

## Signet

# 3-2850 Conductivity Transmitter Troubleshooting Guide

LED and Output Condition	Possible Causes	Suggested Solutions
<b>Current Out:</b> <b>LED off, current output is 22 mA</b>  <b>(S<sup>3</sup>L) out: "Check Sensor"</b>	<ul style="list-style-type: none"> <li>• SW3 and SW4 set to all OPEN (factory setting).</li> <li>• No electrode installed.</li> <li>• SW3 (and SW4) not set correctly.</li> <li>• System not ready.</li> </ul>	<ul style="list-style-type: none"> <li>• Normal for new system.</li> <li>• Install electrode.</li> <li>• Set SW3 and SW4 correctly.</li> <li>• Retry (recycle power).</li> </ul>
<b>During EasyCal, the LED blinks rapidly for 4 seconds.</b>	<ul style="list-style-type: none"> <li>• Measured value of the test solution is outside the <math>\pm 10\%</math> tolerance.</li> <li>• The electronics or the electrode is defective.</li> </ul>	<ul style="list-style-type: none"> <li>• Use fresh test solutions and restart the calibration.</li> <li>• Replace the electronics or the electrode.</li> </ul>
<b>After completing calibration procedure, the output values are inaccurate.</b>	<ul style="list-style-type: none"> <li>• Insufficient time allowed for electrode stabilization during calibration procedure.</li> <li>• Test solutions are contaminated.</li> <li>• EasyCal performed with temp comp OFF, then temp comp turned ON for measurement. (or vice versa)</li> </ul>	<ul style="list-style-type: none"> <li>• Recalibrate and wait at least 2 minutes after placing electrode in solution before pressing SW1.</li> <li>• Use fresh test solutions and restart the calibration.</li> </ul>
<b>The output of the 2850 indicates a value that is off by a factor of 10 (ie: 10x, 100x the correct value)</b>	<ul style="list-style-type: none"> <li>• The cell constant selection on the 2850 (SW3 or SW4) does not match the actual input.</li> </ul>	<ul style="list-style-type: none"> <li>• Match the 2850 switch settings to agree with the sensor being used.</li> </ul>