Honeywell Durafet® III pH Electrodes

Improved Durability and Reliability Increase pH Electrode Performance

Durafet III Non-Glass pH Electrodes with Watertight Vario Pin Connectors
Honeywell introduces the Durafet III pH electrode, a non-glass, unbreakable, ISFET-based pH sensor. This industry-proven pH electrode, with over 11 years of application experience, provides fast, accurate and dependable pH measurement in the most demanding applications. A sanitary version is available to meet 3A standards for food and dairy, pharmaceutical and biotech applications. The NEW IP68-Rated Vario Pin connector assures a watertight cable connection to the electrode, enabling easy and reliable electrode replacement without twisting of cables.

Durafet III Eliminates Common Problems of Glass Electrodes – Say Goodbye to:
• Grab samples
• Frequent replacement due to breakage
• Slow response due to aging
• Frequent calibration
• Limited temperature and pH range

Improved Control – Increased Savings
If you are using reagents like sodium hydroxide or sulfuric acid to control pH in your process, Honeywell can help you realize significant savings. The rapid response time and reduced hysteresis of Durafet III electrodes allow real-time pH control. Real-time control improves productivity and product quality while reducing costly chemical reagent consumption.

Superior Reliability in Submersion Applications
The Vario Pin, IP68 rated connector eliminates moisture or process intrusion when the electrode is submersed directly into a process. This cable option is available in 20 and 50 foot lengths. You gain improved reliability in high-moisture environments, reducing man hours spent troubleshooting, maintaining and calibrating moisture-related corrosion problems.

Features and Benefits:
• Non-glass pH measurement
  - Eliminate grab samples. Use in applications where glass is prohibited
• Response rate is 10x faster than glass
  - Tighter process control
• High sensor stability
  - Less frequent calibrations
• IP68 watertight cables
  - High reliability in harsh environments
• One electrode covers wide temperature range
  - Reduce electrode inventory
• Integral temperature compensation
  - Higher accuracy
• Vario pin electrode connection & optional Twist Lock fitting
  - Reduced replacement costs

Durafet III Electrodes are available for Industrial or Sanitary applications:
• Wastewater influent/effluent monitoring
• Neutralization
• Food & Dairy Quality Control
• Reagent Addition Control
• Plating
• Pharmaceutical
Honeywell Durafet® III pH Electrodes

### Specifications

<table>
<thead>
<tr>
<th><strong>Industrial pH Electrode</strong></th>
<th><strong>Sanitary pH Electrode</strong></th>
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<tbody>
<tr>
<td><strong>Operating Range</strong></td>
<td>0 to 14 pH</td>
</tr>
<tr>
<td><strong>Temp. Rating</strong></td>
<td>-10 to 110° C (+14 to 230° F)</td>
</tr>
<tr>
<td><strong>Wetted Materials</strong></td>
<td>Ryton body, silicon ISFET die, Ceramic reference junction, Viton media seal, EPM reference frit seals</td>
</tr>
<tr>
<td><strong>Pressure Rating</strong></td>
<td>345 kPa (50 psig) @ 100° C (212° F), 690 kPa (100 psig) @ 50° C (122° F)</td>
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<tr>
<td><strong>Mounting, In-Line</strong></td>
<td>3/4 inch NPT male process connection, fits into standard 3/4 inch sch. 40 metal pipe tee or special dimension plastic tee (see accessories in Model Selection Guide)</td>
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<tr>
<td><strong>Mounting, Immersion</strong></td>
<td>3/4 inch NPT male to support pipe</td>
</tr>
<tr>
<td><strong>Electrical Connection</strong></td>
<td>Vario Pin, 11 conductor connector, IP68 rated</td>
</tr>
<tr>
<td><strong>DirectLine Remote Cable</strong></td>
<td>20 and 50 feet</td>
</tr>
<tr>
<td><strong>Cap Adapter (9782P &amp; APT Series)</strong></td>
<td>20 and 50 feet</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>220 x 27 mm dia. (8.65 x 1.05 inches)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>Approximately 0.23 kg (0.5 lb)</td>
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**Warranty/Remedy**

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer’s sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing, however we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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