

# SERIES 605 | MAGNEHELIC® DIFFERENTIAL PRESSURE INDICATING TRANSMITTER

## FEATURES/BENEFITS

- Easy to read gage permits viewing from far away
- Patented design provides quick response to pressure changes means no delay in signaling and alerting to critical situations
- Durable and rugged housing and high-quality components combined provides long service life and minimized down time
- 4 to 20 mA output allows for integration into Building Automation Systems
- Optional stainless steel bezel is the same installation diameter as Magnehelic® gage and simplifies field upgrade to 605 indicating transmitter

## APPLICATIONS

- Monitor pressures in ducts, rooms, or total building pressures
- Filter monitoring
- Local indication of clean room pressures with process signal sent to control room

## DESCRIPTION

The **SERIES 605** Magnehelic® Indicating Transmitter provides for both visual monitoring and electronic control of very low differential pressure. The Series 605 is ideal for control applications in building HVAC systems where local indication is desired during routine maintenance checks or necessary when trouble shooting the system. The easily read dial gage is complimented by the two-wire, 4 to 20 mA control signal utilizing the time-proven Dwyer® Magnehelic® gage mechanical design and Series 600 transmitter technology. The two-wire design with terminal strip on the rear simplifies connection in any 4 to 20 mA control loop powered by a 10 to 35 VDC supply.



**Note:** Shown with optional -SS bezel. Backward compatible with Magnehelic® Gage.

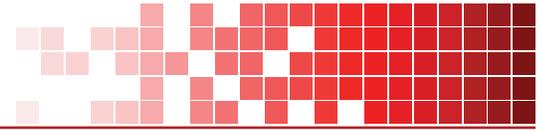
## GAGE SPECIFICATIONS

<b>Service</b>	Air and non-combustible, compatible gases.
<b>Wetted Materials</b>	Consult factory.
<b>Accuracy</b>	See ordering page.
<b>Stability</b>	±1% FS/yr.
<b>Pressure Limits</b>	See ordering page.
<b>Temperature Limits</b>	20 to 120°F (-6.67 to 48.9°C).
<b>Process Connections</b>	1/8" female NPT.
<b>Size</b>	4" (101.6 mm) dial face, 5" (127 mm) OD x 2-11/16" (68.3 mm). For -SS Bezel 4-3/4" OD (120.7 mm) x 2-21/32" (67.5 mm).
<b>Weight</b>	1 lb, 12.6 oz (811 g).
<b>Agency Approvals</b>	CE.

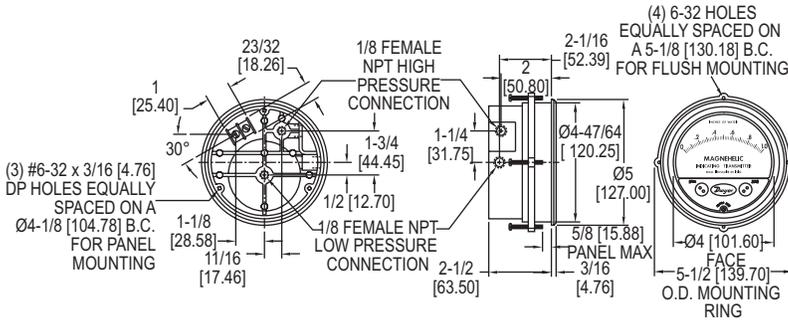
## TRANSMITTER SPECIFICATIONS

<b>Accuracy</b>	See ordering page (includes linearity, hysteresis, and repeatability).
<b>Temperature Limits</b>	20 to 120°F (-6.67 to 48.9°C).
<b>Compensated Temperature Range</b>	32 to 120°F (0 to 48.9°C).
<b>Thermal Effect</b>	±0.025% FS/°F (0.045% FS/°C).
<b>Power Requirements</b>	10 to 35 VDC (2-wire).
<b>Output Signal</b>	4 to 20 mA.
<b>Zero and Span Adjustments</b>	Protected potentiometers.
<b>Loop Resistance</b>	DC: 0 to 1250 Ω maximum.
<b>Current Consumption</b>	DC: 38 mA maximum.
<b>Electrical Connections</b>	Screw terminal block.
<b>Mounting Orientation</b>	Diaphragm in vertical position. Consult factory for other position orientations.

