

Series 2000

TRANSCAT Visit us at Transcat.com! Stranspecter IV 14624 // Call 1.800.800.501 Magnehelic ® Differential Pressure Gages Indicate Positive Nogative or Differential Accurate within 2%

Indicate Positive, Negative or Differential, Accurate within 2%



Select the Dwyer® Magnehelic® gage for high accuracy – guaranteed within 2% of full scale – and for the wide choice of 81 models available to suit your needs precisely. Using Dwyer's simple, frictionless Magnehelic® gage movement, it quickly indicates low air or non-corrosive gas pressures – either positive, negative (vacuum) or differential. The design resists shock, vibration and over-pressures. No manometer fluid to evaporate, freeze or cause toxic or leveling problems. It's inexpensive, too.

The Magnehelic[®] gage is the industry standard to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems. It also checks gas-air ratio controls and automatic valves, and monitors blood and respiratory pressures in medical care equipment.

Note: May be used with hydrogen. Order a Buna-N diaphragm. Pressures must be less than 35 psi.



Mounting

A single case size is used for most models of Magnehelic[®] gages. They can be flush or surface mounted with standard hardware supplied. With the optional **A-610** Pipe Mounting Kit they may be conveniently installed on horizontal or vertical 1-1/4" - 2" pipe. Although calibrated for vertical position, many ranges above 1" may be used at any angle by simply re-zeroing. However, for maximum accuracy, they must be calibrated in the same position in which they are used. These characteristics make Magnehelic[®] gages ideal for both stationary and portable applications. A 4-9/16" hole is required for flush panel mounting. Complete mounting and connection fittings plus instructions are furnished with each instrument.

Flush, Surface or

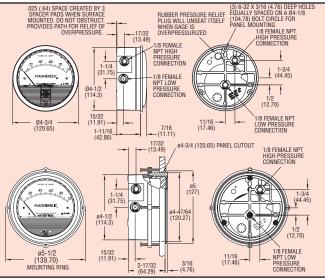
Pipe Mounted

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.

High and Medium Pressure Models

Installation is similar to standard gages except that a 4-13/16" hole is needed for flush mounting. The medium pressure construction is rated for internal pressures up to 35 psig and the high pressure up to 80 psig. Available for all models. Because of larger case, the medium pressure and high pressure models will not fit in a portable case size. Installation of the A-321 safety relief valve on standard Magnehelic[®] gages often provides adequate protection against infrequent overpressure. ① See Note.



SPECIFICATIONS

Service: Air and non-combustible, compatible gases (natural gas option available). 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% of full scale (±3% on - 0, -100 Pa, -125 Pa, 10MM and ±4% on - 00, -60 Pa, -6MM ranges), throughout range at 70°F (21.1°C).

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

Overpressure: Relief plug opens at approximately 25 psig (1.72 bar), standard gages only. See Overpressure Protection Note on next page.

Temperature Limits: 20 to 140°F* (-6.67 to 60°C).

Size: 4" (101.6 mm) diameter dial face.

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.

 $\mbox{Process Connections: } 1/8^{\prime\prime}$ 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 3 adapters in MP & HP gage accessories.)

*Low temperature models available as special option.

†For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options at lower left.

OPTIONS AND ACCESSORIES



Transparent Overlays

Furnished in red and green to highlight and emphasize critical pressures.

Adjustable Signal Flag

Integral with plastic gage cover. Available for most models except those with medium or high pressure construction. Can be ordered with gage or separate. Add suffix **-ASF** to end of gage model number

LED Setpoint Indicator



Bright red LED on right of scale shows when setpoint is reached. Field adjustable from gage face, unit operates on 12-24 VDC. Requires MP or HP style cover and bezel. (i) See Note.

Add suffix -SP to end of gage model number

Quality design and construction features

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.

