

# ELWC-1 ELECTRONIC WATER LEVEL CONTROL AND LOW WATER CUT-OFF COMBINATION

## PART NUMBERS:

ELWC-1 CONDUIT MOUNTED  
 ELWC-1LC Probe housing with probes  
 ELWC-1PA Probe set  
 ELWC-CP Control panel  
 SD-1002 Circuit board

## DESCRIPTION:

The ELWC-1 sensing unit monitors the pool water level by making electrically conductive water a part of the control circuit. This sensing assembly consists of a probe housing and a remotely mounted control box. The control box performs two functions. First it activates a solenoid fill valve for water addition when the water level drops to the middle probe. If the water level continues to drop beyond the low probe, the control box interrupts the pump and lighting circuits. The pump and lighting circuit will energize when the water reaches the middle probe during the fill cycle and de-energize the solenoid valve when water reaches the high probe.

## SPECIFICATION:

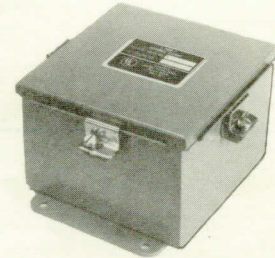
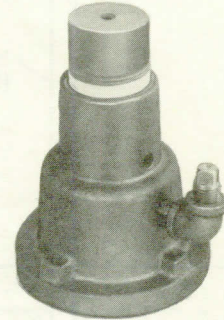
**PROBE HOUSING:** Cast bronze with screw retained cover, 1/2" NPT conduit entry, brass cover plate, NPT air vent.

**PROBES:** Insulated stainless steel with 1/8" stripped from bottom for continuity. Standard length 5 3/8" for high probe 4 3/8" for middle probe and 3 1/4" for low probe from bottom of probe housing.

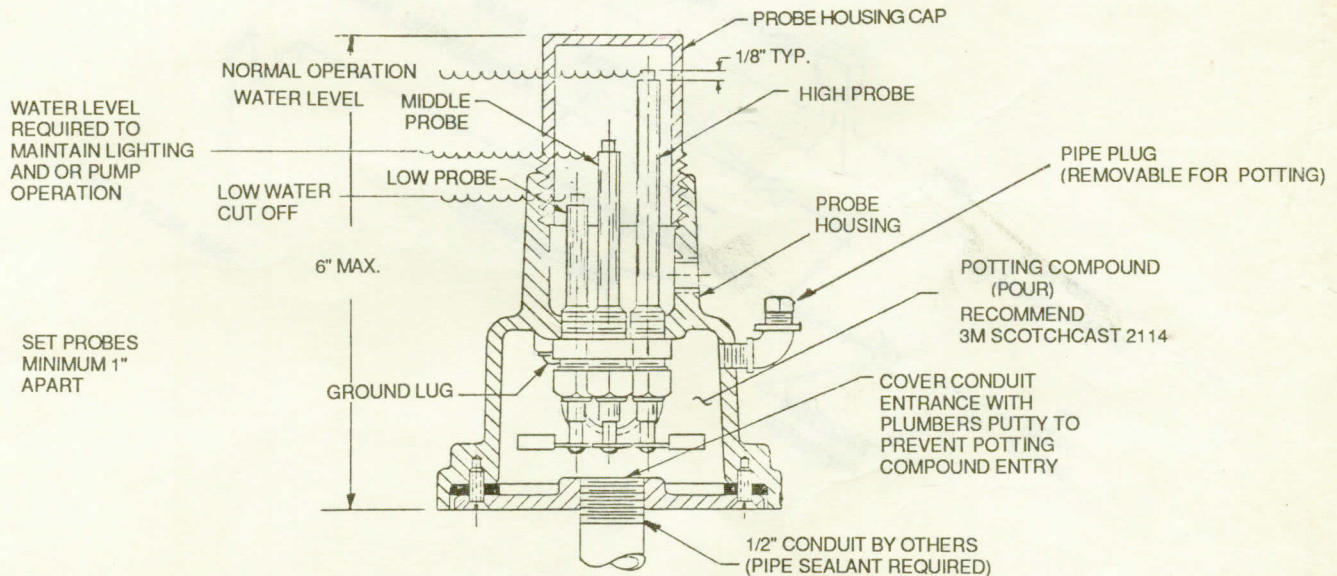
**PROBE SETTING:** Minimum probe length 2 1/2" from top of probe housing, maximum length 5/16" from top of probe housing. Additional probe length is available on special order. Probes may be field cut and installation stripped 1/8" from probe bottom. Probes should be set a minimum of 1" apart to prevent chatter from wave action.

