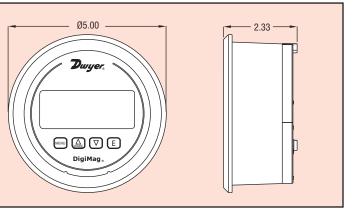


# Series DM-1000 DigiMag<sup>®</sup> Digital Differential Pressure and Flow Gages 24 Volt or Battery Powered, Fits in Magnehelic<sup>®</sup> Gage Cut-Out





## The Digi-Mag<sup>®</sup> Series DM-1000 Digital Differential Pressure and Flow Gages

monitor 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 readings in 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 DigiMag® Digital Gages are more versatile than analog gages with their ability to be field-programmed to select pressure, air velocity or flow operation depending on model. The DigiMag® Digital Gages have an added feature for filter applications where a set point can be input where the display will blink when the filter is dirty, alerting the user that a maintenance action needs to occur.

Programming the Series DM-1000 is easy using the menu key to access 4 simplified menus which provide access to depending on model: Security level; engineering units; K-factor for use with various Pitot tubes and flow sensors, circular or rectangular duct size for volumetric flow operation; filter set point; view peak and valley process readings; digital damping for smoothing erratic process applications; display update to conserve battery life; zero and span field calibration.

The Series DM-1000 DigiMag® Digital Differential Pressure and Air Flow Gages possess a full-scale accuracy of 1% on ranges down to 2" w.c. and 2% accuracy down to the very low ranges of 1" to 0.25" w.c. DigiMag® Digital Differential Pressure Gages offer power versatility by working with 9-24 VDC line power or simply 9V battery power. If using line power and connecting the 9V battery, the battery will act as a back-up if line power is lost or interrupted.

## ACCESSORIES

A-299, Surface Mounting Braket A-300, Flat Flush Mounting Braket A-286, 4-1/2" Gage Panel Mounting Flange A-310A, 3-Way Vent Valve A-480, Plastic Static Pressure Tip A-481, Installer kit. Includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing

## Range Resolution Model (in w.c.) psi kPa Pa mbar mm w.c. in Hg mm Hg % of FS (in w.c.) DM-1102 0.250 0.062 62.20 100.0 0.622 6 35 0 467 0.001 DM-1103 0.500 0.124 124.5 0.934 100.0 1.245 12.70 0.001 DM-1104 1.000 0.249 249.1 1.868 100.0 2 4 9 2 25 40 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 1.839 100.0 25.00 0.903 6.227 6227 62 27 635.0 46.71 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 ±0.25" w.c. to ±10" w.c. Note: For air flow models change -11XX to -12XX.

## 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. Agency Approvals: CE.

# **NEW PRODUCT!**