

Model S400 ProcessProbe® pH and ORP Sensors with Bulb Guard

Applications

In-Line and Submersion

Description

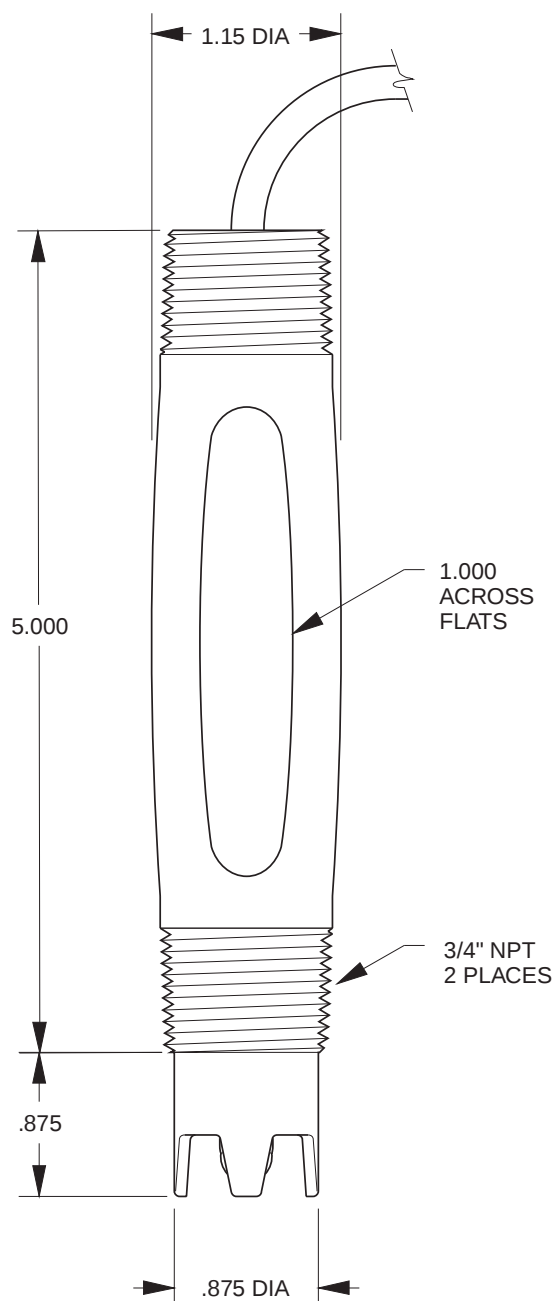
The S400 is a sealed sensor designed for rugged service in submersion or on-line applications. The body, with an integral 3/4" NPT insertion thread, is molded from chemical-resistant Ryton® (PPS) and the reference junction is porous Teflon®. The Double Junction Reference system reliably prevents process contaminants from fouling the reference and is highly resistant to poisoning. A bulb guard on the front of the sensor protects the sensor tip from impact. The S400 features built-in solution ground and temperature compensation in addition to custom cable lengths and a choice of connectors.

Options Include

- Built-in temperature compensation
- Built-in solution ground
- Custom cable lengths
- Choice of cable connectors

SPECIFICATIONS

pH Range	0–14 pH
ORP Range	± 5000 mV
Temp Range	0–105°C
Max Pressure/Temp	150 psig at 100°C
Reference	Ag/AgCl
Wetted Materials	Ryton, Teflon, and Glass
Standard Cable Length	10 feet
Maximum Flow Rate	10 ft (3 m) per second
Output Impedance	<250 megohms at 25°C
Insertion Threads	3/4" NPT



Manufacturers of pH & DO Sensors for Science and Industry
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**BROADLEY
JAMES**
CORPORATION

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Part Number Selection Guide

Specify ProcessProbe® Part Number here:

Category Position:
S-4 - -

OPTIONS:

1 - 2 Body Style:

[00] Standard Insertion, Guarded Bulb, 3/4" NPT. Not available w/Flat Bulb or Recessed

3 Body Material:

[R] Ryton®
 [G] Grounded *(see note below)

4 Liquid Junction:

[T] Coaxial Teflon®

5 - 6 Measurement Electrode:

[33] pH, HT-3 Rugged Dome Bulb
 [43] pH, HT-4 High pH Bulb (for pH 13 and above)
 [PB] ORP, Platinum Band

7 Temperature Compensator:

[0] T.C. not required
 [1] 3K Ohms, used on older models of TBI/Bailey and Uniloc transmitters
 [D] Pt 1000 Ohms for Rosemount (Uniloc) Model, 1054, Beckman SoluComp, TBI/Bailey TB82 and TB84, Foxboro Models 870 and 874, Yokogawa and many European models
 [H] Pt 1000 Ohms for Yokogawa, Conducta, Polymetron and many European models

8 Cable Type:

[A] 3 mm Low Noise Coax, for pH without built-in TC, or for ORP
 [M] 5 mm Low Noise Coax, for pH without built-in TC, or for ORP
 [E] Jacketed coax w/ T.C. leads
 [N] Jacketed coax w/ T.C. and solution ground leads

9 - 10 Cable Length:

[10] 10 ft - standard length
 [XX] Specify length (in feet) if other than standard (see above for price adder per foot)

11 - 12 Sensor Connectors:

[BC] BNC only (for use with ORP electrodes or with sensors w/o TC or solution ground)
 [FB] BNC for pH and Ferrules on all other leads (for use with Terminal Block or Terminal Strip)
 [FF] All Ferrules connectors (for use with Terminal Block or Terminal Strip)



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