

AUTOMATIC CONTROLLER PROGRAMMING INSTRUCTIONS



This versatile controller serves a variety of voltages, from 24VAC to 320VAC. Essentially, whatever *input voltage* is applied to this controller will also be the *output voltage* (to the valve, solenoid or other device). For special requirements, contact LAKOS for assistance.

IMPORTANT TERMINOLOGY:

- CYCLE:** The amount of time between purge actions. Also known as *PURGE FREQUENCY*. This time may be set as seldom as every 23 hours, 59 minutes or as often as every 1 minute.
- PURGE:** The duration of the purge action; how long the valve stays open. This time may be set as long as 59 minutes, 59 seconds or as short as 16 seconds (for motorized ball valves) or 2 second (for pneumatic pinch valves). The controller for the motorized ball valve has a built-in 6 second delay and will purge for 6 seconds initially and at the end of each cycle frequency, before starting the programmed purge time. During this 6 second delay, all four digits will blink while it counts down the 6 seconds. A purge duration of less than 15 seconds is common, unless the purge line from the LAKOS separator is a long run.

This controller is designed to reset after any interruption of power or if the controller is switched to SET/CLOSE/STANDBY. When power is restored or the controller is switched to "AUTO," the controller will immediately begin the programmed purge duration (see "Purge Duration Countdown") and then continue on to its programmed cycle for the next purge (see "Purge Frequency Countdown").

When the operation switch is in the "AUTO" position, the two LED lights between the digits of the numerical display will flash to indicate that the controller is operating as programmed. They will not flash when the operation switch is in the "MANUAL/OPEN" or "SET/CLOSE/STANDBY" (closing the valve).

To Review or Set the Cycle:

1. Set the operation switch to "SET/CLOSE/STANDBY." This will turn off the numeric display.
2. Pull down on the "MODE SET" switch until the "cycle" LED illuminate. The hours digits should flash (see "HR" above numerical display).
3. To set the cycle time (in hours), actuate the "TIME" switch up (to increase the time) or down (to reduce the time).
4. When the desired hours appear on the display, pull down once on the "MODE SET" switch; the minutes digits (MIN above the display) should flash.
5. To set the cycle time minutes, actuate the "TIME" switch as in "3" above.
6. Set the operation switch to "AUTO" to input the selected cycle time into the memory and begin the new programming.

To Set the Purge:

1. Set the operation switch to "SET/CLOSE/STANDBY."
2. Pull down the "MODE SET" switch until the "purge" LED illuminates. The minutes digits (see MIN below the display) should flash.
3. To set the purge duration (in minutes), actuate the "TIME" switch up (to increase the duration) or down (to decrease the duration).
4. When the desired minutes appear, pull down once on the "MODE SET" switch; the seconds digits should then flash.
5. To set the purge duration seconds, actuate the "TIME" switch as in "3" above.
6. Set the operation switch to "AUTO" to input the selected purge duration into memory and begin the new programming.