**UNIVERSAL INDUSTRIAL ELECTRODES**

**12 mm (0.47”) pH Sensor for Tough Measurement Applications**

**Applications:**
- High Temperature Environment
- Continuous Processing Applications
- Harsh Conditions
- Steam Sterilization

The PHE-5432 is a steam-sterilizable combination pH electrode designed to withstand high temperatures and pressures. The use of a porous Teflon® liquid double junction and specifically formulated low impedance glass membrane allows it to function in the broadest spectrum of pH applications. This combination of features permits extended periods of pH measurement in the presence of poisoning ions or where membrane leaching would shorten the life of a conventional electrode. Melting of the cable due to contact with steam lines and motion generated noise are common problems with interconnecting cables on steam sterilizable electrodes. Our proprietary TPE high temperature/ultra-low noise cable is designed for optimal service, even in this demanding environment.

**SPECIFICATIONS**
- pH Range: 0 to 14 pH
- Temperature Range: -5 to 135°C (23 to 275°F) @ 25 psig
- Maximum Pressure: 500 psig @ 25°C (77°F)
- Accuracy: ±0.1% over full range
- Sodium Error: Less than 0.05 pH in 0.1 Molar Na+ ion @ 12.8 pH
- Reference Cell: Double Junction KNO3 and KCl/AgCl
- Reference Junction: Porous Teflon®
- Zero Potential: 7.0 pH ±0.2 pH
- Wetted Materials: Teflon®, glass membrane, glass outer body.
- Ryton outer body on PHE-5432-10
- Drift: Less than 2 mV per week

**To Order (Specify Model Number)**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Price w/ATC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE-5432-10(*)</td>
<td>$95</td>
<td>$120</td>
<td>Glass body, porous Teflon® liquid junction pH electrode</td>
</tr>
<tr>
<td>ISE-5432-10-NA(*)</td>
<td>200</td>
<td>225</td>
<td>Na/Sodium ion selective electrode</td>
</tr>
<tr>
<td>ORE-5432-10</td>
<td>125</td>
<td>-</td>
<td>Oxidation Reduction Potential electrode</td>
</tr>
</tbody>
</table>

Specify ATC sensor: “-PT100” for 100 ohm Platinum RTD or “-PTIK” for 1000 ohm Platinum RTD.

Ordering Example: PHE-5432-10-PT100, high temperature probe with 10 feet of cable and 100 ohm ATC, $95 + 25 = $120.
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Sheding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**

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