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

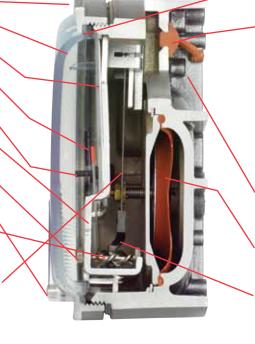
"Wishbone" assembly provides mounting for helix, helix bearings and pointer shaft.

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

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

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.

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.



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 inch 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 inches 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 or 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.

Series 2000 Magnehelic[®] Gage — Models and Ranges Page VI shows examples of special models built for OEM customers. For special scales furnished in ounces per square inch, inches of mercury, metric units, square root scales volumetric flow etc. contact the factory

Range Inches Model Range PSI Model Range MM Range, of Water Range, for use with plot tube 2000-00Nt+* 0-50-2 2201 0-1 2000-6KPA 0-0.5 2000-05KPA 0-0.5 2000-05KPA 0-1 Range in 2000-00** 0-25 2202 0-2 2000-10KM↑* 0-16 2000-15KPA 0-1.5 Model Range in 2000-1 0-1.0 2204 0-4 2000-25KM 0-15 2000-15KPA 0-2.5 2001 0-1.0 2204 0-4 2000-25KM 0-2.5 2000-25KPA 0-2.5 2002 0-2.0 2205 0-5 2000-30KPA 0-3.0 2000-4KPA 0-4 2000-40V†* 0-50/500 2004 0-4.0 2215* 0-15 2000-10MM 0-100 2000-10KPA 0-8 2001/4V 0-10/500 2006 0-6.0 2200*20CM 0-20 2000-10KM 0-125 2000-30KPA 0-8 2001/4V 0-10/500 2010 0-10 <td< th=""><th colspan="2">Dual Scale Air Velocity Units</th><th></th><th></th><th></th><th></th><th></th><th>laotory.</th><th>c flow, etc., contact the f</th><th></th></td<>	Dual Scale Air Velocity Units							laotory.	c flow, etc., contact the f	
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2050 0-50 2000-80 CM 0-80 Model Range, Pa 2300-2.5KPA 1.25-0-1.25 2060 0-60 2000-100 CM 0-100 2000-60NPA†** 10-0-50 2300-3KPA 1.5-0-1.5 1.5-0-1.5 2080 0-80 2000-150 CM 0-100 2000-60NPA†** 0-60 Dual Scale English/Metric Models 2100 0-120 2000-200 CM 0-200 2000-100PA†* 0-100 Range, Range, 2150 0-150 2000-300 CM 0-250 2000-125 PA†* 0-125 Model In. W.C. Pa or kPa 2160 0-160 Zero Center Ranges 2000-300 PA 0-300 2000-300 PA 0-300 2000-00 P** 0-0.5 0-125 Pa 2180* 0-180 Zero Center Ranges 2000-300 PA 0-500 2001 D 0-1.0 0-250 Pa 2250* 0-250 Z300-40CM 5-0-5 2000-750 PA 0-750 20002 D 0-2.0 0-500 Pa 2300-00†** 0.125-0-0.125 Z300-30CM 15-0-15 Zero Cent			1-0-1	2300-2KPA						
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2080 0-80 2000-150CM 0-150 2000-100CM 0-150 2000-100PA1+ 0-60 Dual Scale English/Metric Models 2100 0-120 2000-250CM 0-200 2000-100PA1+ 0-100 Range, Range, <td< th=""><th></th><th></th><th>1.5-0-1.5</th><th>2300-3KPA</th><th></th><th></th><th></th><th></th><th>0-60</th><th>2060</th></td<>			1.5-0-1.5	2300-3KPA					0-60	2060