**CONTROL PANEL:** NEMA IV enclosure 6"x6"x4" deep with circuit board 120V primary, 120V normally open and normally close contacts (220V, 50/60HZ available on special order), 10 amps inductive load, 5 amps resistive load. Low voltage to probes and 50,000 OHMS sensitivity. Panel may be located up to 200 ft. from probe housing. At any distance, conduit from control panel to the probe housing must be dedicated because high voltage fields will produce false readings to the control panel.

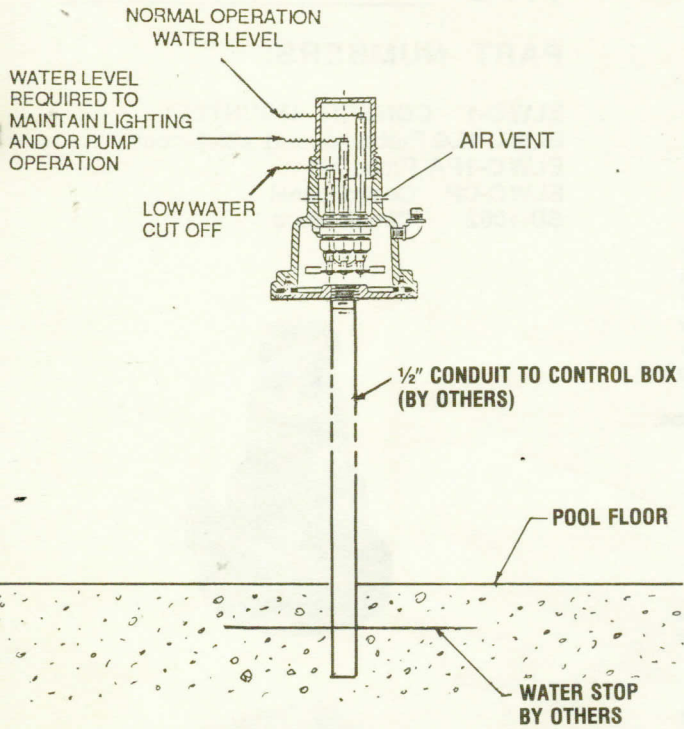
NOTE: HYDREL RESERVES THE RIGHT TO CHANGE ANY SPECIFICATION WITHOUT NOTICE.



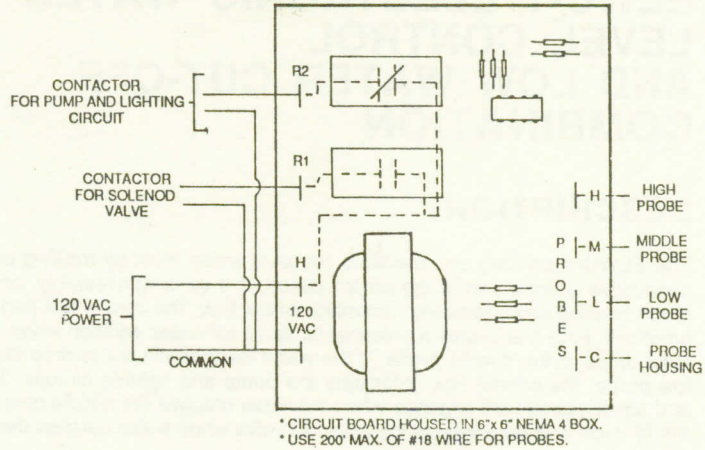
## DIMENSIONS:



