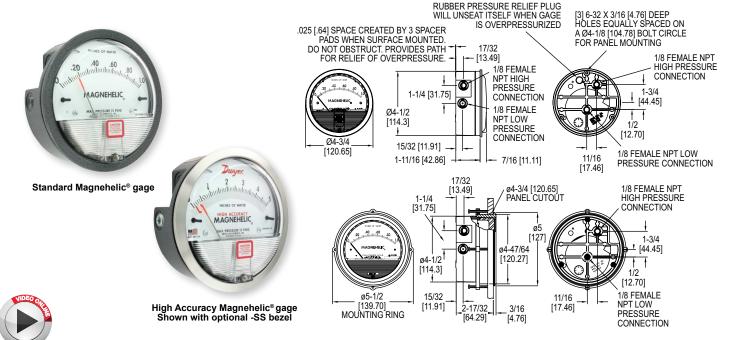
Dwyer. **SERIES 2000 MAGNEHELIC® DIFFERENTIAL PRESSURE GAGES** Indicate Positive, Negative or Differential, Accurate within 1%



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 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.

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
	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-003C	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.

Wetted Materias: 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

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 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.

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.

Differential Pressure Gages

RESSURE

Differential Pressure Gages

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

CALIBRATION SERVICES AVAILABLE

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 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.

MODEL CHA	F				-	-			
	Range, Inches of Water	Model	Range, PSI	Model	Range, MM of Water	Model	Range, kPa	Dual Scale Air For use with pi	Velocity Units
2000-00N+** 2000-00+* 2000-0+* 2001 2002 2003 2004 2005 2006 2008 2006 2008 2015 2015 20215 2025 2020 2025 2020	Vale 0.55-02 025 050 0-1.0 0-2.0 0-3.0 0-4.0 0-4.0 0-5.0 0-6.0 0-6.0 0-8.0 0-10 0-12 0-15 0-12 0-15 0-20 0-25 0-30 0-40 0-40	2201 2202 2203 2204 2210* 2215* 2220* 2230** <u>Model</u> 2000-15CM 2000-20CM 2000-20CM	0-1 0-2 0-3 0-4 0-5 0-10 0-15 0-20 0-30 Range, CM of Water 0-15 0-20 0-25 0-50	2000-6MM†** 2000-10MM†* 2000-25MM 2000-25MM 2000-30MM 2000-30MM 2000-80MM 2000-100MM 2000-125MM 2000-125MM 2000-200MM 2000-200MM	0-6 0-10 0-15 0-25 0-30 0-50 0-80 0-100 0-125 0-150 0-200 0-250 0-300	2000-0.5KPA 2000-1KPA 2000-1.5KPA 2000-2KPA 2000-2KPA 2000-3KPA 2000-3KPA 2000-5KPA 2000-5KPA 2000-10KPA 2000-15KPA 2000-25KPA 2000-25KPA	0-0.5 0-1 0-2 0-2 0-2.5 0-3 0-4 0-5 0-8 0-10 0-15 0-20 0-25 0-30	Model 2000-00AV†** 2000-0AV†* 2001AV 2002AV 2002AV 2005AV 2010AV	Range, in w.c./ Velocity F.P.M. 025/300-2000 050/500-2800 0-1.0/500-4000 0-2.0/1000-5600 0-5.0/2000-8800 0-10/2000-12500
2050 2060 2080 2100 2120 2150	0-50 0-60 0-80 0-100 0-120 0-150	2000-80CM 2000-100CM 2000-150CM 2000-200CM 2000-250CM 2000-300CM	0-150 0-200 0-250	Zero Center Ra 2300-6MM†•• 2300-10MM†• 2300-20MM†• Model 2000-60NPA†••	3-0-3 5-0-5 10-0-10 Range, Pa	Zero Center F 2300-1KPA 2300-2KPA 2300-2.5KPA 2300-3KPA	.5-05 1-0-1		
2180*	0-160 0-180 0-250	2300-10CM	Ranges 2-0-2 5-0-5 15-0-15	2000-30PA+•• 2000-60PA+•• 2000-100PA+•	0-30 0-60 0-100 0-125	Dual Scale Er Model	Range, in w.c.	Range, Pa or kPa	
Zero Center 2300-00†•• 2300-0†• 2301 2302	0.125-0-0.125 .25-025 .5-05 1-0-1			2000-250PA 2000-300PA 2000-500PA 2000-750PA 2000-1000PA	0-250 0-300 0-500 0-750 0-1000	2000-00D†•• 2000-0D†• 2001D 2002D 2003D	025 0-0.5 0-1.0 0-2.0 0-3.0	0-62 Pa 0-125 Pa 0-250 Pa 0-500 Pa 0-750 Pa	
2304 2310 2320 2330	2-0-2 5-0-5 10-0-10 15-0-15			Zero Center Ra Model 2300-60PA+•• 2300-100PA+ 2300-120PA 2300-250PA 2300-250PA 2300-300PA 2300-500PA	Range, Pa 30-0-30 50-0-50 60-0-60 100-0-100 125-0-125 150-0-150 250-0-250	2006D 2008D 2010D 2015D 2020D 2025D 2025D	0-4.0 0-5.0 0-6.0 0-8.0 0-10 0-15 0-20 0-25 0-50	0-1.0 kPa 0-1.25 kPa 0-1.5 kPa 0-2.0 kPa 0-2.5 kPa 0-3.7 kPa 0-5 kPa 0-6.2 kPa 0-6.2 kPa 0-12.4 kPa	
These range		r vertical scale	position		500-0-500	2060D cy ±4%. *MP op	0-60 ption standar	0-15 kPa d. **HP option s	standard.
A-135 Rub A-310A 3-wa conr A-3 ² A-321 Safe	nected by meta	In applications I or plastic tub	s where ing whic	pressure is contir h cannot be easi ssure can then be	ly removed.	we suggest us	ing Dwyer	A-310A	USA: California Pr WARNING: This p including Lead, wf

