TROUBLESHOOTING

For Model 850 serial #1243 and higher (sold on or after 6/29/2015)

Problem	Possible Causes	Check/Remedy
No response/meter reading blank	No power Blown fuse	Check power light. Check fuse.
	Faulty sensor bulb	Check to see if sensor lamp is on. If lamp is off, check voltage across terminals 5 & 6 in sensor. If voltage is greater than 10.0 VDC, then
		sensor has failed.
Meter will not zero (high reading)	Too much scattered light	Remove sensor and place in clean water with a cover to shield ambient light.
	Too much ambient light or too much reflected light	Disconnect wires on terminals 5 & 6. If meter still will not zero then ambient light is entering pipe. If meter will zero then too much
		reflected light. Try repositioning the sensor to reduce reflection.
	Poor sensor connections or incorrect wiring	Check connections and wiring.
	Sensor leads not insulated from body of sensor or conduit	Check sensor wires.
	Wet connection in converter or	Look for water or condensate on
	sensor housings	connections.
	Defective sensor/transmitter	Remove all sensor wires at transmitter. If meter will not zero
		turn span full counter clockwise. If meter still will not zero transmitter is bad. If meter will zero, then sensor has possibly failed.
Unstable reading	Air bubbles or very large particles in process line	Take sample and check for bubbles or large particles. If present
	RFI pickup Heavy Inductive loads	relocate sensor. Earth ground instrument properly. Mount instrument away from power cables. Put cables in conduit.
Reading does not agree with lab results	Improper calibration Lab procedure error Lab instrument error Defective sensor	Recalibrate instrument. Check procedure. Check instrument. Refer to supplier.
Readings drift with time	Converter not warmed up Sensor/converter connections wet	Warm up converter for 15 minutes. Look for water or condensate on connections. Dry connections with hair dryer. Then use NEMA 4X enclosure.
	Deposit buildup on sensor	Remove sensor and clean.
Negative readings or negative output	Wet or damp connections Faulty sensor bulb	Dry connections with hair dryer. Then use NEMA 4X enclosure. Check to see if sensor lamp is on. If lamp is off, check voltage across terminals 5 & 6 in sensor. If voltage is greater than 10.0 VDC, then sensor has failed.