# CONDUIT MOUNT



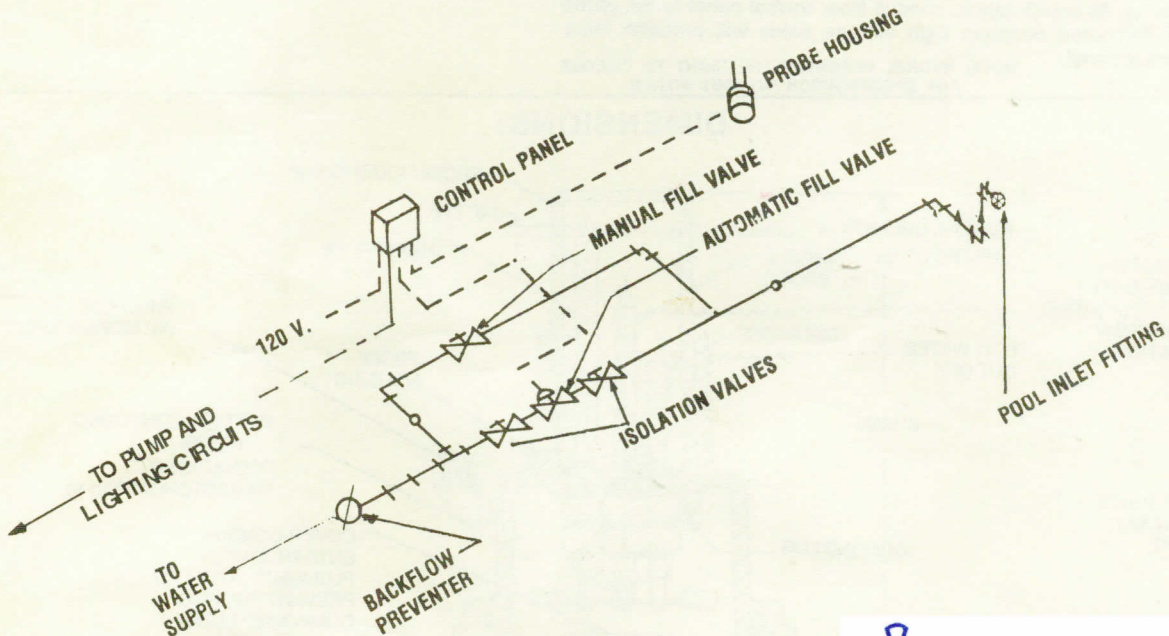
# ELECTRICAL



## SWITCH ACTION

- |   |  |
|---|--|
| <p>(1) LEVEL ABOVE THE TOP PROBE<br/>(A) R2 CONTACT CLOSED<br/>(B) R1 CONTACT OPEN</p> <p>(2) LEVEL DROPS TO BETWEEN TOP &amp; MIDDLE PROBES<br/>(A) NO CHANGE<br/>(B) NO CHANGE</p> <p>(3) LEVEL DROPS BELOW MIDDLE PROBE<br/>(A) R2 CONTACT CLOSED<br/>(B) R1 CONTACT CLOSED</p> <p>(4) LEVEL DROPS BELOW LOW PROBE<br/>(A) R2 CONTACT OPEN<br/>(B) R1 CONTACT CLOSED</p> | <p>(5) LEVEL RISES TO BETWEEN LOW &amp; MIDDLE PROBES<br/>(A) NO CHANGE<br/>(B) NO CHANGE</p> <p>(6) LEVEL RISES TO BETWEEN MIDDLE &amp; TOP PROBES<br/>(A) R2 CONTACT CLOSED<br/>(B) R1 CONTACT OPEN</p> <p>(7) LEVEL RISES ABOVE TOP PROBE<br/>(A) R2 CONTACT CLOSED<br/>(B) R1 CONTACT OPEN</p> |
|---|--|

# ISOMETRIC



**Fountain Supply Company**  
COMPONENT SUPPLY