2100 0-100 2000-200 CM 0-200 2000-100 PA†* 0-100 Range,		\$	alish/Metric Mode	Dual Scale En					0-80	2080
2120 0-120 2000-250 CM 0-250 2000-125 PA+ 0-125 Model In. W.C. Pa or kPa 2150 0-150 2000-300 CM 0-300 2000-250 PA 0-250 2000-000 P+* 0-255 0-62 Pa 2180* 0-180 Zero Center Ranges 2000-300 PA 0-300 2000-300 PA 0-300 2000-00 P+* 0-0.5 0-125 Pa 2250* 0-250 2300-4CM 2-0-2 2000-500 PA 0-500 2001 D 0-1.0 0-250 Pa 2300-00 +** 0.125-0-0.125 2300-30CM 5-0-5 2000-750 PA 0-750 2002D 0-2.0 0-500 Pa 2300-00 +** 0.125-0-0.125 2300-30CM 15-0-15 Zero Center Ranges 2004D 0-4.0 0-1.0 kPa 2300-01 +* .25-0-5 1 These ranges calibrated for vertical scale position. 1 These ranges calibrated for vertical scale position. 300-30 2005D 0-5.0 0-1.25 kPa 2302 1-0-1 10-1 50-50 2008D 0-8.0 0-2.0 kPa				Dual Obalo El					0-100	2100
2150 0-150 2000-300 CM 0-300 2000-250 PA 0-250 2000-OD1+* 0-0.5 0-62 Pa 2160 0-160 Zero Center Ranges 2000-300 PA 0-300 2000-300 PA 0-300 2000-OD1+* 0-0.5 0-125 Pa 2180* 0-250 2300-4CM 2-0-2 2000-500 PA 0-500 2001 D 0-1.0 0-250 Pa 2250* 0-250 2300-10CM 5-0-5 2000-750 PA 0-750 2002D 0-2.0 0-500 Pa 2300-00+* 0.125-0-0.125 2300-30CM 15-0-15 2000-100 PA 0-100 x 10 2003D 0-3.0 0-750 Pa 2300-00+* 0.25-0.25 2300-30CM 15-0-15 Zero Center Ranges 2004D 0-4.0 0-1.0 kPa 2301 .5-0-5 1These ranges calibrated for vertical scale position. 15-0-50 2005D 0-5.0 0-1.25 kPa 2302 1-0-1 10-1 for vertical scale position. 2300-10PA+* 50-0-50 2008D 0-8.0 0-2.0 kPa				Model					0-120	2120
2160 0-160 Zero Center Ranges 2000-300PA 0-300 2000-OD†* 0-0.5 0-125 Pa 2180* 0-180 2300-4CM 2-0-2 2000-300PA 0-500 2001D 0-1.0 0-250 Pa 2250* 0-250 2300-10CM 5-0-5 2000-500PA 0-750 2002D 0-2.0 0-500 Pa 2300-001+• 0.125-0-0.125 2300-30CM 15-0-15 Zero Center Ranges 2000-1000PA 0-100 x 10 2003D 0-3.0 0-750 Pa 2300-01+• 0.125-025 2300-30CM 15-0-15 Zero Center Ranges 2004D 0-4.0 0-1.0 kPa 2301 .5-05 †These ranges calibrated for vertical scale position. †These ranges calibrated for vertical scale position. 3200-300 PA+• 30-30 2006D 0-6.0 0-1.5 kPa 2302 1-0-1 for vertical scale position. 2300-100PA+• 50-0-50 2008D 0-8.0 0-2.0 kPa									0-150	
2180* 0-180 200-4CM 2-0-2 200-500PA 0-500 2001D 0-1.0 0-250 Pa 2250* 0-250 2300-10CM 5-0-5 2000-750PA 0-750 2002D 0-2.0 0-500 Pa 2300-00†•* 0.125-0-0.125 2300-30CM 15-0-15 2ero Center Ranges 2000-100PA 0-100 x 10 2003D 0-3.0 0-750 Pa 2300-01†•* 0.25-025 25055 †These ranges calibrated for vertical scale position. for vertical scale position. 300-30 2005D 0-5.0 0-1.5 kPa 2302 1-0-1 for vertical scale position. 3200-100PA†• 30-0-30 2008D 0-8.0 0-2.0 kPa									0-160	2160
