

Signet

3-8860 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.	Check sensor for correct range. Check Decimal setting in OPTIONS menu. Check Calibrate menu settings for incompatible SOURCE and RANGE values.
"Value Must be 100 or less"	The menu item being set is a percentage value and must be less than 100.	Select a value from 0 to 100.
"Value must be more than 0"	The menu item being set cannot be zero or a negative value.	Select a value greater than zero.
"Value must be 400 or less"	The Pulse Rate for Relay and Open Collector outputs cannot be greater than 400 pulses per minute.	Select a pulse rate less than 400
"Reset to Factory Calibration"	A value of "0" is being set into ".. Set: Conductivity" menu item.	This will remove any user calibration from the "..Set Conductivity" and "..Set Temperature" items in the Calibrate menu.
"Too Much Error CHECK SENSOR"	The calibration offset entered is beyond the allowable tolerances of the instrument.	Check calibration procedure for accuracy. Check sensor for proper operation. Check any cable extensions for poor splices or termination.

Technical Note

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

This occurs only if the 8860 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.