

Signet

3-8750 pH/ORP Controller Troubleshooting Guide

Display Condition	Possible causes	Suggested Solutions
During EasyCal: "Out of Range Use Manual CAL"	<ol style="list-style-type: none"> 1. Required 4, 7 or 10 buffers not being used. 2. Sensor is depleted too severely to use EasyCal. 	<ol style="list-style-type: none"> 1. Use pH 4, 7, 10 buffers. 2. Clean probe and retry EASY CAL. 3. Use Manual calibration for Standard and Slope if mV offset exceeds 50 mV.
During EasyCal: "Same Buffer"	<ol style="list-style-type: none"> 1. Sensor was not moved from buffer #1 to buffer #2. 2. Buffer is contaminated 	<ol style="list-style-type: none"> 1. Place sensor in correct buffer solution. 2. Use fresh buffer.
During CALIBRATE Std: "Standard too close to Slope!"	<ol style="list-style-type: none"> 1. pH Standard value within 2 pH units of Slope value. 2. pH Sensor efficiency is inadequate. 	<ol style="list-style-type: none"> 1. Use pH values at least 2 pH units apart. 2. Clean pH sensor; replace if necessary. 3. Use fresh buffer.
During CALIBRATE Slope: "Slope too close to Standard!"	<ol style="list-style-type: none"> 1. pH Slope value within 2 pH units of Standard value. 2. pH Sensor efficiency is inadequate. 	<ol style="list-style-type: none"> 1. Use pH values at least 2 pH units apart. 2. Clean pH sensor; replace if necessary 3. Use fresh buffer.
During CALIBRATE: "Out of Range Check Sensor"	<ol style="list-style-type: none"> 1. No temperature or mV signal from sensor detected. 2. No connection between pH sensor and preamplifier. 	<ol style="list-style-type: none"> 1. Check all wiring, contacts in preamplifier. 2. Verify sensor is securely installed. 3. Replace electrode pH sensor.
During normal operation: Constant "15.00 pH" or constant "0.00 pH" with good temp value	mV input is less than 0 pH or greater than 15 pH.	<ol style="list-style-type: none"> 1. Recalibrate system. 2. Replace pH sensor. 3. Replace preamplifier.
During normal operation: "Check Sensor?"	<ol style="list-style-type: none"> 1. No temperature or mV signal from sensor detected. 2. No connection between pH sensor and preamplifier. 	<ol style="list-style-type: none"> 1. Check all wiring, contacts in preamplifier. 2. Verify sensor is securely installed. 3. Replace pH sensor.

The mV value from the sensor when placed in a 7 pH buffer represents the sensor offset. Signet recommends servicing/replacing the sensor when the offset exceeds 50 mV.