Pump-Up Sequencer

AXIOM

AMC100-PU-x-x

- Lead-Lag staging control capability
- 2 Hand/off/Auto Switches
- LED indicating Lights (Power, Run, Alarm)
- Dry contacts for "Motor Run" and "Low-Level", "High-Level", and "Lag Alarm"
- Individual overload and short circuit protection w/reset buttons
- Configurable inputs (N.O or N.C)
- Audible buzzer for alarms
- Motor shutdown on a low level condition

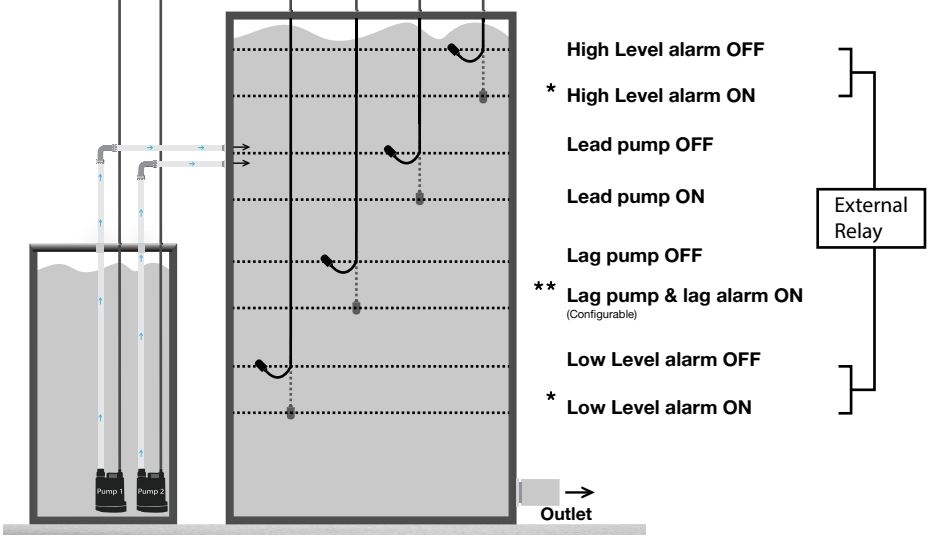
Application: Duplex Pump Up

An Alternating Motor Sequencer is used when it is desirable to operate 2 pumps in an alternating lead/lag sequence to provide additional or back-up pumping capacity as part of a pump-up water system.

Available Options :

AMC100-PU-x-x

- **#** of floats included
- **D** (Duplex Pump) / **S** (Simplex Pump)



Available Configurations :

- ☐ AMC100-PU-D-0 : Pump-Up Duplex Controller
- ☐ AMC100-PU-S-0 : Pump-Up Simplex Controller
- ☐ AMC100-PU-D-4 : Pump-Up Duplex Controller, w/ (4) FLOAT20
- ☐ AMC100-PU-S-3 : Pump-Up Simplex Controller, w/ (3) FLOAT20

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AMC100-PU ALTERNATING PUMP-UP APPLICATION TECHNICAL INFORMATION

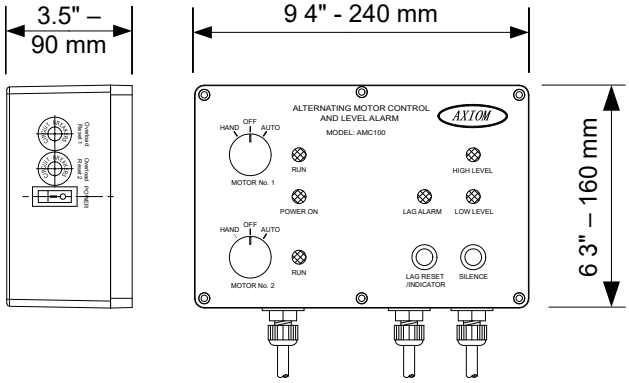
WEIGHT :

2 kg, 5 lbs.

ELECTRICAL :

110-125V/60/1
7 Full Load Amps Max. per motor
Dry contact limits - 2A/120VAC.

DIMENSIONS :



SPECIFICATION :

The control panel shall operate in an alternating lead/lag configuration to control the (pumps/compressors/_____) as required. The control panel enclosure shall be manufactured of ABS. The components shall include; 1 power Indication Light, 2 HOA switches, 2 motor run lights, alarms for low level, high level and lag run. Alarms shall have lights and a buzzer with silence button and selectable use dip switch. Inputs shall be selectable for NO or NC operation. There shall be dry contact outputs for remote indication of motor run, low and high alarm and lag alarm. A low level condition shall shut down the motor outputs. The Panel shall carry an electrical rating of 7 FLA per circuit at 120-125V/60/1. Each circuit to have overload and short circuit protection and utilize individual overload reset buttons. The dry contacts shall be rated for 2A/120VAC. The assembly shall be certified by a recognized testing agency to CSA Standard C22.2 No. 61010-1.

AVAILABLE CONFIGURATIONS :

- ☐ **AMC100-PU-D-0 : Pump-Up Duplex Controller**
- ☐ **AMC100-PU-S-0 : Pump-Up Simplex Controller**
- ☐ **AMC100-PU-D-4 : Pump-Up Duplex Controller, w/ (4) FLOAT20**
- ☐ **AMC100-PU-S-3 : Pump-Up Simplex Controller, w/ (3) FLOAT20**

SEQUENCE OF OPERATION :

During normal operation, the lead pump cycles to handle the pump down requirements. If the lead pump fails or is unable to keep up with the incoming water flow, the lag pump float signals the panel to start the lag pump to provide back-up or additional pumping capacity. Anytime the lag pump is started, the lag pump light comes on, the lag pump alarm relay closes, and the lag pump audible alarm sounds. (Audible alarm sounds only if audible output dip switch is enabled (#6)). (Anytime a pump is started, its corresponding auxiliary output is energized to provide an output for remote indication) If the water level continues to rise, the high-level float signals the panel to energize an alarm light, the high-level dry contact output, and the audible alarm. (Audible alarm sounds only if audible output dip switch is enabled (#7)) The low level float (optional), if used and when activated, would shut down the pumps, preventing damage to them from running dry.

** The lag alarm is a unique feature that's purpose is to call attention to the fact that the lag pump was required to run. While this may be a result of a high load demand, it may also be a result of the lead pump failing and not being operational. In either case, the operator may wish to be made aware of this occurrence so that appropriate steps can be taken. This feature can be disabled by a dip switch selection. (#5)

Project _____ **Location** _____
Consultant _____ **Contractor** _____
Unit Tag _____ **Sales Agent** _____