

# ISOTROL™ 1-8

## REPLACEMENT CIRCUIT BOARD INSTALLATION INSTRUCTIONS

The following defined terms are used throughout this literature to bring attention to the presence of hazards of various risk levels, or to important information concerning the life of the product.

**DANGER**

indicates presence of a hazard which *will* cause *severe* personal injury, death or substantial property damage if ignored.

**CAUTION**

indicates presence of a hazard which *will* or *can* cause *minor* personal injury, death or substantial property damage if ignored.

**WARNING**

indicates presence of a hazard which *can* cause *severe* personal injury, death or substantial property damage if ignored.

**NOTICE**

indicates special instructions on installations, operation, or maintenance which are important but not related to personal injury hazards.

### BEFORE INSTALLATION

**DANGER**

Verify that all sources of power are disconnected from the Isotrol 1-8 before installing this replacement circuit board. **DISCONNECT** and **LOCK** or **TAG OUT** the direct power to the Isotrol circuit, including the external power that may energize the S terminal, as well as all of the dispensers that are terminated to the inputs at TB2. Refer to the Isotrol 1-8 Instruction and Owner's Manual for these wire connections.

- STEP 1:** Remove the lid of the enclosure and retain the sheet metal screw.
- STEP 2:** Disconnect the two leads of the indicator light from the circuit board. Grasp the terminal, not the wire, to avoid pulling the wire from the terminal.
- STEP 3:** Loosen all terminal screws of TB1 and TB2 that have a wire connected and carefully slide the wire out from the terminal screw.
- STEP 4:** Remove the four screws that retain the circuit board in the enclosure and save.
- STEP 5:** Now the old circuit board can be lifted out of the enclosure.
- STEP 6:** Unpack the replacement circuit board from its shipping carton.
- STEP 7:** If a replacement relay kit was not purchased and the original circuit board has a relay installed, it will be necessary to remove the relay from the original circuit board and install it on the replacement. Press the relay firmly into the quick connectors for proper seating. The relay can only be installed in one direction.
- STEP 8:** Locate the four screws removed from the original board and insert each one into the four mounting standoffs on the new board.
- STEP 9:** Place the new circuit board in the enclosure using one of the screws to help locate the mounting holes.
- STEP 10:** Tighten the four mounting screws to retain the circuit board.
- STEP 11:** Re-connect all of the wires to the appropriate terminals of TB1 and TB2.
- STEP 12:** Re-connect the two leads of the indicator light to the terminals A and B on the circuit board.
- STEP 13:** Secure the lid of the enclosure to the base with the sheet metal screw.
- STEP 14:** Energize the power to the circuit board and verify that the indicator light illuminates.
- STEP 15:** Restore power to the dispensers that were disconnected and verify that each input channel responds to the dispenser handle signal(s). Each handle must energize the relay on board or the pump control relay located in another box.

Refer to page 5 of the Isotrol 1-8 Control Box Instruction and Owner's Manual for a troubleshooting guide. Retain this instruction sheet with the equipment after installation for future use.



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