



▲ PUMP CONTROLLER

OWNER'S MANUAL

MODEL

SP

▲ **BASICS** — The *Model SP*[™] controller is engineered to provide speed control of a solenoid-controlled AODD. You can set the speeds in a range of 0.1 to 3600 Seconds/Stroke. A Stroke is defined as the pumping of one of the pump liquid chambers.

The system requires 110 volts AC (220-240 also available) to power it and delivers 12 volts DC to the pump solenoid. You must use the appropriate pump solenoid when using a *Model SP*. The system is programmed using the 4-button keypad on the enclosure. The connections for remote usage are provided via terminal strip on the circuit board.

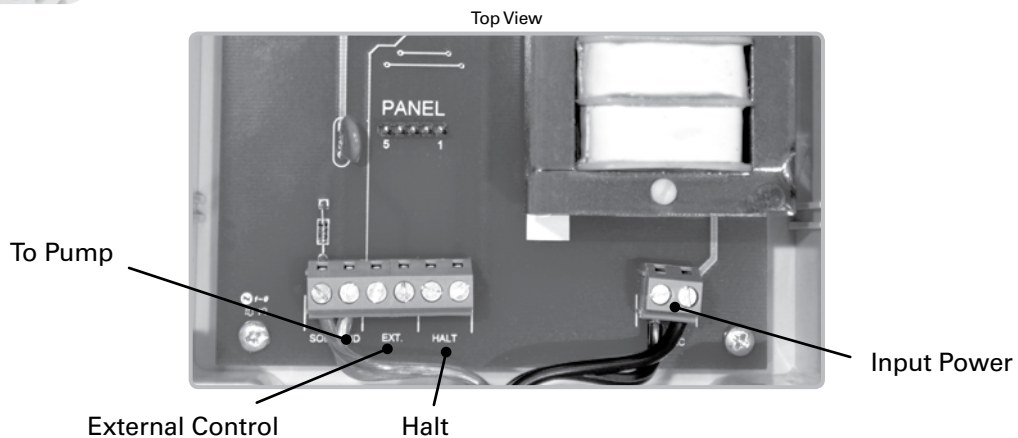
The enclosure is a NEMA 4X and the external control keypad is protected with plastic. However, prolonged direct spray should be avoided. The unit always comes up in the last preset it was used in and is ready to run seconds after power is applied.

▲ **PROGRAMMING** — Select the **Preset** needed. Presets 1-3 are controlled from the front panel keypad. Preset "E" is for an external control switch. To set any preset's speed simply, select the preset and then push the **Faster** or **Slower** buttons to reach the desired speed setting. Start and Stop are controlled from the remaining button for presets 1-3.

The unit also has a terminal for **Halt**. The **Halt** function stops the unit from sending voltage to the pump but the pulses are still generated and the counter still counts them. When the **Halt** function is active, the LED stays **red**, otherwise the LED will be **green** when voltage is sent to the solenoid on the pump.



Both the External and Halt terminals need a set of dry contacts to trigger them... never a voltage.



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