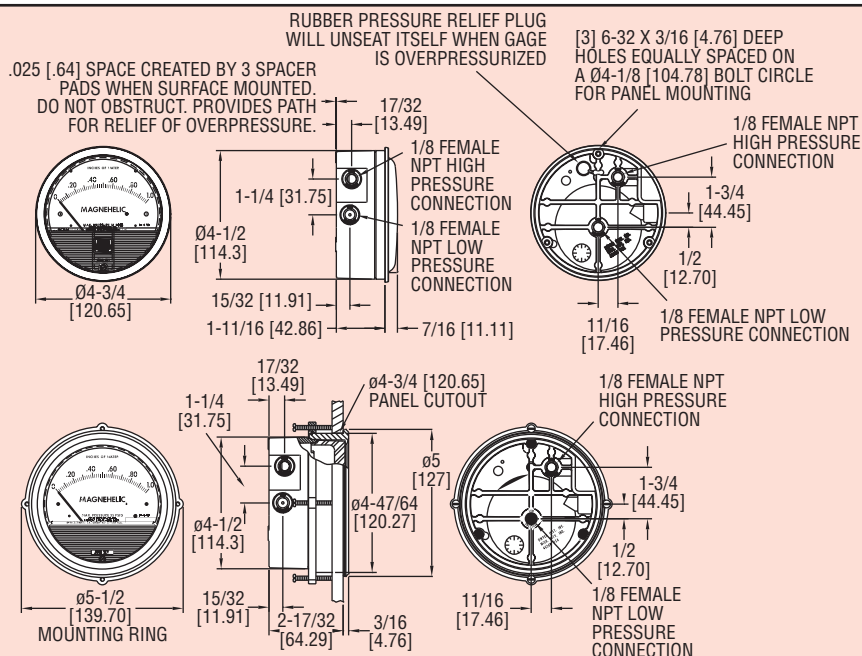




Indicate Positive, Negative or Differential, Accurate within 2%



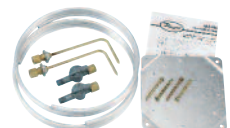
Scan here
to watch
product video



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.

A single case size is used for most models of Magnehelic® gages. They can be flush or surface mounted with standard hardware supplied. 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. **1**

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, standhanger bracket and terminal tube with holder . . . **\$48.00**



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 **36.25**

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 **22.25**

Agency Approval: RoHS. **Note:** -SP models not RoHS approved.

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



Flush, Surface, Integrated Plate or Pipe Mounted



Enclosure Mounted



Series
2000

Magnehelic® Gage Models & Ranges

PRESSURE

Differential Pressure Gages

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.

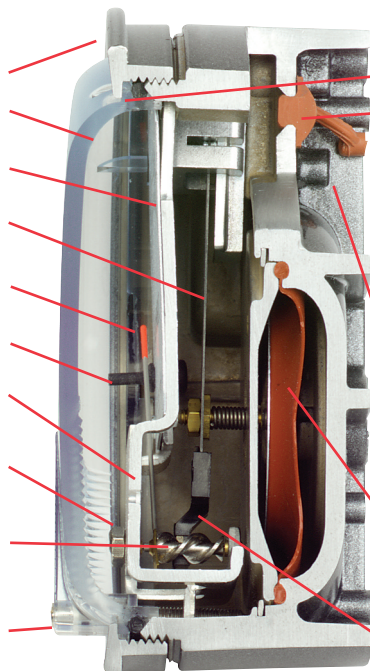
Pointer stops of molded rubber prevent pointer over-travel without damage.

