**ATEX Approved 605 Differential Pressure Indicating Transmitter**

**Series 605 in Flame-Proof ATEX Enclosure**

The ATEX approved Series AT2605 Indicating Transmitter provides for both visual monitoring and electronic control of very low differential pressure in hazardous locations. 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 simplifies any 4 to 20 mA control loop powered by a 10 to 35 VDC supply. Flame-proof ATEX enclosures are available in aluminum and can include a glass window for viewing process pressure on gage face.

**Important notes for installation:**
- Cables must be fitted through 1/2˝ NPT cable gland or ATEX conduit (not supplied with instrument).
- Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (IP65 with option OPV, overpressure relief valve).
- Open cover only after de-energizing instrument.
- **Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

**SPECIFICATIONS**

**GAGE SPECIFICATIONS**
- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** See 605 ordering page.
- **Pressure Limits:** See 605 ordering page.
- **Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C); Case: -58 to 140°F (-50 to 60°C) (Note: Product temperature limits differ from case).
- **Size:** 4˝ (101.6 mm) dial face.

**TRANSMITTER SPECIFICATIONS**
- **Accuracy:** See 605 ordering page (includes linearity, hysteresis, repeatability).
- **Compensated Temperature Range:** 32 to 120°F (0 to 48.9°C).
- **Thermal Effect:** ±0.025% FS/°F (0.045% FS/°C).
- **Stability:** ±1% FS/year.
- **Power Requirements:** 10 to 35 VDC (2-wire).
- **Output Signal:** 4 to 20 mA.
- **Zero and Span Adjustments:** Protected potentiometers on 605 face. Can access those by opening case. Allowed only in safe zone.
- **Loop Resistance:** DC; 0 to 1250 Ω max.
- **Current Consumption:** DC; 38 mA max.
- **Electrical Connections:** Screw terminal block.
- **Mounting Orientation:** Diaphragm in vertical position.
- **Enclosure Rating:** IP66. IP65 with option OPV, overpressure relief valve.
- **Housing Material:** Aluminum.
- **Finishing:** Texture epoxy coat RAL7038.
- **Process Connections:** 1/8˝ NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.
- **Electrical Connections:** Two 1/2˝ NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.
- **Weight:** 2.6 lb (5.7 kg).
- **ATEX Approved Products from Comhas with ECN:** NEMKO 10ATEX1096.
- **Agency Approvals:** CE 0470        II2 GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIc Db T 85°C.

<table>
<thead>
<tr>
<th>Series</th>
<th>AT2605</th>
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<tbody>
<tr>
<td>Range</td>
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<tr>
<td>-00N</td>
<td>.05 to 0 to .20 in w.c.</td>
</tr>
<tr>
<td>-11</td>
<td>.25 to 0 to .25 in w.c.</td>
</tr>
<tr>
<td>-0</td>
<td>0 to .50 in w.c.</td>
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<tr>
<td>-1</td>
<td>0 to 1.0 in w.c.</td>
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<tr>
<td>-3</td>
<td>0 to 2.0 in w.c.</td>
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<tr>
<td>-6</td>
<td>0 to 3.0 in w.c.</td>
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<tr>
<td>-10</td>
<td>0 to 6.0 in w.c.</td>
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<tr>
<td>-20</td>
<td>0 to 10.0 in w.c.</td>
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<tr>
<td>-50</td>
<td>0 to 20.0 in w.c.</td>
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<tr>
<td>-60 Pa</td>
<td>0 to 30 in w.c.</td>
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<tr>
<td>-125 Pa</td>
<td>0 to 50 in w.c.</td>
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<tr>
<td>-250 Pa</td>
<td>0 to 60 Pa</td>
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<tr>
<td>-500 Pa</td>
<td>0 to 125 Pa</td>
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<tr>
<td>-250 Pa</td>
<td>0 to 250 Pa</td>
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<tr>
<td>-500 Pa</td>
<td>0 to 500 Pa</td>
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</tbody>
</table>

**Construction**
- D - Standard construction

**Housing**
- -X - Aluminum

**Cover**
- B - Blind
- O - Glass top cover

**Process Connection**
- 1 - 1/8˝ NPT female brass ports
- 2 - 1/8˝ NPT female SS ports

**Overpressure Plug**
- X - Standard without overpressure relief valve
- OPV - Overpressure relief valve Material same as ports

**Tag**
- T2 - SS information label