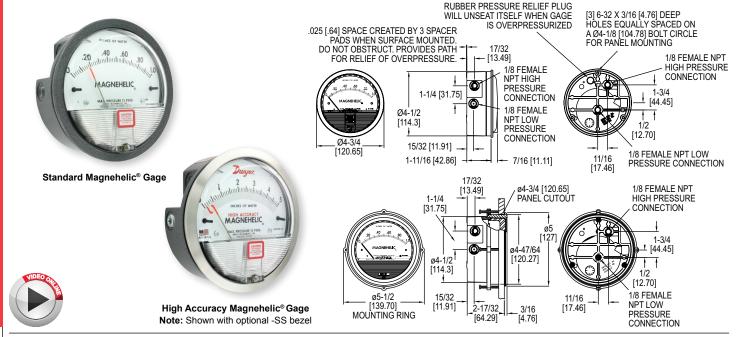


MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES Indicate Positive, Negative or Differential, Accurate within 1%



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

ACCESSOR	IES
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 & HP gage accessories.)

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

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.

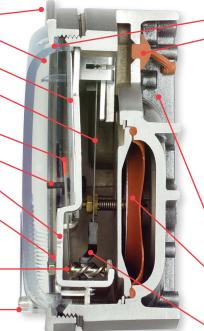
Pointer stops of molded rubber prevent pointer over-travel

"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 0-1			
2000-0+	050	2203	0-3	2000-15MM		2000-1KPA 2000-1.5KPA				Range, in w.c./
	0-1.0		0-4		10-25		0-1.5 0-2			Velocity F.P.M.
	0-2.0		0-5		10-30		0-2 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		2000-3KPA 2000-4KPA	0-3			050/
	0-5.0		0-20		10-100	2000-4KPA 2000-5KPA	0-4			500-2800
2006	0-6.0	2230**	0-30	2000-125MM			0-8 0-8			0-1.0/
2008	0-8.0				10-150		0-8 0-10			500-4000
2010	0-10		Range, CM		0-200		0-10			0-2.0/
	0-12		of Water		0-250		0-15			1000-5600
2015	0-15				0-300		0-20 0-25			0-5.0/
2020	0-20	2000-15CM	0-15	Zero Center Ra	nges	2000-25KPA 2000-30KPA				2000-8800
	0-25		0-20							0-10/
	0-30		0-25		5-0-5	Zero Center F				2000-12500
	0-40		0-50		10-0-10	2300-1KPA	.5-05			
	0-50		0-80			2300-2KPA	1-0-1			
	0-60	2000-100CM		2000-60NPA†••		2300-2.5KPA				
2080	0-80	2000-150CM			0-60	2300-3KPA	1.5-0-1.5			
	0-100	2000-200CM			0-100	Dual Scale Er				
	0-120	2000-250CM			0-100		Range,	Range	,	
	0-150	2000-300CM			0.050	Model	in w.c.	Pa or k		
2160	0-160	Zero Center	Ranges		0.200	2000-00D†••		0-62 Pa		
	0-180	2300-4CM	2-0-2		0 500	2000-0D†•		0-125 F		
2250*	0-250	2300-10CM	5-0-5		0.750	2001D		0-250 F		
Zero Center	Pangos		15-0-15		0-750	2002D		0-500 F		
	0.125-0-0.125					2003D		0-750 F		
2300-007**	0.125-0-0.125 .25-025			Zero Center Ra		2004D		0-1.0 k		
2300-0T• 2301	.25-025 .5-05					2005D		0-1.25		
						2006D		0-1.5 k		
	1-0-1 2-0-2					2008D		0-2.0 k		
						2010D		0-2.5 k		
	5-0-5			2300-200PA		2015D		0-3.7 k		
	10-0-10			2300-250PA		2020D		0-5 kPa		
2330	15-0-15			2300-300PA		2025D		0-6.2 k		
						2050D	0-50	0-12.4		
								0-15 kF		
†These range	es calibrated for ve	rtical scale pos	sition • Acc	uracy ±3% •• A	ccuracy ±4%	*MP option	standard	**HP or	otion standard	
, ,										

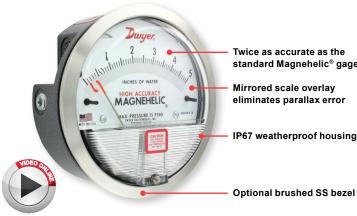
VELOCITY AND VOLUMETRIC FLOW UNITS ACCESSORIE Scales are available on the Magnehelic's gage that read in velocity units (FPM, m/s) or volumetric flow units (SCFM, m³/s, m³/h). Stocked velocity units with dual range scales in inches w.c. and feet per minute are shown above. For other ranges contact the 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.

