

Level control manual

CLSS/CLTI



Introduction

The Conductivity level control operates on the principle of passing a small AC current through a conductive solution. A relay senses the presence or absence of solution level by monitoring current flow. When properly applied and maintained the conductivity level control will provide years of reliable level detection. Please consult dealer or supplier so you have the correct material in your Level control before mounting it in to the tank. Always protect hands and eyes from drops or splash from liquid in tanks.



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

Mounting



Select a protected location on the tank rim for installation of probe assembly (it may be necessary to fabricate a "still chamber" when solution is highly agitated or when foam/ball blankets are being used.) Do not mount under a tank cover

Connecting

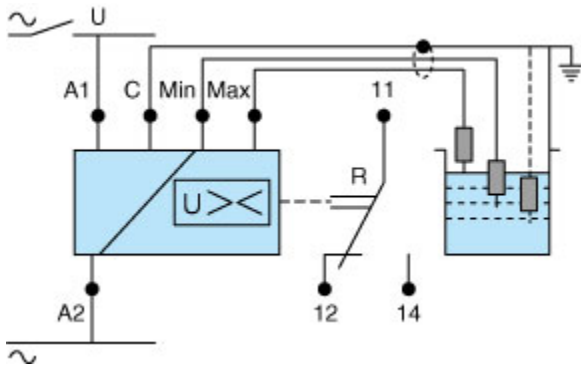


HIGH;LOW,REF



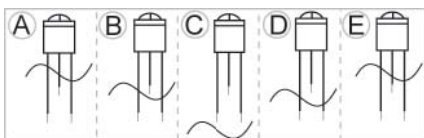
Trim tips to 2mm as pic

Wiring diagram with relay



Level control 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 on 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.



Maintenance

Inspect and clean probe assembly frequently .excessive conductive deposit may cause bridging between the probe and control failure .Inspect and, if necessary,clean probe tips on a monthly basis to avoid calcium and other mineral buildup that creates increased measure resistance. When cleaning only clean the tips and be careful not to damage Teflon sheath. replace probes showing excessive etching.