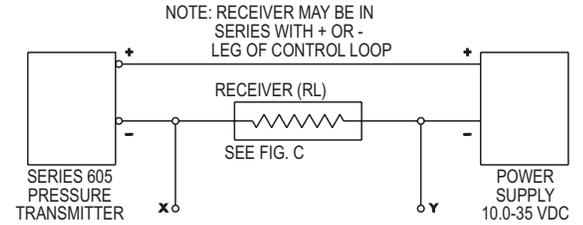




## DIMENSIONS



## WIRING DIAGRAM



## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

<p><b>SERIES</b></p> <p><b>605</b> - Differential pressure indicating transmitter</p>	<p><b>605</b>    <b>-X</b>    <b>-X</b></p>	<p><b>VARIANT 1</b></p> <table border="0"> <tr> <td><b>00N</b> - 0.05 to 0 to 0.20 in w.c.</td> <td><b>20</b> - 0.05 to 20.0 in w.c.</td> </tr> <tr> <td><b>0</b> - 0.05 to 0.50 in w.c.</td> <td><b>30</b> - 0.05 to 30.0 in w.c.</td> </tr> <tr> <td><b>1</b> - 0.05 to 1.0 in w.c.</td> <td><b>50</b> - 0.05 to 50.0 in w.c.</td> </tr> <tr> <td><b>2</b> - 0.05 to 2.0 in w.c.</td> <td><b>60PA</b> - 0 to 60 Pa</td> </tr> <tr> <td><b>3</b> - 0.05 to 3.0 in w.c.</td> <td><b>125PA</b> - 0 to 125 Pa</td> </tr> <tr> <td><b>6</b> - 0.05 to 6.0 in w.c.</td> <td><b>250PA</b> - 0 to 250 Pa</td> </tr> <tr> <td><b>10</b> - 0.05 to 10.0 in w.c.</td> <td><b>500PA</b> - 0 to 500 Pa</td> </tr> <tr> <td><b>11</b> - 0.25 to 0 to 0.25 in w.c.</td> <td><b>1KPA</b> - 0 to 1kPa</td> </tr> <tr> <td><b>12</b> - 0 to ±60 Pa</td> <td><b>1.5KPA</b> - 0 to 1.5kPa</td> </tr> </table>	<b>00N</b> - 0.05 to 0 to 0.20 in w.c.	<b>20</b> - 0.05 to 20.0 in w.c.	<b>0</b> - 0.05 to 0.50 in w.c.	<b>30</b> - 0.05 to 30.0 in w.c.	<b>1</b> - 0.05 to 1.0 in w.c.	<b>50</b> - 0.05 to 50.0 in w.c.	<b>2</b> - 0.05 to 2.0 in w.c.	<b>60PA</b> - 0 to 60 Pa	<b>3</b> - 0.05 to 3.0 in w.c.	<b>125PA</b> - 0 to 125 Pa	<b>6</b> - 0.05 to 6.0 in w.c.	<b>250PA</b> - 0 to 250 Pa	<b>10</b> - 0.05 to 10.0 in w.c.	<b>500PA</b> - 0 to 500 Pa	<b>11</b> - 0.25 to 0 to 0.25 in w.c.	<b>1KPA</b> - 0 to 1kPa	<b>12</b> - 0 to ±60 Pa	<b>1.5KPA</b> - 0 to 1.5kPa	<p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li><b>AT</b> - Aluminum tag</li> <li><b>G</b> - Green scale overlay</li> <li><b>HC</b> - Horizontal calibration (90 deg face up)</li> <li><b>M</b> - Mirror scale overlay</li> <li><b>NIST</b> - NIST traceable calibration certificate</li> <li><b>R</b> - Red scale overlay</li> <li><b>SS</b> - Brushed 304 stainless steel bezel</li> <li><b>ST</b> - Stainless steel tag</li> <li><b>TA</b> - Tilt angle from vertical in degrees (-90 to 90)</li> <li><b>WP</b> - Weather proof enclosure</li> <li><b>Y</b> - Yellow scale overlay</li> </ul>
<b>00N</b> - 0.05 to 0 to 0.20 in w.c.	<b>20</b> - 0.05 to 20.0 in w.c.																				
<b>0</b> - 0.05 to 0.50 in w.c.	<b>30</b> - 0.05 to 30.0 in w.c.																				
<b>1</b> - 0.05 to 1.0 in w.c.	<b>50</b> - 0.05 to 50.0 in w.c.																				
<b>2</b> - 0.05 to 2.0 in w.c.	<b>60PA</b> - 0 to 60 Pa																				
<b>3</b> - 0.05 to 3.0 in w.c.	<b>125PA</b> - 0 to 125 Pa																				
<b>6</b> - 0.05 to 6.0 in w.c.	<b>250PA</b> - 0 to 250 Pa																				
<b>10</b> - 0.05 to 10.0 in w.c.	<b>500PA</b> - 0 to 500 Pa																				
<b>11</b> - 0.25 to 0 to 0.25 in w.c.	<b>1KPA</b> - 0 to 1kPa																				
<b>12</b> - 0 to ±60 Pa	<b>1.5KPA</b> - 0 to 1.5kPa																				

## ACCESSORIES

Model	Description
<b>A-298</b>	Flat aluminum bracket for flush mounting Photohelic® & Capsuhelic® gages, 603A, 605, and 3000MR
<b>A-370</b>	Flush mount bracket used with: Photohelic® 3000MR/MRS, Capsuhelic®, 631B transmitter, EDA. Bracket is then surface mounted. Steel with gray hammertone epoxy finish
<b>A-320-B</b>	Enclosure for 3000MR/MRS Photohelic® switch/gage, 605 Magnehelic® DP transmitter, DH3 DigiHelic® pressure controller, 2000 Magnehelic® gage with medium and high pressure options, 4-13/16" (122.24 mm)
<b>A-489</b>	4" 303 SS straight static pressure tip with flange

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.

