

ROSS® pH Electrodes

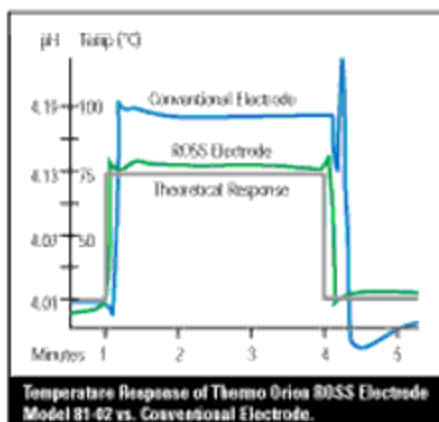
The combination of benefits in the ROSS Line cannot be found in any other pH electrode line. Before you make your next buying decision, consider these advantages:

Faster Response

If you are measuring samples that vary in temperature, or differ in temperature from your calibrating buffers, the ROSS Electrode's special internal system provides superior measurement stability, faster response, greater accuracy and more reproducible results than conventional electrodes. With ROSS Electrodes you avoid long-term drift or inaccurate readings, even in samples that vary in temperature, while conventional electrodes produce unstable results until they reach thermal equilibrium with the sample.

Temperature Response

The typical results in the graph below show how ROSS Electrodes respond versus the best of conventional pH electrodes. In this case, both electrodes were taken from a pH 4.01 buffer solution at 25 °C and placed in the same buffer at 75 °C. The ROSS Electrode almost immediately reported the correct value of the buffer, pH 4.13, at the new temperature. After three minutes, the conventional electrode had just started to move toward the 4.13 mark. When both electrodes were put back in the 25 °C buffer, the ROSS Electrode read 4.01 again in less than 30 seconds while the other electrode was considerably in error. The ROSS Electrode continues to perform fast reproducibly and accurately after many, many dramatic temperature changes.



Sure-Flow® Junction

The unique, free-flowing liquid-to-liquid junction assures you of the most stable, drift-free measurements. The easy-to-clean junction never clogs—simply press the cap and flush the junction area. Release the cap and the junction is reset. Now

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even the most problematic, dirty or viscous samples can be easily measured without a clogged junction!

No Sample Contamination

Conventional electrodes can leach metal ions into the filling solution and subsequently into the sample. ROSS Electrodes do not contain silver or mercury to react with the sample or clog the ceramic frit. Use ROSS pH Electrodes where trace amounts of metal ions, in such samples as biological media, foodstuffs, and pharmaceuticals, cannot be tolerated.

Double Junction Design

This construction allows you more control over an important variable. Use a filling solution that is similar to the sample in order to minimize junction potential problems in high or low pH samples or non-aqueous solutions. Also change the filling solution to minimize contamination when potassium or chloride in the sample is undesirable.

Best for Routine pH

Use ROSS Electrodes as your standard for all routine pH determinations. They will provide accurate, stable, fast, and reproducible results.