

INSTRUCTIONS

LiquiCal/Omnitrol Control Circuit Board

Application

Applies to the conductivity controlled bleed feature on all Omnitrols and LiquiCals manufactured after 9/1/98.

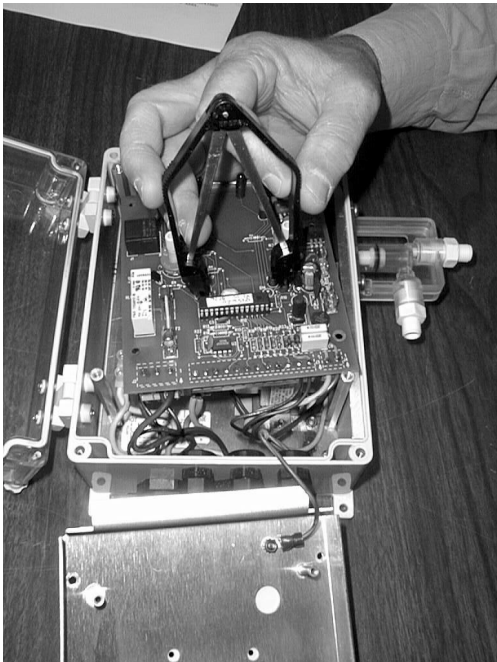
Information

The bleed control feature found in Operating Modes 1,2,7 & 8. has been found to reflect erratic and erroneous conductivity readings. The "Proof of Delivery" function (Modes 7 & 8) will be eliminated due to software problems.

Solution

If you are using Modes 1 or 2, or if you intend to use them, change EPROM on printed circuit board from current version (V1.10 or V1.11) to V2.0. See diagram below. This new software chip will correct the problem associated with Modes 1 & 2. Modes 7 & 8 will no longer be supported. For those using the supplied flow assembly, the chemical injection "T" fitting should be plugged. Locate the chemical injection point downstream from the sample collection point.

For those using Modes 1 & 2 exclusively and needing an immediate fix, version 1.01 software is immediately available.



Instructions for Replacement

1. Turn off power to unit. Note and write down bleed and feed knob settings.
2. Turn bleed and feed adjustment knobs fully clockwise and mark pointer location on front label. A lead pencil works well. Remove knobs carefully.
3. Remove (4) mounting screws and pull out front panel/PCB assembly from enclosure.
4. Remove (4) screws that hold printed circuit board to panel. Turn PCB over. You will now have access to change the EPROM located on the other side of the printed circuit board.
5. Remove V1.10 or V1.11 software (use suitable EPROM removal tool or pry out with screwdriver). Replace with new chip in the upgrade kit. New chip should read "V2.01."



Be sure that the half-round impression on the chip is facing toward "U2" label on PCB. Discard old EPROM.

6. Remount printed circuit board with front panel to enclosure, and reinstall bleed and feed control knobs.



Make sure none of the wires that connect the front panel to the enclosure are pinched between the front panel and the sheet metal enclosure.



Make sure that potentiometers are turned fully clockwise before reinstalling knobs. Align knobs to previous mark (above) on front panel label. Restore bleed and feed knob orientation to original or desired setting. Restore power to unit. Re-calibration will not be necessary as long as all steps above were followed.

Ordering Information

Item # Description

- | | |
|--------|--|
| 099311 | Field Upgrade Kit (V2.01) Available 9/7/99 |
| 097953 | Field Upgrade Kit (V1.01) Available now |

Units can be returned for repair at no charge via Repair Dept. If you have questions, call our Technical Services department at (800) 468-4893.