OCITY AND UMETRIC FLOW UNITS

es are available on the nehelic® gage that read locity units (FPM, m/s) or netric flow units (SCFM, m³/h).

e scales in inches w.c. eet per minute are shown e. For other ranges contact ctory.

n ordering volumetric scales please specify naximum flow rate and its esponding pressure. **nple:** 0.5 in w.c. = 16,000

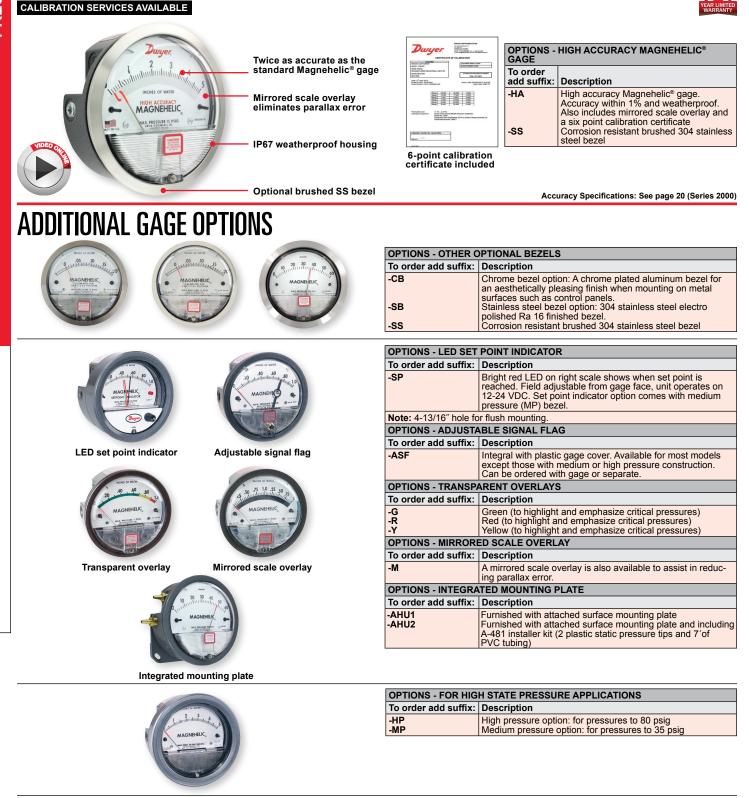
n 65

an expose you to chemicals nown to the State of California to fects or other reproductive harm. www.P65Warnings.ca.gov.

PRESSURE

IIGH ACCURACY MAGNEHELIC® DIFFERENTIAL PRESSURE GAGE





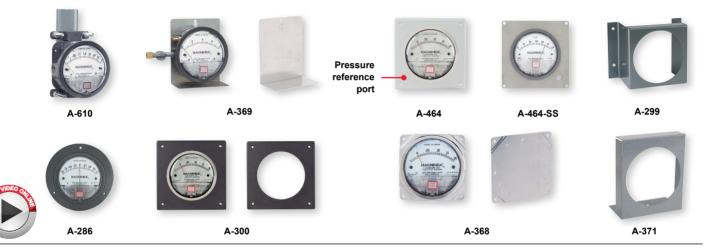
OPTIONS					
To order add suffix:	Description				
-LT	Factory calibration certificate Low temperatures to -20°F (-28°C) NIST traceable calibration certificate				

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.



MAGNEHELIC[®] GAGE MOUNTING ACCESSORIES



A single case size is used for most models of Magnehelic[®] gages. They can be flush or surface mounted with standard hardware supplied. Complete mounting and connection fittings plus instructions are furnished with each instrument. A 4-9/16" hole is required for flush panel mounting.

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[®] gage. The A-300 is ideal for mounting the Magnehelic[®] gage on control panel doors.

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

The A-369 allows the Magnehelic[®] 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.

ACCESSORIES				
Model	Description			
A-286	Magnehelic [®] gage panel mounting flange			
A-299	Mounting bracket, flush mount for Magnehelic [®] gage, bracket is then			
	surface mounted, steel with gray hammerloid epoxy finish			
A-300	Flush mounting bracket			
A-368	Surface mounting plate, aluminum, for Magnehelic [®] gage			
A-369	Stand-hang bracket, aluminum, for Magnehelic [®] gage			
A-371	Surface mounting bracket, use with medium pressure (-MP) or high			
	pressure (-HP) models only			
A-464-SS	Stainless steel flush mount kit for Magnehelic [®] gage			
A-464	Flush mount kit for Magnehelic [®] gage			
A-610	Pipe mounting kit for installing on 1-1/4" to 2" horizontal or vertical pipe			