

Signet

3-8850 Conductivity Transmitter Troubleshooting Guide

Display Condition	Possible Causes	Suggested Solutions
"----"	Display is over range. This may be a normal condition if your process operates at/near the limits of the sensor range.	<ul style="list-style-type: none"> • Check sensor for correct range. • Check Decimal setting in OPTIONS menu. • Check Calibrate menu settings for incompatible SOURCE and RANGE values.
Value Must be less than 3	The PPM factor must be a value from 0.00 to 3.00	Set a PPM value less than 3.
Value must be greater than 0	Custom cell constant cannot be set to 0	Set cell constant to a value greater than 0
"Value must be 400 or less"	Pulse Rate cannot be greater than 400	set a pulse rate value less than 400
Display erratic, shows "0" or "-----" intermittently	Aux Power not connected	Wire 8850 according to diagram (Section 3.1)
"Too much Error Check Sensor"	<ul style="list-style-type: none"> • Defective or dirty/coated sensor • Wiring error • Fluid conductivity too low • Defective temp element 	<ul style="list-style-type: none"> • Clean or replace sensor • Check and correct wiring • Replace sensor

Technical notes

If a Current Loop is locked at 3.6 mA, the problem is related to the temperature circuit:

This occurs only if the 8850 detects a resistance from the temperature sensor that is less than 250Ω or greater than 2800Ω.

- Check the sensor wiring for open/short or poor connections on white (TEMP IN) and black (ISO GND)wires.
- The PT1000 temperature device in the sensor is defective.
- The transmitter is defective.

Auxiliary Power (terminals 1 and 2) must ALWAYS be connected for the 8850 to operate.