"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 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.

| Model | Range Inches of Water | Price | Model | Range PSI | Price | Model | Range MM of Water | Price | Model | Range, kPa | Price | Dual Scale Air Velocity Units For use with pitot tube | | | | |
|--------------------|-----------------------|---------|---|--------------------|---------|--------------------|-------------------|---------|----------------------------------|---------------------|------------|--|--------------------------------|------------|--|--|
| 2000-00N† | 0.05-0.2 | \$77.45 | 2201 | 0-1 | \$67.95 | 2000-6MM† | 0-6 | \$73.00 | 2000-0.5KPA | 0-0.5 | \$63.50 | Model | Range in W.C./ Velocity F.P.M. | Price | | |
| 2000-00† | 0-25 | 73.00 | 2202 | 0-2 | 67.95 | 2000-10MM† | 0-10 | 63.50 | 2000-1KPA | 0-1 | 63.50 | | | | | |
| 2000-0† | 0-50 | 63.50 | 2203 | 0-3 | 67.95 | 2000-15MM | 0-15 | 63.50 | 2000-1.5KPA | 0-1.5 | 63.50 | 2000-00AV† | 0-25/ 300-2000 | \$98.00 | | |
| 2001 | 0-1.0 | 63.50 | 2204 | 0-4 | 67.95 | 2000-25MM | 0-25 | 63.50 | 2000-2KPA | 0-2 | 63.50 | | | | | |
| 2002 | 0-2.0 | 63.50 | 2205 | 0-5 | 67.95 | 2000-30MM | 0-30 | 63.50 | 2000-2.5KPA | 0-2.5 | 63.50 | 2000-0AV† | 0-50/ 500-2800 | 88.50 | | |
| 2003 | 0-3.0 | 63.50 | 2210* | 0-10 | 127.95 | 2000-50MM | 0-50 | 63.50 | 2000-3KPA | 0-3 | 63.50 | | | | | |
| 2004 | 0-4.0 | 63.50 | 2215* | 0-15 | 127.95 | 2000-80MM | 0-80 | 63.50 | 2000-4KPA | 0-4 | 63.50 | 2001AV | 500-4000 0-1.0/ | 67.95 | | |
| 2005 | 0-5.0 | 63.50 | 2220* | 0-20 | 127.95 | 2000-100MM | 0-100 | 63.50 | 2000-5KPA | 0-5 | 63.50 | | | | | |
| 2006 | 0-6.0 | 63.50 | 2230** | 0-30 | 207.50 | 2000-125MM | 0-125 | 63.50 | 2000-8KPA | 0-8 | 63.50 | 2002AV | 1000-5600 0-2.0/ | 67.95 | | |
| 2008 | 0-8.0 | 63.50 | Model | Range, CM of Water | Price | 2000-150MM | 0-150 | 63.50 | 2000-10KPA | 0-10 | 63.50 | | | | | |
| 2010 | 0-10 | 63.50 | | | | 2000-200MM | 0-200 | 63.50 | 2000-15KPA | 0-15 | 63.50 | 2005AV | 2000-8800 0-5.0/ | 67.95 | | |
| 2012 | 0-12 | 63.50 | 2000-250MM | 0-250 | 63.50 | 2000-20KPA | 0-20 | 63.50 | 2010AV | 2000-12500 0-10/ | 67.95 | | | | | |
| 2015 | 0-15 | 63.50 | 2000-300MM | 0-300 | 63.50 | Zero Center Ranges | | | | | | 2000-25KPA | 0-25 | 63.50 | | |
| 2020 | 0-20 | 63.50 | 2000-15CM | 0-15 | \$63.50 | Zero Center Ranges | | | 2000-30KPA | 0-30 | 63.50 | | | | | |
| 2025 | 0-25 | 63.50 | 2000-20CM | 0-20 | 63.50 | 2300-6MM† | 3-0-3 | \$99.00 | Zero Center Ranges | | | Model | Range, in w.c. | Price | | |
| 2030 | 0-30 | 63.50 | 2000-25CM | 0-25 | 63.50 | 2300-10MM† | 5-0-5 | 74.00 | 2300-1KPA | .5-0-5 | \$74.00 | | | | | |
| 2040 | 0-40 | 63.50 | 2000-50CM | 0-50 | 63.50 | 2300-20MM† | 10-0-10 | 74.00 | 2300-2KPA | 1-0-1 | 74.00 | | | | | |
