

Select the Series 2000 Magnehelic® Differential Pressure Gages 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 non-corrosive 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<sup>®</sup> 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 <sup>®</sup> 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 <sup>®</sup> 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 position orientations.

Process Connections: 1/8<sup>°</sup> 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-432

A-605 Over Protection Note: See page 21 (Series 2000)

Differential Pressure Gages

# Dwyer SERIES 2000 **MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES** Indicate Positive, Negative or Differential, Accurate within 1%

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 calibration.

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

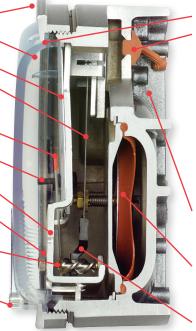
Pointer stops of molded rubber prevent pointer over-travel without damage

"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 the scale.

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 overpressures.

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

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000-100CM	0-100							2000-12000
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000-150CM	0-150	2000-30PA†••	0-30		1.5-0-1.5			
000-200CM			0-60	Dual Scale Er			\$	
000-250CM			0-00		Range, F	Range,		
000-300CM	0-300		0-125	Model	in w.c.	Pa or kF	Pa 🛛 🖉	
ero Center F	Ranges	2000-250PA	0-250					
300-4CM	2-0-2	2000-200PA	0-300			)-62 Pa		
300-10CM	5-0-5	2000-500PA	0-500	2000-0D+•	0-0.5	)-125 Pa		
	15-0-15	2000-3001 A	0-750			)-250 Pa		
			0-1000	2002D		)-500 Pa		
		Zero Center Ra		2003D	0-3.0	)-750 Pa		
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			30-0-30			)-1.5 kP		
			50-0-50			)-2.0 kP		
		2300-120PA	60-0-60			)-2.5 kP		
							а	
	10	These ranges calibrated for vertical scale position • Accuracy ±3% •• Accuracy ±4% *MP option standard **HP option standard					ion standard	
			2300-200PA 2300-250PA 2300-300PA 2300-500PA 2300-1000PA	2300-200PA 100-0-100 2300-250PA 125-0-125 2300-300PA 150-0-150 2300-500PA 250-0-250 2300-1000PA 500-0-500	2300-200PA         100-0-100         2015D           2300-250PA         125-0-125         2020D           2300-300PA         150-0-150         2025D           2300-500PA         250-0-250         2050D           2300-1000PA         500-0-500         2060D	2300-200PA         100-0-100         2015D         0-15         0           2300-250PA         125-0-125         2020D         0-20         0           2300-300PA         150-0-150         2025D         0-25         0           2300-500PA         250-0-250         205DD         0-50         0           2300-1000PA         500-0-500         2060D         0-60         0	2300-200PA         100-0-100         2015D         0-15         0-3.7 kP           2300-250PA         125-0-125         2020D         0-20         0-5 kPa           2300-300PA         150-0-150         2025D         0-25         0-6.2 kP           2300-300PA         150-0-150         2025D         0-25         0-6.2 kP           2300-300PA         250-0-250         2050D         0-50         0-12.4 k           2300-1000PA         500-0-500         2060D         0-60         0-15 kP2           I scale position         • Accuracy ±3%         •• Accuracy ±4%         *MP option standard         **HP option	2300-200PA         100-0-100         2015D         0-15         0-3.7 kPa           2300-250PA         125-0-125         2020D         0-20         0-5 kPa           2300-300PA         150-0-150         2025D         0-25         0-6.2 kPa           2300-500PA         250-0-250         2050D         0-50         0-12.4 kPa           2300-1000PA         500-0-500         2060D         0-60         0-15 kPa

Scales are available on the Magnehelic® gage that read in velocity units (FPM, m/s) or volumetric flow units (SCFM, m<sup>3</sup>/s, m<sup>3</sup>/h). Stocked velocity units with dual range scales blocked 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.

Model Description

- A-321 A-448
- Safety relief valve 3-piece magnet kit for mounting Magnehelic<sup>®</sup> gage directly to magnetic surface Rubber gasket for panel mounting A-135
  - Plastic carry case

A-401 A-310A 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

A-310A





Twice as accurate as the standard Magnehelic® gage

Mirrored scale overlay eliminates parallax error

IP67 weatherproof housing

**Optional brushed SS bezel** 

	<b>OPTIONS - HIGH ACCURACY MAGNEHELIC® GAGE</b>			
CENTIFICATE OF CALEBRATION	To order			
ARCOR CUENTRAL ARCOR COUNT ARCOR COUNT ARCOR COUNT ROUMENT COUNT ARCAN ARCON THE ROUMENT COUNT ARCAN ARCON THE ROUMENT COUNT ARCAN A	add suffix:	Description		
Deve (1 <sup>rd</sup> April 2015) Deve (1 <sup>rd</sup> April 201	-HA	High Accuracy Magnehelic® Gage. Accuracy		
Image: 100 million         100 million           Image: 100 million         700 million         100 million           Image: 100 million         100 million         100 million		within 1% and weatherproof. Also includes mirrored scale overlay and a six point calibration certificate		
Consultant (Fir Hand Southern 1997) Mill S Andre Managemenn (M) Mill S Veffer ( 17 Andre Fisher 	-SS	Corrosion resistant brushed 304 stainless steel bezel		

certificate included

Accuracy Specifications: See page 20 (Series 2000)

