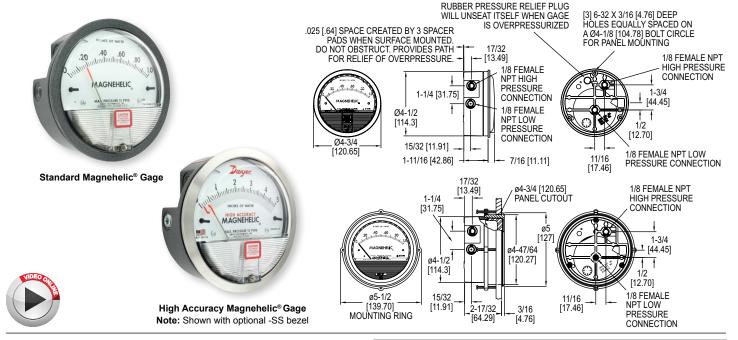
Dwyer.

MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES Indicate Positive, Negative or Differential, Accurate within 1%





Select the SERIES 2000 Magnehelic® Gage for a versatile low differential pressure gage with a wide choice of 81 models and 27 options to choose from. Using Dwyer's simple, frictionless Magnehelic® gage movement, it quickly indicates air or noncorrosive gas pressures--either positive, negative (vacuum) or differential. The design resists shock, vibration, over-pressures and is weatherproof to IP67.

Select the -HA High Accuracy Magnehelic® gage option for an accuracy within 1% of full scale. Also included with the -HA option at no extra cost are a mirrored scale overlay and a 6 point calibration certificate.

FEATURES/BENEFITS

- · Easy to read gage through undistorted plastic face permits viewing from far away
- Patented design provides quick response to pressure changes means no delay in assessing critical situations
- · Durable and rugged housing and high-quality components combine to provide longservice life and minimized down-time
- High accuracy option is twice as accurate as the standard Magnehelic® gage.

APPLICATIONS

- · Filter monitoring
- Air velocity with Dwyer pitot tube
- · Blower vacuum monitoring
- · Fan pressure indication
- · Duct, room or building pressures
- · Clean room positive pressure indication

ACCESSORIES					
Model	Description				
A-432	Portable kit; combine carrying case with any Magnehelic®				
	gage of standard range, except high pressure connection.				
	Includes 9 ft (2.7 m) of 3/16" ID rubber tubing, standhang				
	bracket and terminal tube with holder				
A-605	Air filter gage accessory kit; adapts any standard				
	Magnehelic® gage for use as an air filter gage. Includes				
	aluminum surface mounting bracket with screws, two 5 ft (1.5				
	m) lengths of 1/4" aluminum tubing, two static pressure tips				
	and two molded plastic vent valves, integral compression				
	fittings on both tips and valves				
A-605B	Air filter gage accessory kit; air filter kit with two plastic				
	open/close valves, two 4" steel static tips, plastic tubing and				
	mounting flange				
A-605C	Air filter gage accessory kit; air filter kit with two plastic				
	open/close valves, two plastic static tips, plastic tubing and				
	mounting flange				

SPECIFICATIONS

Service: Air and non-combustible, compatible gases (natural gas option available). Note: May be used with hydrogen. Order a Buna-N diaphragm. Pressures must be less than 35 psi.

Wetted Materials: Consult factory. Housing: Die cast aluminum case and bezel, with acrylic cover. Exterior finish is coated gray to withstand 168 hour salt spray corrosion test.

Accuracy: ±2% (-HA model ±1) of FS (±3% (-HA ±1.5%) on -0, -100PA, -125PA, -10MM and ±4% (-HA ±2%) on -00, -60PA, -6MM ranges), throughout range at 70°F (21.1°C).

Pressure Limits: -20 in Hg to 15 psig† (-0.677 to 1.034 bar); MP option: 35 psig (2.41 bar); HP option: 80 psig (5.52 bar). Enclosure Rating: IP67.

Overpressure: Relief plug opens at approximately 25 psig (1.72 bar), standard gages only.

Temperature Limits: 20 to 140°F* (-6.67 to 60°C). -20°F (-28°C) with low temperature option.

Size: 4" (101.6 mm) diameter dial face. Mounting Orientation: Diaphragm in vertical position. Consult factory for other nosition orientations

Process Connections: 1/8" female NPT duplicate high and low pressure taps one pair side and one pair back.

Weight: 1 lb 2 oz (510 g), MP & HP 2 lb 2 oz (963 g).

Standard Accessories: Two 1/8" NPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adapter, and three flush mounting adapters with screws. (Mounting and snap ring retainer substituted for three adapters in MP &

Agency Approvals: Meets the technical requirements of EU Directive 2011/65/EU (RoHS II). Note: -SP models not RoHS approved.

Warranty: 5 year limited warranty.

HP gage accessories.)

Note: For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options.

*Low temperature models available as special options





A-605

Over Protection Note: See page 21 (Series 2000)



MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES Indicate Positive, Negative or Differential, Accurate within 2%

Bezel provides flange for flush mounting in panel.

Clear plastic face is highly resistant to breakage. Provides undistorted viewing of pointer and scale.

Precision litho-printed scale is accurate and easy to read.

Calibrated range spring is flat spring steel. Small amplitude of motion assures consistency and long life. It reacts to pressure on diaphragm. Live length adjustable for

Red tipped pointer of heat treated aluminum tubing is easy to see. It is rigidly mounted on the helix shaft.

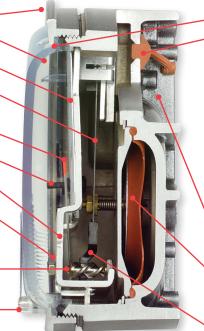
Pointer stops of molded rubber prevent pointer over-travel

"Wishbone" assembly provides mounting for helix, helix bearings and pointer shaft.

