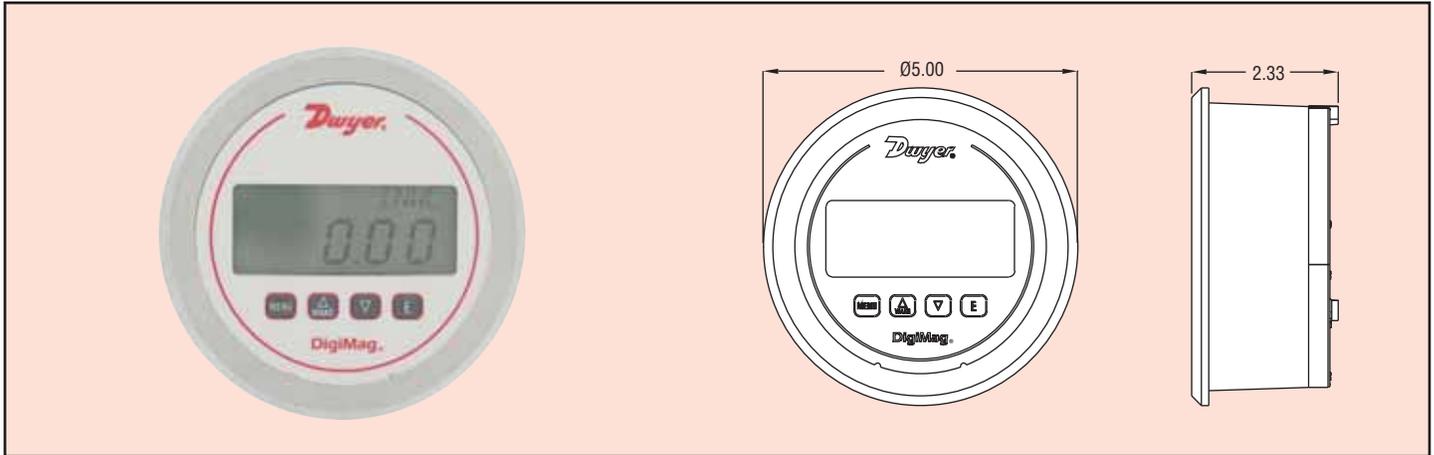




Series  
DM-1100

# DigiMag<sup>®</sup> Digital Differential Pressure Gage

24 Volt or Battery Powered. Fits in Magnehelic<sup>®</sup> Gage Cut-Out



The Digi-Mag<sup>®</sup> Series DM-1100 Digital Differential Pressure Gage monitors the pressure of air and compatible gases just as its famous analog predecessor the Magnehelic<sup>®</sup> 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 set up 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.

## ACCESSORIES

- A-299**, Surface Mounting Bracket
- A-300**, Flat Flush Mounting Bracket
- A-310A**, 3-Way Vent Valve
- A-480**, Plastic Static Pressure Tip

## SPECIFICATIONS

- Service:** Air and non-combustible, compatible gases.
- Wetted Materials:** Consult factory.
- Housing Materials:** Glass filled plastic.
- Accuracy:**  $\pm 1\%$  F.S. including linearity, hysteresis and repeatability;  $\pm 2\%$  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:**  $\pm 1\%$  F.S. per year.
- Thermal Effect:**  $\pm 0.05\%$  F.S./°F typ.;  $\pm 0.10\%$  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<sup>®</sup> 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.

Model	Range									Resolution (in w.c.)
	(in w.c.)	psi	kPa	Pa	mbar	mm w.c.	in Hg	mm Hg	% of FS	
DM-1102	0.250	—	0.062	62.20	0.622	6.35	—	0.467	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	3.738	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	—	124.5	1270	3.678	93.42	100.0	0.020
DM-1112	100.0	3.613	24.91	—	249.1	2540	7.355	186.8	100.0	0.100

Contact the factory for available bi-directional ranges from  $\pm 0.25$ " w.c. to  $\pm 10$ " w.c.



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