# **ADDITIONAL GAGE OPTIONS**









Adjustable signal flag

LED set point indicator



Transparent overlay

Mirrored scale overlay



Integrated mounting plate



	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			

<b>OPTIONS - LED SET</b>	POINT INDICATOR			
To order add suffix:	Description			
-SP	Bright red LED on right scale shows when set point is reached.			
	Field adjustable from gage face, unit operates on 12-24			
	VDC. Set point indicator option comes with medium pressure			
	(MP) bezel.			
Note: 4-13/16" hole for flush mounting.				
<b>OPTIONS - ADJUST</b>	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 - TRANSPARENT OVERLAYS				
To order add suffix:	Description			
-G	Green (to highlight and emphasize critical pressures)			
-R	Red (to highlight and emphasize critical pressures)			
-Y	Yellow (to highlight and emphasize critical pressures)			
OPTIONS - MIRRORED SCALE OVERLAY				
To order add suffix:	Description			
-M	A mirrored scale overlay is also available to assist in reducing			
	parallax error.			
OPTIONS - INTEGRATED MOUNTING PLATE				
To order add suffix:	Description			
-AHU1	Furnished with attached surface mounting plate			
-AHU2	Furnished with attached surface mounting plate and including			
	A-481 installer kit (2 plastic static pressure tips and 7'of			
	PVC tubing)			

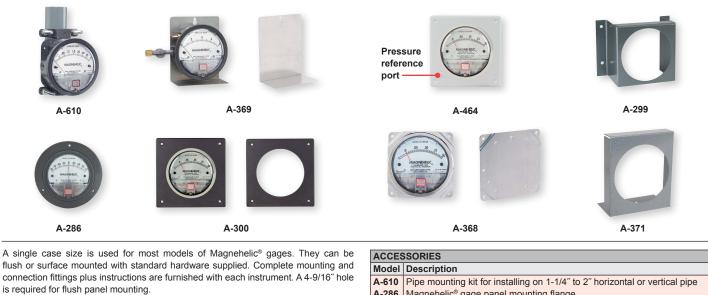
OPTIONS - FOR HIGH STATE PRESSURE APPLICATIONS			
To order add suffix:	Description		
-HP	High pressure option: for pressures to 80 psig		
-MP	Medium pressure option: for pressures to 35 psig		

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

PRESSURE



# MAGNEHELIC<sup>®</sup> GAGE MOUNTING ACCESSORIES



Flush mounting is easily accomplished with the new A-300 Flush Mounting bracket. This bracket provides a solution to quickly and conveniently flush mount the Magnehelic<sup>®</sup> gage. The A-300 is ideal for mounting the Magnehelic<sup>®</sup> gage on control panel doors.

The A-368 is a simple bracket for quickly surface mounting the Magnehelic<sup>®</sup> gage. After securing the Magnehelic<sup>®</sup> gage to the A-368 bracket, mount the bracket on any flat surface.

The A-369 allows the Magnehelic<sup>®</sup> gage to be easily carried to locations where pressure readings need to be taken. The A-369 can stand on its own or hang on a nail or hook.

4-9/16" hole	A-610	Pipe mounting kit for installing on 1-1/4" to 2" horizontal or vertical pip
	A-286	Magnehelic <sup>®</sup> gage panel mounting flange
nting bracket.	A-369	Stand-hang bracket, aluminum, for Magnehelic <sup>®</sup> gage
n mount the	A-300	Flush mounting bracket
ge on control	A-464	Flush mount kit for Magnehelic <sup>®</sup> gage
	A-368	Surface mounting plate, aluminum, for Magnehelic <sup>®</sup> gage
ehelic <sup>®</sup> gage.	A-299	Mounting bracket, flush mount for Magnehelic <sup>®</sup> gage, bracket is then
acket on any		surface mounted, steel with gray hammerloid epoxy finish
	A-371	Surface mounting bracket, use with medium pressure (-MP) or high
ations where		pressure (-HP) models only
or hang on a		

# SERIES A-320



The **Series A-320 Instrument Enclosures** protect instruments in all applications. The enclosures, available in plastic and stainless steel, fit a variety of gages including the Series 605 transmitter, DM-2000, 3000MR/MRS and DH3. All models include silicone tubing, Banjo fittings, and threaded pressure connections pre-installed. The threaded pressure connections allow the user to easily change the connection type through the use of fittings or adapters. This modification can be implemented to allow connection to a wide variety of plastic or metal tubing.

MODEL CHART				
Model	Description			
A-320-A1*	2000 Magnehelic <sup>®</sup> gage, DM-2000 differential pressure transmitter			
A-320-B1**	3000MR/MRS Photohelic <sup>®</sup> switch/gage, Series 605 Magnehelic <sup>®</sup>			
	differential pressure transmitter, DH3 Digihelic® pressure controller,			
	2000 Magnehelic <sup>®</sup> gage with medium and high pressure options			
A-320-BC	2000 Magnehelic <sup>®</sup> gage, DM-1000 DigiMag <sup>®</sup> digital differential			
	pressure gage, DM-2000 differential pressure transmitter, instruments			
	with backwards compatible bezel option			
A-320-A-SS	2000 Magnehelic <sup>®</sup> gage			
A-320-B-SS	2000 Magnehelic <sup>®</sup> gage, DM-2000 differential pressure transmitter			
*DM-2000 mi	*DM-2000 must be mounted horizontally in A-320-A1 enclosure.			
**For DH3 to	**For DH3 to fit on A-320-B1 the casing on the electrical plug must be removed.			

### SPECIFICATIONS

Housing Material: ABS plastic or 304 SS. Process Connection: 1/8" female NPT (-SS models: 1/8" BSPT).

Enclosure Rating: Plastic models: IP66.

Weight: A-320-A1: 1.1 lb (0.5 kg); A-320-B1: 1.4 lb (0.65 kg); A-320-BC: 1.4 lb (0.65 kg); A-320-A-SS: 2.3 lb (1.05kg); A-320-B-SS: 3.0 lb (1.35 kg).

ACCESSORIES				
Model	Description			
A-339-SS	1/8" male BSPT to 3/16" hose barb			

Differential Pressure Gages