



PRESSURE

DIFFERENTIAL PRESSURE GAUGES 2000 SERIES

DESCRIPTION

The **Dwyer 2000 Series Magnehelic® Differential Pressure Gauges** provide an accurate, economical indication of positive, negative, or differential air pressure. The gauge includes a 4" (10.2 cm) easy-to-read dial and a frictionless magnetic movement in a cast aluminum housing, and it is resistant to shock, vibration, and overpressure. The Magnehelic® Gauge has both back and side connections, so that it may be either surface- or flush-mounted. Ranges are available from 0" to 0.25" W.C. up to 10" W.C.

FEATURES

- 2% full-scale accuracy
- Easy-to-read 4" (10.16 cm) white dial and red-tipped pointer
- Flush or surface mounting
- Easily accessible zero adjustment
- Corrosion-resistant cast aluminum housing
- Back and side connections

APPLICATION

The **2000 Series** is ideal for monitoring fan and blower pressures, filter resistance, air velocity, and pressure drop across coils. It may be used to measure positive, negative, or differential pressures of air or compatible gases.

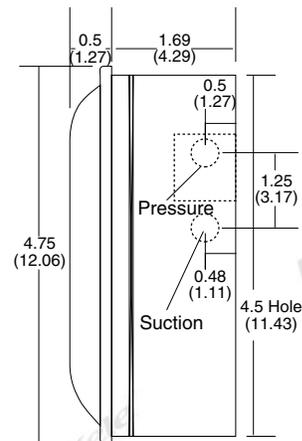
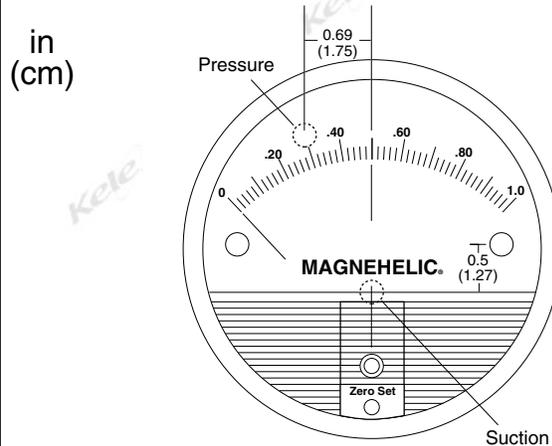


2001

SPECIFICATIONS

Supply Voltage (If Used)	Not Required
Readout (Analog, digital etc.)	Red tip needle w/ white back ground
Dial (white, mirrored, LCD, LED, Stop pins Etc.)	4" half dial w/ graduations per order
Window Material, (Glass, Polycarbonate etc.)	Clear acrylic plastic
Indication Scale	Selectable by order ("WC)
Accuracy	± 2% of Full scale @70°F (-0) ± 3% of Full scale (-00) ± 4% of Full scale
Calibration (adjustable, Fixed, Etc.)	Manual zero adjust by center screw
Sensor principle (Balanced, Bourdon tube, Capacitive)	Silicone diaphragm
Operating Pressure Ranges	-1" WC to 10"WC
Overpressure (Burst)	-20 in Hg to 15 psig (-67.75 to 103.45 kPa)
Max Operating Pressure (Proof)	-20 in Hg to 15 psig (-67.75 to 103.45 kPa)
Operating Temperature	20° to 140°F (-7° to 60°C)
Operating Humidity	0 to 95% Non-condensing
Wetted Parts	Silicone, aluminum, acrylic, polycarbonate and steel
Media Compatibility	Inert Dry Air
Process Connection	Two 1/8" FNPT (H/L), (Back & Side ports)
Connection Accessories	Two 1/8" FNPT barbed fittings & plugs (included)
Mounting	Vertically, Three flush mounting tabs (included)
Wiring Terminations	(if needed) None required
Enclosure Case Rating	Aluminum housing w/Clear Acrylic face
Enclosure Rating	NEMA 1
Dimensions	4.75 diameter (4.5" hole) x 1.69"D (12.6 (11.43) x 4.29cm)
Weight	1.2lb. (0.51kg)
Approvals	RoHS
Warranty	1 Year

DIMENSIONS



Note: Dimensions are slightly different on medium and high pressure models.



INSTALLATION

Mount the **2000 Series Magnehelic Gauge®** with the dial in a vertical position in a location free of excessive vibration or pulsating pressures. Sensing lines may be run any distance necessary, but long tubing lengths will increase response time slightly. If the pointer is not exactly on the zero mark with both the high- and low-pressure connections open to the atmosphere, adjust with the external zero adjust screw.

To monitor positive pressure, connect tubing from the source of pressure to either of the two high-pressure ports. Plug the other high-pressure port, and vent one or both low-pressure ports to atmosphere.

To monitor negative pressure, connect tubing from the source of negative pressure to either of the two low-pressure ports. Plug the other low-pressure port, and vent one or both high-pressure ports to atmosphere.

To monitor differential pressure, connect tubing from the source of the higher pressure to either of the two high-pressure ports. Connect tubing from the source of the lower pressure to either of the low-pressure ports. Plug both unused ports.

ORDERING INFORMATION

MODEL	RANGE "W.C.	MINOR DIV.	MODEL	RANGE ZERO CENTER "W.C.	MINOR DIV.
2000-00*	0-0.25	0.005	2300-0*	0.25-0-0.25	0.01
2000-0*	0-0.50	0.01	2301	0.5-0-0.5	0.02
2001	0-1.0	0.02	2302	1-0-1	0.05
2002	0-2.0	0.05	* These ranges are calibrated for vertical scale position		
2003	0-3.0	0.10			
2004	0-4.0	0.10			
2005	0-5.0	0.10			
2006	0-6.0	0.20			
2008	0-8.0	0.20			
2010	0-10	0.20			

Order by model number from selection chart above. Contact Kele for pressure ranges, metric ranges, and air velocity scales other than those shown.

A-301-K
A-302-K
A-345-K
A-368-K
A-605

RELATED PRODUCTS

Duct static pressure tip, 1/4" compression
Duct static pressure tip, 1/4" barb
Flange mounting kit (1 required for each A-301-K or A-302-K)
Surface mounting plate
Mounting kit for air filter application. Includes aluminum surface mounting brackets with screws, two 5 ft. lengths of 1/4" aluminum tubing, two static pressure tips and two plastic vent valves.
1/4" OD black poly tubing, 1 coil, 250 ft (76 m)

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