8362sc HIGH PURITY WATER pH OR ORP PANEL

The Ultimate in pH/ORP Measurement Accuracy

The Hach 8362sc High Purity Water pH/ORP Panel is designed for use in electric power generation, industrial boiler, pharmaceutical, microelectronics, and other applications that require excellent accuracy when measuring pH or ORP in high purity water.

Self-Pressurizing Electrodes

The 8362sc High Purity Water pH/ORP Panel uses a self-pressurizing reference electrode that introduces a constant flow of electrolyte into the sample stream. Constant flow of electrolyte reduces the effects of electrolyte oscillations that cause reference junction potential phase shifts that are found in other measuring systems.

Unique Construction

The housing for the electrodes is made of electro-polished stainless steel and polymethyl metacrylate (PMMA). The unique conductive flow chamber greatly reduces the effects of streaming currents that cause drift in pH/ORP measurements in high purity water. Stainless steel provides long life and maximum measurement integrity; it does not corrode in aggressive high purity water. The entire system is grounded and shields the measuring electrode from EMI and RFI interference.

Complete System for Simple and Fast Operation

The sample panel is pre-plumbed and includes the pH or ORP sensor, digital electronics junction box, flow meter, and 7.7 m (25 ft.) digital interconnect cable. Simply attach the sample line, drain, and interconnect cable to any Hach Digital Controller, turn on the sample flow, and the system is in operation.

Easy Setup and Maintenance

The self-pressurizing electrode is ready to operate and requires no maintenance or refilling of electrolyte reservoirs between normal electrode replacements. For optimal performance, the electrode should be replaced once a year.

Accurate Temperature Measurement

Accuracy of temperature is critical for high purity water algorithms for measuring pH or ORP. Temperature is measured with a 100 ohm platinum RTD that is accurate to 0.1°C. A stainless steel sheath provides grounding of the sample at the electrode to reduce the effects of streaming currents.

Stainless Steel Construction

All stainless steel construction provides long life and maximum measurement integrity. Stainless steel does not corrode in aggressive high-purity water. The entire system is grounded and shields the measuring electrode from EMI and RFI interference.
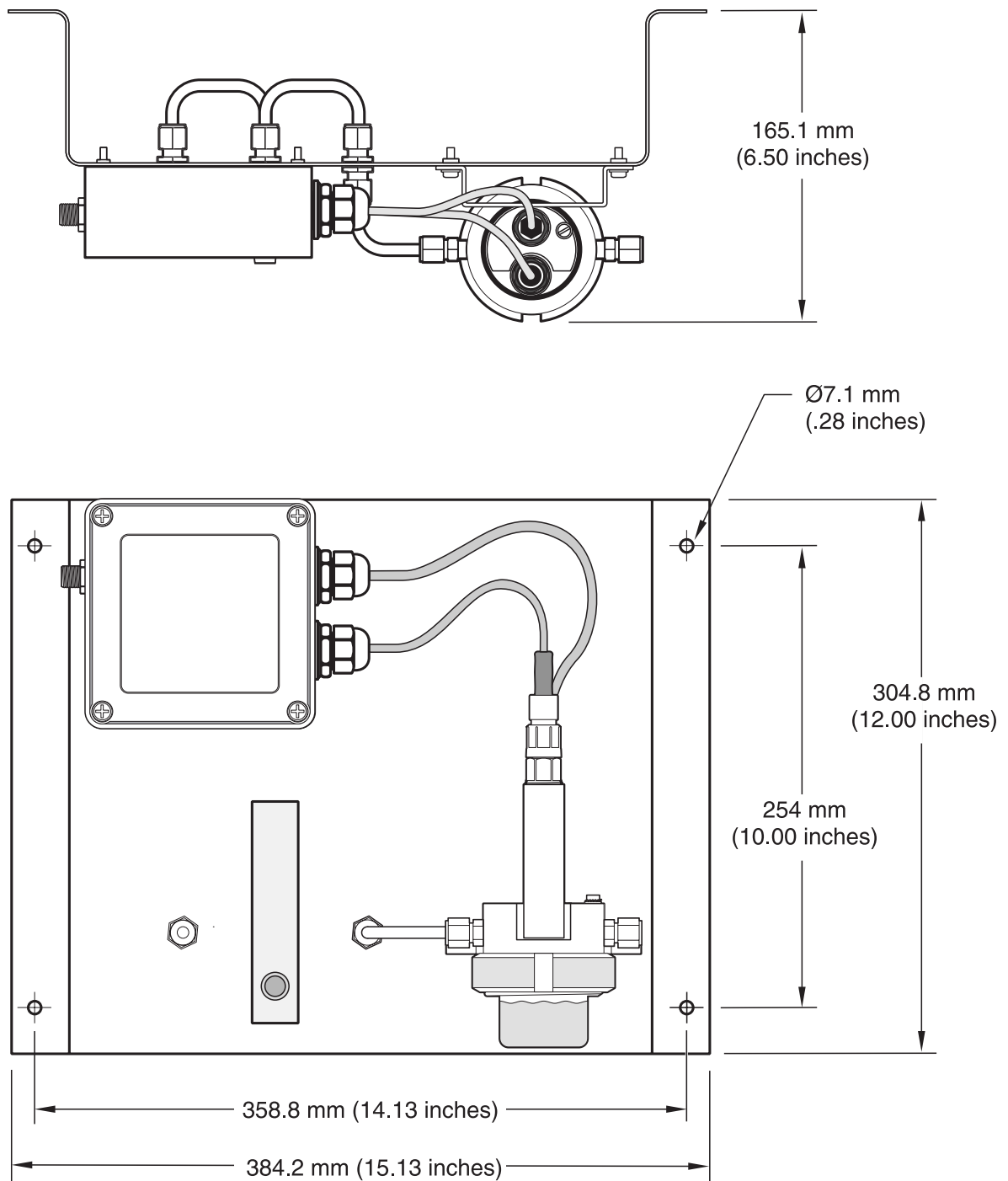
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Specifications*

