This combination pH sensor utilizes a low-impedance measurement electrode for use in pure water applications such as steam condensate, boiler feedwater, and other water supplies with conductivity from 1 to 10 μS/cm.

**SPECIALY FORMULATED GLASS ELECTRODE**

The low-impedance (< 100 MΩ) glass measuring electrode has been designed specifically for measurements in low-conductivity water.

**DOUBLE JUNCTION REFERENCE ELECTRODE**

The reference electrode utilizes a double junction design which inhibits silver ions from contacting the process solution, thereby preventing junction fouling from silver compound precipitates.

**FACTORY-SEALED ELECTRODE DESIGN**

By using a self-contained sensor comprising measuring electrode, reference electrode, and temperature compensator, maintenance and troubleshooting time are minimized.

**ADAPTER/GUARD ACCESSORY**

This sensor is used in conjunction with a stainless steel adapter that shields against electrical interference.

**FOXBORO ANALYZER/TRANSMITTER COMPATIBILITY**

A variety of Foxboro analyzers and transmitters are available for conditioning the signal generated by this combination pH sensor.

**EFFICIENT PROCESS MOUNTING**

The twist lock process connection facilitates proper in-line mounting and instant service. For in-situ installations, a convenient 3/4 NPT connection is provided at the cable end of the sensor.
STANDARD SPECIFICATIONS

Sensitivity
±0.02 pH (±1.5 mV)

Accuracy
±0.05 pH (±3 mV)

Measuring Electrode
Low impedance spherical glass

Reference Electrode
Annular ceramic junction, double junction, Ag/AgCl internal half cell

Minimum Conductivity of Sample
1 μS/cm

Measurement Range
2 to 12 pH

Temperature Range
-5 to +100°C (25 to 212°F)

Maximum Pressure
At 25°C (77°F): 1.03 MPa (150 psi)
At 100°C (212°F): 0.52 MPa (75 psi)

Process Connection
Twist lock adapter for 3/4 or 1 NPT tee

Maximum Flow Rate
125 ml/min

Automatic Temperature Compensation
Integral 100Ω platinum RTD (resistance temperature detector)

Wetted Parts

BODY
Kynar

MEASURING ELECTRODE
Glass

REFERENCE ELECTRODE
Ceramic

O-RINGS
Viton and EPR

Wire Termination
Stripped and tinned, or spade lugs. Selectable by part number.

Cable Length
6 m (20 ft)

Solution Ground
None. User should connect metal object in contact with process to analyzer solution ground.

PART NUMBERS

<table>
<thead>
<tr>
<th>Selections</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure water pH sensor with tinned leads</td>
<td>AS100AD</td>
</tr>
<tr>
<td>Pure water pH sensor with spade lugs</td>
<td>AS100AC</td>
</tr>
<tr>
<td>Twist lock adapter, 316 ss, 3/4 NPT</td>
<td>AS100AW</td>
</tr>
<tr>
<td>Twist lock adapter, 316 ss, 1 NPT</td>
<td>AS100AX</td>
</tr>
</tbody>
</table>
ORDERING INSTRUCTIONS — SPECIFY

1. Sensor Part Number
2. Adapter Part Number

OTHER FOXBORO PRODUCTS

The Foxboro product lines offer a broad range of measurement and instrument products, including solutions for pressure, flow, analytical, temperature, positioning, controlling, and recording. For a list of these offerings, visit our web site at:

www.fielddevices.foxboro.com