

Common Measurement Problems And Simple Possible Causes

<p>READINGS ARE NOT REPRODUCIBLE</p>	<p>Is there sample carryover?</p> <p>Are there sample interferences or complexing agents present?</p> <p>Is the reference electrode junction contaminated?</p>
<p>SLOW RESPONSE (READINGS SLOWLY CHANGING)</p>	<p>Was the electrode stored in the wrong solution?</p> <p>Was the electrode poisoned by the sample?</p>
<p>OUT OF RANGE READING</p>	<p>Is the electrode plugged into the controller properly?</p> <p>Is there a reference electrode present?</p> <p>Is there enough fill solution left in the reference electrode?</p> <p>Is the electrode placed in the sample solution?</p>
<p>LOW SLOPE OR NO SLOPE</p>	<p>Are the standards too old, contaminated, or made wrong?</p> <p>Has the sample pH been adjusted properly to the operating range of the electrode?</p> <p>Is there an air bubble on electrode surface?</p> <p>Is the controller okay?</p> <p>Is there enough fill solution left in the reference electrode?</p>
<p>NOISY RESPONSE (READINGS RANDOMLY CHANGING)</p>	<p>Is the controller grounded?</p> <p>Is there an air bubble on electrode surface?</p> <p>Is the controller operating properly?</p> <p>Is there enough fill solution left in the reference electrode?</p>
<p>DRIFTY RESPONSE (READINGS CONTINUOUSLY CHANGING)</p>	<p>Is there excessive leaking at the reference electrode junction?</p> <p>Is the reference electrode junction clogged?</p> <p>Was the sensing membrane poisoned by the sample?</p>

	<p>Are there temperature problems?</p> <p>Is the sample too concentrated?</p> <p>Does the sensing membrane need conditioning?</p>
<p>INACCURATE READINGS (BUT CALIBRATION IS OK)</p>	<p>Are the standards incorrect?</p> <p>Was the sample pH adjusted properly?</p> <p>Is there sample carryover?</p> <p>Are there sample interferences or complexing agents present?</p>