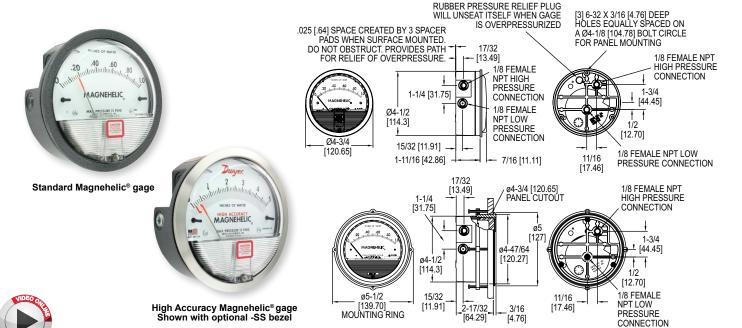
MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES Indicate Positive, Negative or Differential, Accurate within 1%

CALIBRATION SERVICES AVAILABLE





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

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.

BENEFITS/FEATURES

- 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 long-service 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				



A-432



A-605

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.

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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

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" female NPT duplicate high and low pressure taps - one

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 adaptor, and three flush mounting adapters with screws. (Mounting and snap ring retainer substituted for three adapters in MP & HP

gage accessories.)

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

*Low temperature models available as special options

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

USA: California Proposition 65

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Over Protection Note: See page 21 (Series 2000)

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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.

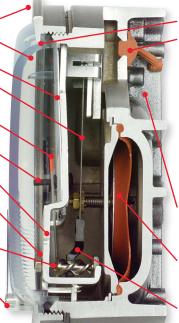
Pointer stops of molded rubber prevent pointer over-travel without damage.

"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

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.

MODEL CHA	DT								
	Range,		I		Range,				
	Inches of		Range,		MM of		Range,	Dual Scale Air Velocity Units	
Model	Water	Model	PSI	Model	Water	Model	kPa	For use with pitot tube	
2000-00N†••	.05-02	2201	0-1	2000-6MM†••	0-6	2000-0.5KPA	0-0.5		Range, in w.c./
	025	2202	0-2	2000-10MM+•	0-10		0-1	Model	Velocity F.P.M.
	050	2203	0-3		0-15	2000-1.5KPA	0-1.5		025/300-2000
	0-1.0	2204	0-4	2000-25MM	0-25		0-2	2000-0AV+	050/500-2800
	0-2.0	2205	0-5		0-30	2000-2.5KPA		2001AV .	0-1.0/500-4000
	0-3.0	2210*	0-10	2000-50MM	0-50				0-2.0/1000-5600
	0-4.0	2215*	0-15	2000-80MM	0-80	2000-4KPA			0-5.0/2000-8800
	0-5.0 0-6.0	2220* 2230**	0-20 0-30	2000-100MM 2000-125MM	0-100 0-125	2000-5KPA	0-5 0-8	2010AV	0-10/2000-1250
	0-8.0	2230***		2000-125MM	0-125		0-6 0-10		
	0-6.0 0-10		Range, CM of		0-150	2000-10KPA 2000-15KPA	0-10 0-15		
	0-10	Model	Water	2000-250MM	0-250		0-13		
			0-15	2000-200MM	0-300		0-25		
	0-20		0-13	2000 000111111	0 000		0-30		
	0-25		0-25						
	0-30		0-50						
	0-40			Zero Center Ranges Zero Center F		Ranges			
	0-50	2000-100CM		2300-6MM†••	3-0-3	2300-1KPA	.5-05		
	0-60	2000-150CM	0-150		5-0-5	2300-2KPA	1-0-1		
	0-80	2000-200CM		2300-20MM†•	10-0-10	2300-2.5KPA			
	0-100	2000-250CM				2300-3KPA	1.5-0-1.5		
	0-120	2000-300CM	0-300	Model	Range, Pa				
	0-150 0-160			2000-60NPA†••					
	0-180				0-30	Dual Scale Er	English/Metric Models		
	0-160		2-0-2		0-60		Range.	Range,	
2200	0 200		5-0-5		0-100	Model	in w.c.	Pa or kPa	
7 0	Danas	2300-30CM	15-0-15	2000-125PA†• 2000-250PA	0-125 0-250	2000-00D†••		0-62 Pa	
Zero Center					0-250			0-02 Fa 0-125 Pa	
2300-00†•• 2300-0†•	0.125-0-0.125 .25-025			2000-500PA	0-500			0-250 Pa	
2300-0 T • 2301	.25-025 .5-05				0-750	2002D		0-500 Pa	
2302	1-0-1				0-1000	2003D		0-750 Pa	
	2-0-2			Zero Center Ra		2004D		0-1.0 kPa	
	5-0-5				Range, Pa	2005D		0-1.25 kPa	
2320	10-0-10			2300-60PA†••	30-0-30	2006D		0-1.5 kPa	
2330	15-0-15			2300-100PA+•	50-0-50	2008D		0-2.0 kPa	
				2300-120PA	60-0-60	2010D		0-2.5 kPa	
				2300-200PA	100-0-100	2015D		0-3.7 kPa	
				2300-250PA	125-0-125	2020D		0-5 kPa	
				2300-300PA	150-0-150			0-6.2 kPa 0-12.4 kPa	
					250-0-250	2050D 2060D		0-12.4 kPa 0-15 kPa	
				2300-1000PA	500-0-500	20000	0-00	0-15 KFa	

†These ranges calibrated for vertical scale position. • Accuracy ±3%. •• Accuracy ±4%. *MP option standard. **HP option standard. **ACCESSORIES** A-321 Safety relief valve A-401 A-448 Plastic carry case 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface



USA: California Proposition 65

AWARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

VELOCITY AND VOLUMETRIC FLOW UNITS

Scales are available on the Magnehelic® 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