

## Signet 3-5900 Salinity Monitor Troubleshooting Guide

Display	Problem	Solution
1. 0.0 /PPT ----- °C or ----- PPT ----- °C	Temperature wiring shorted or temperature element in sensor bad.	A) Verify sensor wiring. B) Verify instrument temperature input: <ul style="list-style-type: none"> <li>Remove Black and White sensor wires from rear Temp. IN and Iso. Gnd terminals, then place a 1100 Ω resistor across terminals.</li> <li>Power instrument and verify approximately 26.0°C (79°F) on display. If instrument reads correctly, replace sensor. If error condition persists, instrument requires factory service.</li> </ul>
2. 0.0 PPT 25.0°C	A) Sensor not connected or improperly connected. B) Pipe empty or sensor not in solution. C) Wrong range selected. D) TC% set incorrectly for process temperature. E) Sensor wiring open. F) Water too cold for high-purity water measurement.	A) Verify sensor wiring B) Fill pipe or place sensor in process solution. C) Choose a sensor with cell constant adequate for process solution. D) Set TC% to 2% E) Replace sensor F) See specifications section for recommended high-purity range and temperature requirements.
3. ----- PPT 25.0°C	A) Sensor not connected or improperly connected. B) Wrong range selected. (cell constant too large) C) TC% set incorrectly for process temperature.	A) Verify sensor wiring including cable splice; cable shield must continue through splice. B) Choose a sensor with cell constant adequate for process solution. C) Set TC% to 2%.
4. Too Much Error Check Sensor	Temperature input out of tolerance during WET CAL procedure.	Exit WET CAL procedure by pressing UP and DOWN arrow keys simultaneously, then refer to solution steps 1B above to verify sensor temperature input.
5. Reset to Factory Calibration	Zero entered as solution conductance or resistance during WET CAL step 2.	Measured conductivity, resistivity or PPT entered as zero during WET CAL step 2. Operator can enter zero to quickly recall factory defaults.
6. SETUP READ ERROR Press any key	Power fault occurred while saving setup menu entry.	Press any key to reload factory defaults then reprogram conductivity system setup parameters.