# Booster Pump Sequencer

**AXIOM**

# AMC100-BP-x-x

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

## Application: Sump Pump Sequencer

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 pressure booster systems.

## Available Options :

### AMC100-BP-x-x

→ **#** of floats included

→ **D** (Duplex Pump) / **S** (Simplex Pump)
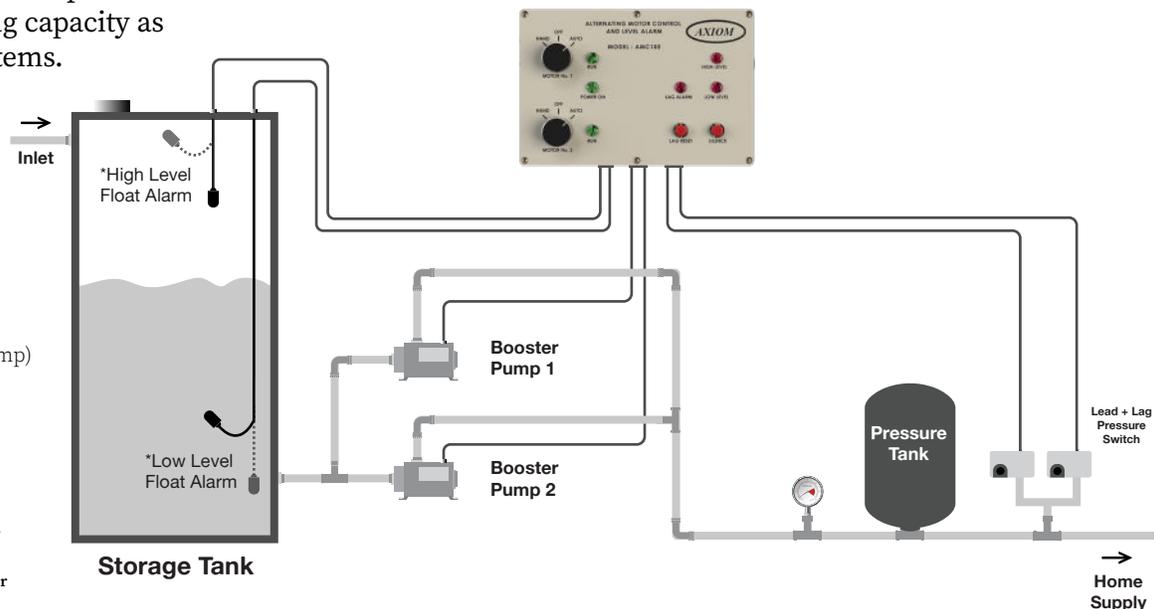
## Available Configurations :

☐ **AMC100-BP-D-0 :** Booster Pump Duplex Controller

☐ **AMC100-BP-S-0 :** Booster Pump Simplex Controller

☐ **AMC100-BP-D-2 :** Booster Pump Duplex Controller, w/ (2) FLOAT20

☐ **AMC100-BP-S-2 :** Booster Pump Simplex Controller, w/ (2) FLOAT20

# AMC100-BP BOOSTER PUMP APPLICATION TECHNICAL INFORMATION

**DIMENSIONS :**

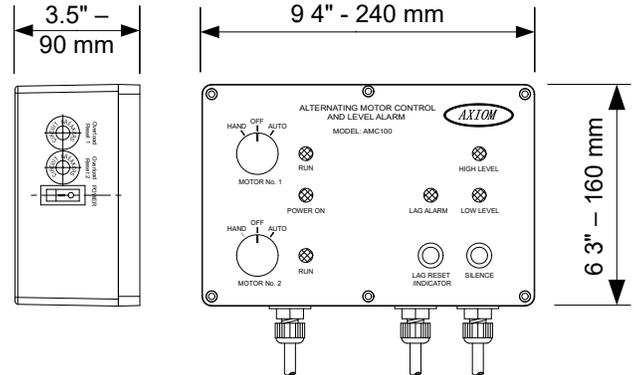**WEIGHT :**

2 kg, 5 lbs.

**ELECTRICAL :**

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



**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-BP-D-0 :** Booster Pump Duplex Controller

☐ **AMC100-BP-D-2 :** Booster Pump Duplex Controller, w/ (2) FLOAT20

☐ **AMC100-BP-S-0 :** Booster Pump Simplex Controller

☐ **AMC100-BP-S-2 :** Booster Pump Simplex Controller, w/ (2) FLOAT20

**SEQUENCE OF OPERATION :**

During normal operation, the lead pump cycles on a call from the lead pressure switch. If the lead pump fails or is
unable to keep up with water demand, the lag pump pressure switch signals the panel to start the lag pump to provide
additional or back-up pumping capacity. Any time 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)).(Any time a pump is started, its corresponding auxiliary output is energized to provide an output for
remote indication). The water level in the storage tank is monitored by high level and low-level floats. Either float can
signal the panel to energize its respective alarm light, a dry contact output and the audible alarm. (Audio alarm
sounds only if audible output dip switch is enabled (#7))The low-level float, if activated, will cause the pumps to be
disabled, preventing damage to them from running dry. The high-level float (optional), through its output contacts,
could close a valve on the water inlet to the storage tank.

** 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.

| Project | | Location | |
|---------|---|----------|---|
| Consultant | | Contractor | |
| Unit Tag | | Sales Agent | |