

High Purity Water pH Sensor with pHaser Flowing Junction



- “pHaser” laser drilled reference junction ensures constant electrolyte flow for unsurpassed performance

- ACCURATE AND STABLE pH measurement in condensate and boiler feed water
- RUGGED pH sensor with variopol connector
- SHIELDED GLASS ELECTRODE protects against electrostatic noise pickup
- INTEGRAL SOLUTION GROUND/thermowell for stable measurement and fast temperature response
- CONVENIENT BUFFER CALIBRATION CUP HOLDER



FEATURES AND APPLICATIONS

The Rosemount Analytical Model 3200HP pH sensor is designed for the accurate measurement of pH in low conductivity, high purity (HP) water. High purity water applications exist in the Power, Pharmaceutical, F&B and Semiconductor industries. Boilers, both industrial and at power plants also provide several points where low conductivity pH measurements are necessary. The key to an accurate measurement is a stable reference electrode that produces the same potential over many months of service whether in calibrating solutions or high purity water.

The 3200HP sensor is a panel mounted system consisting of an electrolyte reservoir, a flow cell, a combination pH, reference, temperature sensor with integral solution ground and a calibration cup holder. The flowing

reference electrode uses a laser drilled capillary for the liquid junction, the pHaser reference junction.

The pHaser reference electrode is unaffected by the conductivity changes that occur when the sensor is moved between calibration buffers and low conductivity water, it continues to produce the same potential. The laser drilled capillary design is immune to drift caused by the long term plugging common to all ceramic reference junctions. A 100 ohm platinum RTD is housed in a 316 SS solution ground near the pH glass electrode assuring a fast and accurate temperature compensation. These features combined with the rapid response and stability of the AccuGlass pH electrode provides an unsurpassed level of performance in high purity water.

OPERATION

Calibrations are easily accomplished by simply loosening the sensor union nut and moving the 3200HP from the flow cell to the supplied buffer cup, complete the calibration and return the sensor to the flow cell. As in many pH applications, in high purity water the reference electrode wears out long before the glass electrode fails. The reference electrode of the 3200HP is rebuildable. The pHaser liquid junction is easily replaced and the electrolyte reservoir is refillable. The reservoir typically provides greater than 2 months trouble free service between refills.

SENSOR SPECIFICATIONS

Style: Flow-through

Wetted Materials: CPVC, Silicone, polycarbonate/ polyester, glass, stainless steel, Viton¹

Sample Temperature: 4°C to 71°C (39°F to 160°F)

Sample Pressure Required: 5 to 10 psig – drain to atmosphere

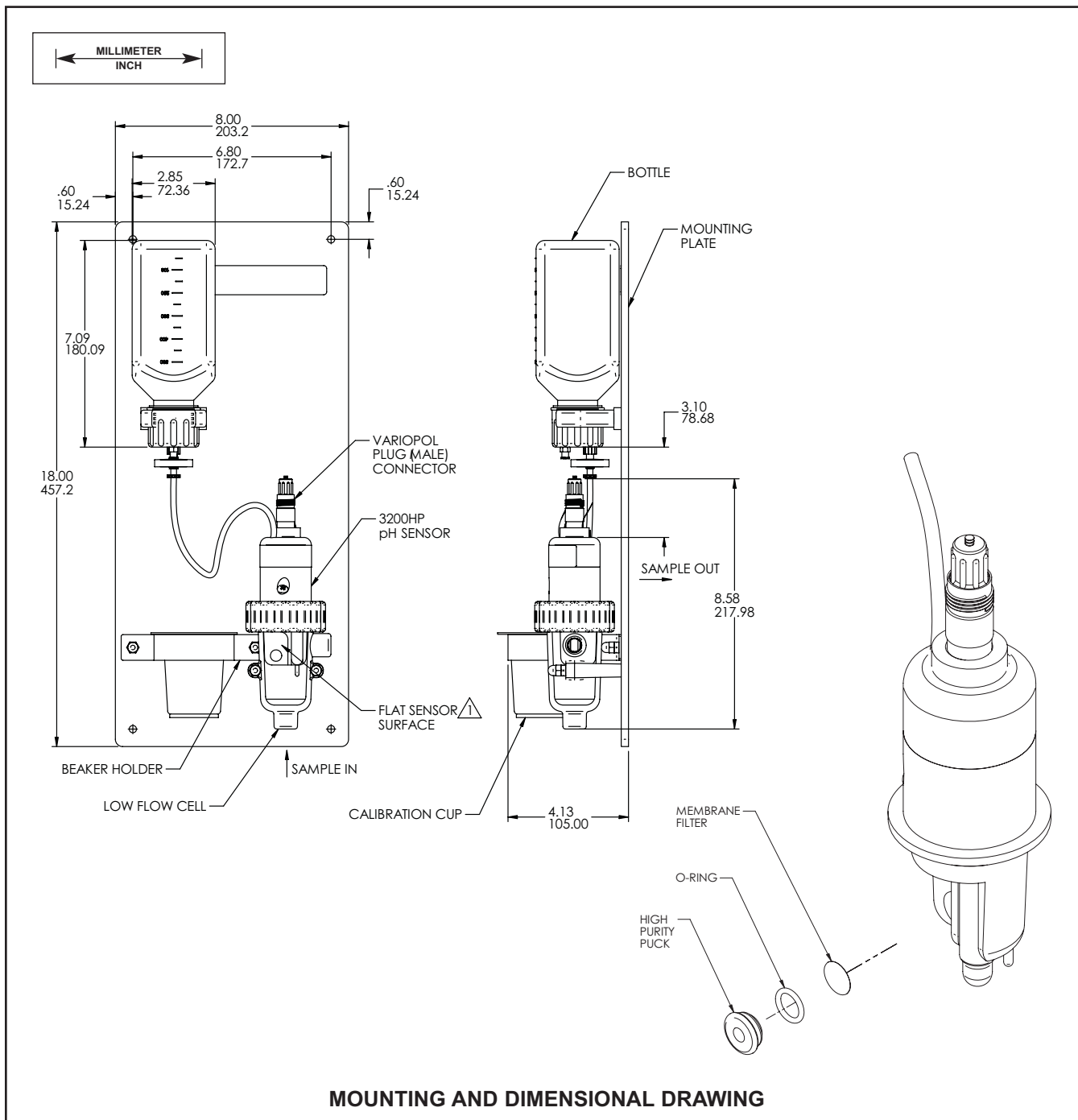
Sample Flow Rate: 50 to 200 ml/min

Process Connections: 1/4 in. tube

Reference Electrode: Flowing, double junction

Weight/Shipping Weight: 9.8 lb/11.0 lb (4.4kg/5.0kg)

¹ Viton is a registered trademark of DuPont Performance Elastomers.



ORDERING INFORMATION

Model 3200HP Flowing Junction pH Sensor. Designed for use in condensate, boiler feedwater and boiler water. The sensor assembly includes a low flow cell, a reference electrolyte reservoir and a disposable pH sensor. All components are mounted on an ABS plate which is suitable for wall mounting. VP interconnecting cable from sensor to the instruments is also included. Compatible with most Rosemount Analytical pH Transmitters and Analyzers.

MODEL 3200HP FLOWING JUNCTION pH SENSOR	
Code	VP Cable Selection
01	Complete panel with 10' VP cable and sensor
02	Complete panel with 20' VP cable and sensor
03	Complete panel with 30' VP cable and sensor
3200HP	01

EXAMPLE



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