	pH	ORP
Measurement Range at 0 to 80°C (32 to 176°F)	2 to 12 pH	-1500 to +1500 mV
Accuracy	±0.05 pH at 25°C above 1 µS/cm (constant flow) ±0.1 pH at 25°C below 1 µS/cm (constant flow)	±3 mV at 25°C (constant flow)
Repeatability	0.01 pH at 25°C (constant flow)	±2 mV at 25°C (constant flow)
Temperature Accuracy	0.1°C between 0 to 80°C (32 to 176°F)	
Components	316 stainless steel back panel with pH or ORP sensor, flowmeter, and junction box Temperature probe: Pt100	
Operating Conditions	Temperature: 0 to 60°C (32 to 140°F) Humidity: 0 to 100%, non-condensing Flow rate: 100 to 300 mL/min (100 to 300 cc/min) Pressure: 4 bar at 25°C (58 psi), maximum	
Dimensions	304.8 x 384.2 x 165.1 mm (12.0 x 15.1 x 6.5 in.)	
Weight	3.6 kg (8 lb.)	
Cable Length	7.7 m (25 ft.), supplied	

Subject to change without notice.

Dimensions

Mount the Hach 8362sc High Purity Water pH or ORP Panel to a wall or other hard and stable surface.

165.1 mm
(6.50 inches)

Ø7.1 mm
(.28 inches)

304.8 mm
(12.00 inches)

254 mm
(10.00 inches)

358.8 mm (14.13 inches)

384.2 mm (15.13 inches)

Ordering Information

6178000   8362sc High Purity Water pH Panel
Includes pH sensor, digital electronics junction box, flow meter, and 7.7 m (25 ft.) digital interconnect cable.

6178001   8362sc High Purity Water ORP System
Includes ORP sensor, digital electronics junction box, flow meter, and 7.7 m (25 ft.) digital interconnect cable.

Optional Extension Cables

Extension cables may be required for connecting the 8362sc High Purity Water pH/ORP System to the Hach Digital Controller.

6122400   Extension cable, 1 m (3.2 ft.)

5796000   Extension cable, 7.6 m (25 ft.)

5796100   Extension cable, 15.2 m (50 ft.)

5796200   Extension cable, 30.5 m (100 ft.)

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