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SP200

Manufacturers of Sensors, Bioreactors and Process Control Automation

Fluoride Resistant pH 12 mm Glass ProcessProbe®



FEATURES AND APPLICATIONS

The HF-Resistant SP Series ProcessProbe® is a 12 mm diameter electrode supplied in the European standard Pg13.5 configuration. It has the same features as the regular SP200 sensor, but has a special glass formulation designed to better resist applications with up to 1% HF. Ideal for semi-conductor, glass etching and electroplating applications, plus wastewater containing HF, providing a useful life many times longer than standard pH glass sensors in the presence of acidic fluorides. Like the standard SP200, these sensors are designed for extended service life in harsh applications and are compatible with many pre-existing housings and instrumentations.

The electrode design incorporates the Broadley-James Double Junction Reference System, a reliable method of preventing fouling of the reference by contaminants in the process stream.

A sealed reference design means no maintenance of electrolyte. For the SP200 body series the viscous electrolyte allows the HF-resistant electrode to operate effectively at pressures up to 10 bar! This design is also temperature resistant, with an operating range of -5 to 100 °C.

Just like our other series of pH electrodes and sensors, these are designed to work with Broadley-James transmitters as well as other brands of existing pH instruments and cables.

EURO-STANDARD PG13.5 CAP STYLE

100% QUALITY ASSURANCE & QUALITY CONTROL

EXTENDED LIFE IN HF SERVICE

REDUCED DOWN-TIME & MAINTENANCE



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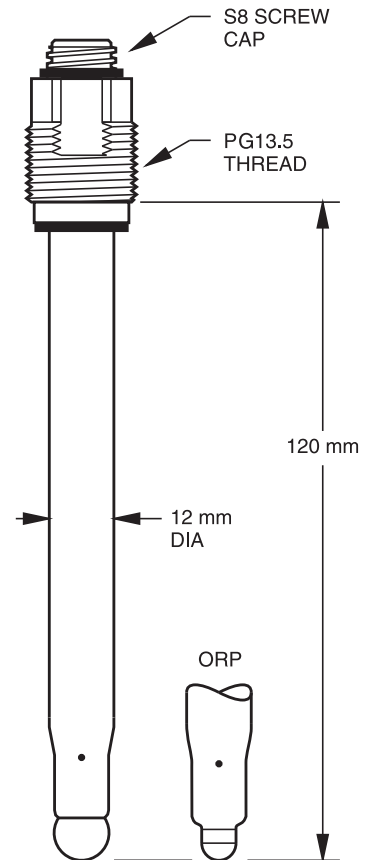
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Fluoride Resistant pH 12 mm Glass ProcessProbe®

Measurement Principle :	Potentiometric
pH Bulb:	HF-Resistant
Reference:	Silver / Silver Chloride (Ag/AgCl)
Reference Junction:	Precision made junction of specially formulated low porosity ceramic
Electrolyte:	3.8 Molar Potassium Chloride (KCl) Gel
Isopotential Point:	pH 7
Output Signal per pH Unit @ 25° C:	Approximately 59 millivolts
*Assymetry Potential:	0mV ± 20mV
Temperature Range:	
SP100 Series	Operation: 0 to 80° C
SP200 Series	Operation: -5 to 110° C
*Stability:	Drift of less than 0.002 pH over 24 hours at constant temperature & pressure.
*Response Time at:	98% of readout in
25° C	less than 15 seconds
37° C	less than 10 seconds
Max Pressure:	
SP200 Series	10 bar (atm.), 150 psig
Connector:	Standard Pg13.5 threaded cap with -S8 cable attachment. O-ring sealed.
Wetted Materials:	
SP200 Series	Glass, Ceramic

*Under Laboratory Conditions



Standard Parts:

SP200 Series ProcessProbe® Sensors		
Part Number	Length	Type
SP200-2530-DH	120mm	HF-Resistant pH

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Water Quality Problems?



Get Back In Control

Broadley James ProcessProbe®
pH & Dissolved Oxygen Sensors