

- PROTECTIVE HEAT SHRINK LOCATION**
- 1) Connect the probes to the liquid level controller.
 - 2) Slide the extra piece of shrink tubing over the connector where it will touch the side of the control.
 - 3) Use a heat gun or other heat source to shrink the tubing around the connector, sealing it from harmful vapors.
 - 4) This shrink tubing will protect the pins inside the connector from corrosion.



7010 Lindsay Dr. • Mentor, OH 44060 • 440-974-1300 • FAX: 440-974-9561 • U.S./Canada: 800-621-1998
 www.processtechnology.com • info@process-technology.com



LC2/LC3 INTRODUCTION AND CONDUCTIVITY CONTROL

The LC2/LC3 Conductivity Level Controls operate on the principle of passing a small AC current (approximately 2 ma.) through a conductive solution. Advanced solid state circuitry senses the presence or absence of solution level by monitoring current flow. When properly applied and maintained, the LC2/LC3 Conductivity Level Control will provide years of reliable level detection.

SPECIFICATIONS

- Input:** 120/208-240 VAC, 1 PH, 50/60 HZ, 5 watts
 - Output:** SPDT 1-(N/O), 1-(N/C), 240 VAC, 10 Amps, 1/2 HP Max. @ 240 VAC
 - Ambient:** 0° to 131°F (-18° to 55°C), 99% RH
 - Sensing:** 14.5 VAC, max 70,000 ohm-CM solution resistance.
 - Probes:** Fluoropolymer sheathed 316 stainless steel, titanium, Hastelloy C® or carbon tipped.
 - Case:** UL Type 1, IP60 flame-retardant plastic.
 - Certification:** UL listed, E190611.
- Hastelloy C® is a registered trademark of Haynes International, Inc.

Warning: Do not use in flammable solutions, in the presence of flammable gases or deionized water service.

GENERAL OPERATION

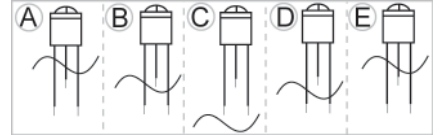
- Ensure all wiring is installed correctly. Apply power to the level control:
- **POWER** light illuminates (red)
 - **LOW LEVEL (LOW LEVEL PUMP UP*)** light illuminates (amber)
 - Alarm sounds (if installed)
 - Heater is inoperative (if installed)
 - Pump or solenoid energizes*
- * LC3 only

ESTABLISH NORMAL LIQUID LEVEL

- Ensure all wiring is installed correctly before establishing liquid level:
- **POWER** light remains illuminated (red)
 - Alarm silences (if installed)
 - Pump or solenoid de-energizes*
 - **LOW LEVEL (LOW LEVEL PUMP UP*)** light extinguishes (amber)
 - Heater energizes on temperature demand (if installed)
- * LC3 only

LC3 OPERATION

- A) Liquid above all probes
Condition: Heater system on, refill off, LC3 output latched on.
- B) Liquid drops below short probe
Condition: Heater system on, refill off, LC3 output latch disabled.
- C) Liquid below all probes
Condition: Heater system off, refill on, LC3 output off.
- D) Liquid returns to longer probes
Condition: Heater system off, refill on, LC3 output latch engaged.
- E) Liquid returns to cover all probes
Condition: Heater system on, refill off, LC3 output latched on.



M-37-02 LC2/LC3 Manual Printing Instructions

Print in black and white.

Print two-sided on 8-1/2" x 14" 24lb paper and fold into "booklet".