



TROUBLE SHOOTING

Symptom: READING IS TOO LOW

CAUSE

- Insufficient air pressure.
- Restrictor plugged.
- Leaks in tubing.

- Diaphragm improperly installed.
- Sensor flange nuts loose.
- Pointer off at ZERO.
- Ratio Relay diaphragm is ruptured.

CORRECTON

- Increase air pressure to 20 PSI (1.4 bar) or more. See Pages 5 & 6.
 - Remove restrictor wire. Check for good air flow.
 - Soap all fittings when product is in tank, or use the Thumb Test. See Page 6.
 - Install new diaphragm.
 - Tight all four flange nuts.
 - Zero Pointer. See Page 6.
 - Disassemble Ratio Relay and install new diaphragm.
-
-

Symptom: READING IS TOO HIGH

CAUSE

- Pointer off at ZERO.
- Tank Tuner off.
- Sensor nozzle plugged.
- Ratio Relay exhaust is plugged.
- Sensor exhaust nozzle misadjusted.
- Water in tubing.

CORRECTION

- Zero pointer. See Page 6.
 - Calibrate per Page 5.
 - Disassemble sensor. Rod out exhaust hole in nozzle.
 - Disassemble Ratio Relay and rod out the exhaust passages.
 - Align nozzle properly. See Page 5.
 - Disconnect tubes at both ends and blow out with high pressure air.
-
-

Symptom: GAUGE POINTER REMAINS ABOVE ZERO WHEN TANK IS EMPTY

CAUSE

- Gauge pointer is off at ZERO.
- Cleaning wire missing from restrictor.
- Sensor nozzle plugged.
- Ratio Relay exhaust is plugged.
- Gauge pointer is loose on its shaft.

- Water in tubing.

CORRECTION

- Zero pointer. See Page 6.
 - Replace wire.
 - Disassemble sensor and rod out exhaust hole in nozzle.
 - Disassemble Ratio Relay and rod out exhaust passages.
 - Press pointer into shaft firmly with finger. Zero pointer per Page 6.
 - Disconnect tubes at both ends and blow out with high pressure air.
-
-

Symptom: GAUGE POINTER IS LOOSE AND WILL NOT RESPOND

CAUSE

- Gauge pinion gear has disengaged from sector gear. Hair spring is wound up.

CORRECTION

- Observe tank gauge gears. Depending on the type of gauge, either remove rear cover plate or front dial plate. Return gauge to Tank Mate or to a gauge repair service.
-
-

Symptom: RATIO RELAY WILL NOT RESPOND WHEN THE TWO EXHAUST PORTS IN KNOB ARE COVERED

CAUSE

- Upper diaphragm is ruptured.
- Nozzle O-ring is missing.

CORRECTION

- Replace upper diaphragm.
 - Replace O-ring.
-
-

Symptom: SYSTEM WILL NOT RESPOND

CAUSE

- No air supply.
- Defective air pressure regulator.

- Plugged restrictors.

- Impurities in the air.

CORRECTION

- Check hook-up to plant air.
 - Remove outlet tubing and verify output air flow. Replace regulator if necessary.
 - Remove cleaning wires. If plug persists, replace entire restrictor.
 - Install air filter/traps in the air supply.
-
-

Symptom: ERRATIC OPERATION

CAUSE

- Water in air lines

CORRECTION

- Blow out air lines with high pressure air.
-
-