

## TROUBLESHOOTING

| Problem                                       | Possible Causes   | Check/Remedy  |
|---|---|---|
| No output                                     | No power<br>Blown fuse  | Check supply voltage.<br>Check fuse.  |
| Output cannot be set to 4mA                   | Too much absorbed light<br><br>Poor sensor connections or incorrect wiring<br>Sensor leads not insulated from body of sensor or conduit<br>Wet connection in converter or sensor housings<br>No power to sensor<br><br>Faulty sensor lamp or defective sensor/transmitter | Place sensor in clean water to set Zero.<br>Check connections and wiring.<br><br>Check sensor wires.<br><br>Look for water or condensate on connections.<br>Voltage should be between 11 & 26 VDC on power terminals.<br>If the proper voltage (11-26 VDC) is on power terminals and the lamp in the sensor is not on, then the lamp, lamp wiring or sensor circuit board has failed. |
| Output does not change and indication is high | Faulty sensor lamp  | Check to see if sensor lamp is on. If lamp is off, check voltage across power terminals in sensor. If the proper voltage (11-26 VDC) is on the terminals and the lamp in the sensor is not on, then the lamp, lamp wiring or sensor circuit board has failed.   |
| Unstable reading                              | Air bubbles or very large particles in process line<br><br>RFI pickup<br>Heavy Inductive loads  | Take sample and check for bubbles or large particles. If present, relocate sensor.<br>Earth ground sensor properly.<br>Mount sensor away from power cables. Put sensor wires in conduit.  |
| Reading does not agree with lab results       | Improper calibration<br>Lab procedure error<br>Lab instrument error<br>Defective sensor/transmitter   | Recalibrate instrument.<br>Check procedure.<br>Check instrument.<br>Refer to supplier.  |
| Readings drift with time                      | Converter not warmed up<br>Sensor/converter connections wet<br><br>Deposit build-up on sensor   | Warm up converter for 5 minutes.<br>Look for water or condensate on connections. Dry connections.<br>Remove sensor and clean.   |
| Output below 4mA                              | Line is partially or completely empty<br>Improper calibration   | Make sure that water in the line is covering the tip of the sensor.<br>Recalibrate instrument.  |