Jeweled bearings are shock-resistant mounted; provide virtually friction-free motion for helix. Motion damped with high viscosity silicone fluid.

Helix is precision made from an alloy of high magnetic permeability. Mounted in jeweled bearings, it turns freely, following the magnetic field to move the pointer across

Zero adjustment screw is conveniently located in the plastic cover, and is accessible without removing cover. O-ring seal provides pressure tightness.



O-ring seal for cover assures pressure integrity of case.

OVERPRESSURE PROTECTION

Blowout plug is comprised of a rubber plug on the rear which functions as a relief valve by unseating and venting the gage interior when over pressure reaches approximately 25 psig (1.7 bar). To provide a free path for pressure relief, there are four spacer pads which maintain 0.023" clearance when gage is surface mounted. Do not obstruct the gap created by these pads.
The blowout plug is not used on models above 180" of

water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.

The blowout plug should not be used as a system overpressure control. High supply pressures may still cause the gage to fail due to over pressurization, resulting in property damage or serious injury. Good engineering practices should be utilized to prevent your system from exceeding the ratings of any component.

Die cast aluminum case is precision made and iridite-dipped to withstand 168 hour salt spray corrosion test. Exterior finished in baked dark gray hammerloid. One case size is used for all standard pressure options, and for both surface and flush mounting.

Silicone rubber diaphragm with integrally molded O-ring is supported by front and rear plates. It is locked and sealed in position with a sealing plate and retaining ring. Diaphragm motion is restricted to prevent damage due to

Samarium Cobalt magnet mounted at one end of range spring rotates helix without mechanical linkages.

MODEL CHART										
	Range,		Range,		Range, MM		Range,		Dual Scale Air	Velocity Units
Model	Inches of Water	Model	PSI	Model	of Water	Model	kPa		For use with pi	
2000-00N†**	.05-02	2201	0-1	2000-6MM†••	0-6	2000-0.5KPA	0-0.5		·	
	025		0-2		0-10		0-0.5			
2000-0+	050	2203	0-3	2000-15MM		2000-1KPA 2000-1.5KPA				Range, in w.c./
	0-1.0	2204	0-4	2000-25MM			0-1.5 0-2			Velocity F.P.M.
2002	0-2.0		0-5	2000-30MM			0-2.5		2000-00AV+••	
2003	0-3.0	2210*	0-10	2000-50MM			0-2.5			300-2000
2004	0-4.0	2215*	0-15	2000-80MM			0-3 0-4			050/
2005	0-5.0	2220*	0-20	2000-100MM			0-4			500-2800
2006	0-6.0	2230**	0-30	2000-125MM			0-8			0-1.0/
2008	0-8.0						0-8 0-10			500-4000
2010	0-10		Range, CM	2000-200MM	0-200		0-10			0-2.0/
2012	0-12		of Water		0-250		0-15			1000-5600
2015	0-15			2000-300MM	0-300		0-20 0-25			0-5.0/
	0-20	2000-15CM	0-15	Zero Center Ra	naes	2000-25KPA 2000-30KPA				2000-8800
2025	0-25		0-20							0-10/
	0-30		0-25		5-0-5	Zero Center F				2000-12500
2040	0-40		0-50		10-0-10	2300-1KPA	.5-05			2000 12000
2050	0-50		0-80			2300-2KPA	1-0-1			
2060	0-60	2000-100CM				2300-2.5KPA				
	0-80	2000-150CM		2000-60NPA†••		2300-3KPA	1.5-0-1.5		L	
2100	0-100	2000-200CM			0-60 0-100	Dual Scale Er				
2120	0-120	2000-250CM					Range,	Range	,	
	0-150	2000-300CM	0-300		0-125	Model	in w.c.	Pa or k		
2160	0-160	Zero Center	Ranges		0-250	2000-00D†••	025	0-62 Pa	а	
	0-180	2300-4CM	2-0-2		0-300	2000-0D†•		0-125 F		
2250*	0-250		5-0-5					0-250 F		
Zava Cantan	Dannes		15-0-15		0-750	2002D		0-500 F		
Zero Center					0-1000	2003D		0-750 F		
	0.125-0-0.125			Zero Center Ra		2004D	0-4.0	0-1.0 k		
2300-0†•	.25-025							0-1.25		
2301	.5-05					2006D		0-1.5 k		
	1-0-1							0-2.0 k		
	2-0-2							0-2.5 k		
	5-0-5			2300-200PA				0-3.7 k		
	10-0-10			2300-250PA				0-5 kPa		
2330	15-0-15			2300-300PA	150-0-150			0-6.2 k	Pa	
						2050D	0-50	0-12.4		
						2060D	0-60	0-15 kF		
†These range	†These ranges calibrated for vertical scale position • Accuracy ±3% •• Accuracy ±4% *MP option standard **HP option standard									

VELOCITY AND VOLUMETRIC FLOW UNITS ACCESSORIE Scales are available on the Magnehelic's gage that read in velocity units (FPM, m/s) or volumetric flow units (SCFM, m³/s, m³/h). Stocked velocity units with dual range scales in inches w.c. and feet per minute are shown above. For other ranges contact the factory. When ordering volumetric flow scales please specify the maximum flow rate and its corresponding pressure. Example: 0.5 in w.c. = 16,000 CFM.

ACCESSORIES				
Mode	Description			
A-321 A-448 A-135 A-401 A-310				
	can then be removed to check or re-zero the gage.			