AC	ACCESSORIES			
Мо	del	Description		
A-3 A-4 A-1 A-3	148 135 101	Safety relief valve 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface Rubber gasket for panel mounting Plastic carry case 3-way vent valves. In applications where pressure is continuous and the Magnehelic® gage is connected by metal or plastic tubing which cannot be easily removed, we suggest using Dwyer A-310A vent valves to connect gage. Pressure		
		can then be removed to check or re-zero the gage.		



Dwyer.

HIGH ACCURACY MAGNEHELIC® DIFFERENTIAL PRESSURE GAGE



Twice as accurate as the standard Magnehelic® gage

Mirrored scale overlay eliminates parallax error

IP67 weatherproof housing

6-Point Calibration **Certificate Included**

Descript machinestate out	OPTIONS -	HIGH ACCURACY MAGNEHELIC® GAGE
CENTIFICATE OF CALIBRATION	To order	
IN COUNTY TOWNS PRINT TOWNS	add suffix:	Description
The Act of	-НА	High Accuracy Magnehelic® Gage. Accuracy within 1% and weatherproof. Also includes mirrored scale overlay and a six point calibration certificate
united Victoria by grown Fadia	-SS	Corrosion resistant brushed 304 stainless steel bezel

Accuracy Specifications: See page 20 (Series 2000)

ADDITIONAL GAGE OPTIONS

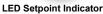






OPTIONS - OTHER OPTIONAL BEZELS			
To order add suffix:	Description		
-CB	Chrome bezel option: A chrome plated aluminum bezel for an		
	aesthetically pleasing finish when mounting on metal surfaces		
	such as control panels.		
-SB	Stainless steel bezel option: 304 stainless steel electro polished		
	Ra 16 finished bezel.		
-SS	Corrosion resistant brushed 304 stainless steel bezel		







Adjustable Signal Flag



Transparent Overlay



Mirrored Scale Overlay

-AHU2



Integrated Mounting Plate

OPTIONS - LED SETPOINT INDICATOR			
To order add suffix:	Description		
-SP	Bright red LED on right scale shows when setpoint is reached.		
	Field adjustable from gage face, unit operates on 12-24		
	VDC. Setpoint indicator option comes with medium pressure		
	(MP) bezel.		
Note: 4-13/16" hole for	or flush mounting.		
OPTIONS - ADJUSTA	ABLE SIGNAL FLAG		
To order add suffix:	Description		
-ASF	Integral with plastic gage cover. Available for most models		
	except those with medium or high pressure construction. Can be		
	ordered with gage or separate.		
OPTIONS - TRANSPA	ARENT OVERLAYS		
To order add suffix:	Description		
-G	Green (to highlight and emphasize critical pressures) Red		
-R	(to highlight and emphasize critical pressures)		
-Y	Yellow (to highlight and emphasize critical pressures)		
OPTIONS - MIRRORI	ED SCALE OVERLAY		
To order add suffix:	Description		
-M	A mirrored scale overlay is also available to assist in reducing		
	parallax error.		
OPTIONS - INTEGRA	TED MOUNTING PLATE		
To order add suffix:	Description		
-AHU1	Furnished with attached surface mounting plate		



OPTIONS - FOR HIGH STATE PRESSURE APPLICATIONS		
To order add suffix: Description		
-HP	High pressure option: for pressures to 80 psig	
-MP	Medium pressure option: for pressures to 35 psig	

PVC tubing)

Furnished with attached surface mounting plate and including A-481 installer kit (2 plastic static pressure tips and 7'of

OPTIONS	
To order add suffix:	Description
-FC	Factory calibration certificate
-LT	Low temperatures to -20°F (-28°C)
-NIST	NIST traceable calibration certificate