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# PANEL INSTALLATION

SINGLE PHASE SIMPLEX PUMP CONTROL PANEL

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### PANEL INSTALLATION

**NOTE:** Damp atmosphere, especially on sewage installation, will damage electrical equipment. To maintain the sealed feature of this equipment, make all wiring connection with "O" ring seal conduit connectors and use duct seal compound to seal wires at all conduit terminations.

- 1) Determine hole location on panel for liquid-tight or conduit connectors. Drill proper sized holes for liquid-tight or conduit connectors.
- 2) Determine mounting location for control panel. Mount panel using drilled holes.
- 3) Attach connectors and conduits.
- 4) Run pump cable and float cable through conduit. Make field connections per enclosed schematic.
- 5) Run "power in" conductors through conduit. Wire to terminals per enclosed schematic.
- 6) Manual testing of float switch operation prior to installation in the pump chamber is recommended. Manual testing should simulate pumping operation.

### OPERATION

#### AUTOMATIC

Place the HAND-OFF-AUTO switch in auto position. A rise in sump level past the "OFF" bulb and a further rise in sump level past the "ON" bulb energizes the contactor, starting the pump. As the sump level drops below the "ON" bulb, the circuit is held by holding contacts until the level is below the "OFF" bulb.

#### MANUAL

The pump may be operated at any time by placing the HAND-OFF-AUTO switch in the HAND position.

#### ALARM

Should the pump fail to lower the sump level and a continued rise activates the "ALARM" bulb, the external alarm horn and the high level flashing light will energize. A drop in sump pump level below the "ALARM" bulb will de-energize the alarm.

#### SERVICE

**CAUTION:** Before checking electrical connections within the control or attempting to replace any components, turn off all branch circuits that are supplying power to the control panel. A separate 120 VAC control circuit power supply may be connected to the control panel.

\* The alarm circuit can be tested by momentarily selecting the alarm test switch once satisfied that the alarm circuit is functioning.



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