Honeywell Solutions - Model HPW 7000

Honeywell’s Answer to High Purity Water pH Measurement

Model HPW7000/DL421 High Purity Water pH Measurement Solution

A solution that combines simplicity with the accuracy and stability needed for pH measurement in high purity water applications.

Application

Measurement and control of water pH to minimize corrosion and scaling in Electric Utilities, Cogens, Industrial Boilers and other Steam Generators.

- Are you putting your boiler, turbine or other multi-million dollar equipment in jeopardy by not accurately measuring the pH of water?

- Do you spend too much time Maintaining and Calibrating your current pH measurement equipment?

The Problem

Measurement of water pH is critical to preventing unplanned outages due to corrosion and scaling in boilers, turbines and other plant processes. Measurement of pH in high purity water used in Power Plants is difficult and is often described as a nightmare by plant chemists.

Honeywell eliminates these problems with a completely assembled pH measuring solution savings thousands of dollars in down time due to unplanned outages and hundreds of dollars in time for installation, calibration and maintenance.

Contributing factors are:

- Low conductivity of High Purity Water
- Variations in reference junction voltage
- Solution temperature compensation
- Streaming current interference
- Inconsistent sample mixing
- Electrode position static charges
- Variations in sample flow

Industrial Measurement and Control
The Honeywell Solution

Honeywell’s HPW7000 High Purity Water pH Measurement Solution gives you the performance you need ...

- Accuracy Required: +/- 0.1 pH
- Stability/Drift: +/- 0.1 pH/week
- Water Conductivity: > 0.055 umhos/cm

... and the simplicity you want.

- Completely assembled pH measurement system
- Menu driven configuration / calibration displays
- Electrode assembly easily removed without special tools or instructions
- Easy to fill reference electrode
- Quick-connect cable connections

Specifications: Model HPW7000/DL421 High Purity Water pH Measurement Solution

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Range</td>
<td>4 to 10 pH</td>
</tr>
<tr>
<td>Output</td>
<td>to DirectLine Transmitter or 9782/7082 Analyzer</td>
</tr>
<tr>
<td>Conductivity Range</td>
<td>&gt; 0.055 umhos</td>
</tr>
<tr>
<td>Accuracy / Noise</td>
<td>+/- 0.1 pH / &lt; 0.1 pH</td>
</tr>
<tr>
<td>Stability / Drift</td>
<td>+/- 0.1 pH per week</td>
</tr>
<tr>
<td>Process Connection</td>
<td>1/4 in. male, side mounted on flow assembly</td>
</tr>
<tr>
<td>Downstream Back Pressure</td>
<td>-10 in. W.C. (min), +1.0 in. W.C. (max)</td>
</tr>
<tr>
<td>Temperature: Assembly/Electrodes</td>
<td>10 to 45 ºC / 10 to 80 ºC</td>
</tr>
<tr>
<td>Flow Assembly Material</td>
<td>316L SS</td>
</tr>
<tr>
<td>Electrode Assembly Material</td>
<td>316L SS</td>
</tr>
<tr>
<td>Finish</td>
<td>150-grit polish minimum</td>
</tr>
</tbody>
</table>

Specifications:

- Model HPW7000/DL421
- pH Range: 4 to 10 pH
- Conductivity Range: > 0.055 umhos
- Accuracy: +/- 0.1 pH
- Stability: +/- 0.1 pH/week
- Process Connection: 1/4 in. male, side mounted on flow assembly
- Downstream Back Pressure: -10 in. W.C. (min), +1.0 in. W.C. (max)
- Temperature: 10 to 45 ºC / 10 to 80 ºC
- Flow Assembly Material: 316L SS
- Electrode Assembly Material: 316L SS
- Finish: 150-grit polish minimum

The Honeywell Hi-pHurity pH Measurement system’s superior accuracy and stability.

Resistivity = 18 megohms - cm

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Honeywell
Industrial Measurement and Control
Honeywell
1100 Virginia Drive
Fort Washington, PA 19034
www.honeywell.com/imc