2250* 0-250 2300-4CM 2-0-2 2000-750PA 0-750 2002 0-2.0 0-500 Pa Zero Center Ranges 2300-30CM 5-0-5 2000-750PA 0-750 2003D 0-3.0 0-750 Pa 2300-00†•• 0.125-0-0.125 2300-30CM 15-0-15 Zero Center Ranges 2004D 0-4.0 0-1.0 kPa 2300-01•• .25-05 †These ranges calibrated for vertical scale position. These ranges calibrated for vertical scale position. 300-30 2005D 0-5.0 0-1.25 kPa 2302 1-0-1 for vertical scale position. 2300-100PAt 50-0-50 2008D 0-8.0 0-2.0 kPa							<u>v</u>		0-180	
Zero Center Ranges 2300-10CM 2300-30CM 5-0-5 15-0-15 2000-1000PA 2000-1000PA 0-100 x 10 0-100 x 10 203D 0-3.0 0-750 Pa 2300-00†• 0.125-0-0.125 2300-01• 0.25-0.25 200-100PA 0-100 x 10 203D 0-4.0 0-1.0 kPa 2301 .5-0-5 †These ranges calibrated for vertical scale position. †These ranges calibrated 2300-100PA†• 300-30 2005D 0-5.0 0-1.25 kPa 2302 1-0-1 for vertical scale position. 2300-100PA†• 50-0-50 2008D 0-8.0 0-2.0 kPa									0-250	
Z300-00†•• 0.125-0-0.125 Z300-30CM 15-0-15 Zero Center Ranges 2004D 0-4.0 0-1.0 kPa 2300-01• .25-025 +These ranges calibrated Model Range, Pa 2005D 0-5.0 0-1.25 kPa 2301 .5-05 +These ranges calibrated 2300-60PA†•• 30-0-30 2006D 0-6.0 0-1.5 kPa 2302 1-0-1 for vertical scale position. 2300-100PA†• 50-0-50 2008D 0-8.0 0-2.0 kPa										
Model Range, Pa 2005D 0-5.0 0-1.25 kPa 2301 .5-05 †These ranges calibrated 2300-60PA†•• 30-0-30 2006D 0-6.0 0-1.5 kPa 2302 1-0-1 for vertical scale position. 2300-100PA†• 50-0-50 2008D 0-8.0 0-2.0 kPa							15-0-15	2300-30CM	U	
2301 .5-05 †These ranges calibrated for vertical scale position. 230-60PA†•• 30-0-30 2006D 0-6.0 0-1.5 kPa 2302 1-0-1 for vertical scale position. 2300-100PA†• 50-0-50 2008D 0-8.0 0-2.0 kPa										
2302 1-0-1 for vertical scale position. 2309-100PA†• 50-0-50 2008D 0-8.0 0-2.0 kPa							and collibrated	+These rer		
		0-2.5 kPa		2008D	60-0-60	2300-120PA	ier ferdeale peedleri			
		0-2.5 kPa 0-3.7 kPa								
	а	0-5.7 KPa								
	-	0-5 kPa 0-6.2 kPa								
	0-12.4 kPa						standard	**HP option	15-0-15	2330
		0-12.4 kPa 0-15 kPa								
2300-1000PA 500-0-500 2060D 0-60 0-15 kPa ACCESSORIES OPTIONS — To order, add suffix: LE, 200 OPTIONS — To order, add suffix: LE, 200 OPTIONS — To order, add suffix: LE, 200	U-15 KPa		0-60	20000	000-0-500	2300-1000PA				

ACCESSORIES A-299, Surface Mounting Bracket A-300, Flat Flush Mounting Bracket

A-310A, 3-Way Vent Valve A-321, Safety Relief Valve A-432, Portable Kit

A-448, 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface

A-605, Air Filter Kit A-610, Pipe Mount Kit



OPTIONS — To order, add suffix: I.E. 2001-ASF

ASF, Adjustable Signal Flag **HP**, High Pressure Option

LT, Low Temperatures to -20°F

MP, Med. Pressure Option SP, Setpoint Indicator

Scale Overlays, Red, Green, Mirrored or Combination, Specify Locations