The Series AT2DH3 ATEX/IECEX Approved DH3 Differential Pressure Controller is a 3-in-1 instrument possessing a digital display gage, control relay switches, and a transmitter with current output.Combining these three features allows the reduction of several instruments with one product, saving inventory, installation time and money. The Digihelic® controller is the ideal instrument for hazardous area pressure, velocity and flow applications by allowing for the selection of pressure, velocity or volumetric flow operation in several commonly used engineering units. Two SPDT control relays with adjustable dead bands are provided along with a scalable 4-20 mA process output. In velocity or flow modes, a square root output is provided on the 4-20 mA signal to coincide with the actual flow curve. Flame-proof enclosures are available in aluminum and can include a glass window for viewing process information and set point status on digital display.

**FEATURES/BENEFITS**
- 3-in-1 instrument allows the reduction of several instruments with one product, saving inventory, installation time and money.
- Flame-proof enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to process pressure and set point status.

**APPLICATIONS**
- Hazardous area pressure measurement and switching

**Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

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**SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Consult factory.

**DH3 Housing Material:** Die cast aluminum case and bezel.

**Finishing:** Texture epoxy coat RAL7038.

**Accuracy:** < ±1% per year.

**Pressure Limits:**
- Ranges ≤ 2.5 in. w.c.: 5 psi; ±2.5 in. w.c.: ±2.5 psi; 10 in. w.c.: 10 psi; 4-20 mA<br>- Pressure Limits: ±2.5 in. w.c.: ±2.5 psi; 10 in. w.c.: ±10 psi.

**Temperature Limits:**
- 32 to 140°F (0 to 60°C) (Note: Product temperature limits differ from case).

**Response Time:** 250 ms (damping set to 1).

**Display:** Backlit 4 digit LCD 0.4” height LED indicators for set point and alarm status.

**Process Connections:**
- Two 1/2˝ NPT female. Cable gland not included.

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**MODEL CHART**

<table>
<thead>
<tr>
<th>Example</th>
<th>AT2DH3-002-A01XT2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>AT2DH3</td>
</tr>
<tr>
<td>Range</td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>0 to 0.25 in. w.c. (0 to 62.2 Pa)</td>
</tr>
<tr>
<td>003</td>
<td>0 to 25 in. w.c. (0 to 622.1 Pa)</td>
</tr>
<tr>
<td>005</td>
<td>0 to 25 in. w.c. (0 to 622.1 Pa)</td>
</tr>
<tr>
<td>006</td>
<td>0 to 1 in. w.c. (0 to 248.8 Pa)</td>
</tr>
<tr>
<td>007</td>
<td>0 to 5 in. w.c. (0 to 1001 in. w.c. (0 to 24884 Pa)</td>
</tr>
<tr>
<td>009</td>
<td>0 to 25 in. w.c. (0 to 6221 Pa)</td>
</tr>
<tr>
<td>010</td>
<td>0 to 50 in. w.c. (0 to 12442 Pa)</td>
</tr>
<tr>
<td>011</td>
<td>0 to 100 in. w.c. (0 to 24884 Pa)</td>
</tr>
<tr>
<td>012</td>
<td>0.25 to 0.25 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
<tr>
<td>014</td>
<td>0.5 to 0.5 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
<tr>
<td>015</td>
<td>1 to 1 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
<tr>
<td>016</td>
<td>2.5 to 2.5 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
<tr>
<td>017</td>
<td>5 to 5 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
<tr>
<td>018</td>
<td>10 to 10 in. w.c. (0.25 to 0.25 in. w.c.)</td>
</tr>
</tbody>
</table>

**Housing Material**
- Aluminum

**Cover**
- Blind
- Glass top cover

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

**Overpressure Plug**
- Standard without overpressure relief valve
- Overpressure relief valve
- Material same as port

**Tag**
- SS information label

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USA: California Proposition 65

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

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