| 2050 | 0-50 | 63.50 | 2000-80CM | 0-80 | 63.50 | Model | | | 2300-2.5KPA | 1.25-0-1.25 | 74.00 | Dual Scale English/Metric Models | | | | |
| 2060 | 0-60 | 63.50 | 2000-100CM | 0-100 | 63.50 | 2000-60NPA† | 10-0-50 | \$77.45 | 2300-3KPA | 1.5-0-1.5 | 74.00 | 2000-00D† | 0-25 | 0-62 Pa | | |
| 2080 | 0-80 | 63.50 | 2000-150CM | 0-150 | 67.95 | 2000-60PA† | 0-60 | 73.00 | Dual Scale English/Metric Models | | | | | | | |
| 2100 | 0-100 | 63.50 | 2000-200CM | 0-200 | 67.95 | 2000-100PA† | 0-100 | 63.50 | Model | | | | | | | |
| 2120 | 0-120 | 63.50 | 2000-250CM | 0-250 | 67.95 | 2000-125PA† | 0-125 | 63.50 | 2000D | 0-2.0 | 0-500 Pa | 2001D | 0-1.0 | 0-250 Pa | | |
| 2150 | 0-150 | 63.50 | 2000-300CM | 0-300 | 67.95 | 2000-250PA | 0-250 | 63.50 | 2002D | 0-3.0 | 0-750 Pa | | | | | |
| 2160 | 0-160 | 63.50 | Zero Center Ranges | | | 2000-300PA | 0-300 | 63.50 | 2003D | 0-4.0 | 0-1.0 kPa | 2004D | 0-5.0 | 0-1.25 kPa | | |
| 2180* | 0-180 | 148.50 | 2300-4CM | 2-0-2 | \$78.45 | 2000-500PA | 0-500 | 63.50 | 2005D | 0-6.0 | 0-1.5 kPa | | | | | |
| 2250* | 0-250 | 148.50 | 2300-10CM | 5-0-5 | 78.45 | 2000-750PA | 0-750 | 63.50 | 2006D | 0-8.0 | 0-2.0 kPa | 2008D | 0-10 | 0-2.5 kPa | | |
| Zero Center Ranges | | | 2300-30CM | 15-0-15 | 78.45 | 2000-1000PA | 0-1000 | 63.50 | 2007D | 0-15 | 0-3.7 kPa | | | | | |
| 2300-00† | 0.125-0-0.125 | \$74.00 | †These ranges calibrated for vertical scale position. | | | Zero Center Ranges | | | 2008D | 0-20 | 0-5 kPa | 2010D | 0-15 | 0-6.2 kPa | | |
| 2300-0† | .25-0-.25 | 74.00 | • Accuracy +/-3% | | | Model | Range, Pa | Price | 2009D | 0-25 | 0-12.4 kPa | | | | | |
| 2301 | .5-0-.5 | 74.00 | • MP option standard | | | 2300-60PA† | 30-0-30 | \$74.00 | 2010D | 0-50 | 0-15 kPa | | | | | |
| 2302 | 1-0-1 | 74.00 | • HP option standard | | | 2300-100PA† | 50-0-50 | 74.00 | 2015D | 0-60 | | | | | | |
| 2304 | 2-0-2 | 74.00 | | | | 2300-120PA | 60-0-60 | 74.00 | 2020D | 0-100 | | | | | | |
| 2310 | 5-0-5 | 74.00 | | | | 2300-200PA | 100-0-100 | 74.00 | 2025D | 0-125 | | | | | | |
| 2320 | 10-0-10 | 74.00 | | | | 2300-250PA | 125-0-125 | 74.00 | 2050D | 0-150 | | | | | | |
| 2330 | 15-0-15 | 74.00 | | | | 2300-300PA | 150-0-150 | 74.00 | 2060D | 0-250 | | | | | | |
| | | | | | | 2300-500PA | 250-0-250 | 74.00 | | | | | | | | |
| | | | | | | 2300-1000PA | 500-0-500 | 74.00 | | | | | | | | |

VELOCITY AND VOLUMETRIC FLOW UNITS

Scales are available on the Magnehelic® 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.

ACCESSORIES

| | |
|--|---------|
| A-321, Safety Relief Valve | \$36.50 |
| A-448, 3-piece magnet kit for mounting Magnehelic® gage directly to magnetic surface | 10.75 |
| A-135, Rubber gasket for panel mounting | 1.50 |
| A-401, Plastic Carry Case | 26.25 |



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.