

HPW7000 Hi-pHurity Water Measurement System Specification

Overview

The HPW7000 Hi-pHurity Water pH Measurement System is an electrode mounting assembly designed specifically for the difficult pH measurement in high purity water applications. The special flow chamber and electrode mounting simplifies installation and calibration while providing a pH measurement that is unsurpassed in accuracy and stability.

Description

The HPW7000 combines a specially designed stainless steel stainless steel flow chamber with a measuring/reference electrode system and integral temperature sensor/solution ground. This mounting assembly provides accurate and stable pH measurement in low conductivity (<10 $\mu\text{mho/cm}$) water.

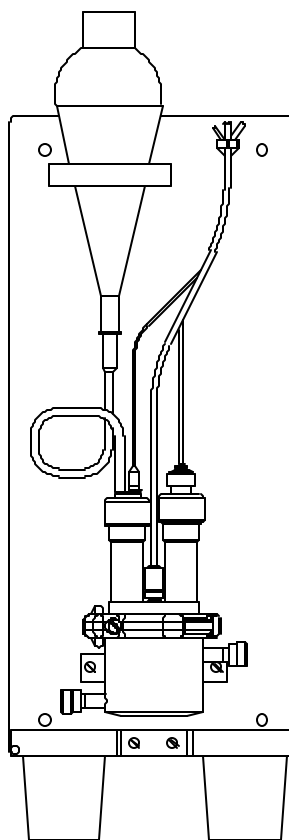
The specially designed flow chamber optimizes the sample flow volume and creates the

proper flow and mixing patterns to make the most accurate and stable pH measurement. In addition, the assembly installation is foolproof. The flow chamber cover is keyed and the electrode position is fixed so that the user will continue to get the same superior measurement results every time a calibration or replacement is done. A quick opening clamp holds the electrodes in place in the flow chamber. Removing and re-

Installing the electrodes for calibration is quick and easy with this clamp mechanism.

A flowing reference electrode is used to provide high accuracy and minimize calibration offset errors. A new flowing reference electrode design uses less electrolyte and does not require a large head pressure. This makes the mounting more compact in water sample panels where space is at a premium.

Electrode cables of up to 36 feet eliminate the need for mounting preamplifiers on the assembly. All electrode terminations are internal to the analyzer and are protected by the analyzer case. The electrode cables are all shielded to reduce the susceptibility to noise and make the measurement more stable.



**High Purity Electrode Mounting Assembly
(Panel Mounted Option)**

Features

- Designed for high purity water applications, <10 $\mu\text{mho/cm}$ conductivity
- Easy to install and ensures correct operation and maximum performance
- Reduces calibration and maintenance time and cost with a quick disconnect clamp top cover that allows the electrode assembly to be easily removed without tools or special instructions
- Lower maintenance cost and higher availability with a new reference electrode that is easy to fill and does not require any special tools or instructions
- Unsurpassed stability
- Minimal long term drift
- Minimizes calibration errors
- Small assembly that can be panel or surfaced mounted
- Improved temperature sensitivity
- Sample flows 50-500 cc/min

Specifications

pH Range (operating)	0 – 14 pH (4 to 10 pH)
Temperature Sensor	-20 to 150°C
Conductivity Range	< 10 $\mu\text{mhos.cm}$
Accuracy	± 0.1 pH
Noise	<0.1 pH
Stability/Drift	± 0.1 pH/wk
Preamp	In 9782 or 7082
Process Connection	1/4" male - side mounted on flow assembly
Pressure	Downstream back pressure –10" W.C. (min), +1.0" W.C. (max)
Temperature	Assembly: 10° - 45°C Electrodes: 10° - 80°C
Flow Assembly	316 LSS
Electrode Covers	316 LSS
Finish	150 grit polish minimum

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