

24V Valve Wiring

1. Connect Common Valve Wire to COM screw.
2. Connect optional master valve or pump start to MV-P terminal and the Common terminal.
3. Connect zones 1 through 4 to terminal screws provided. Note: You should always locate zones by using the Hot Post connection. On the SL800, you may use the left 24V auxiliary terminal position as a Hot Post. This terminal position is protected by the fuse.
4. If you require constant 24VAC power for a wireless sensor or other optional powered equipment, use the two 24VAC auxiliary terminals provided at the left end of the terminal strip.

24V AC Power Wiring

Insert male connector into female receptacle on the side of the SL800 housing. Use provided restraints to route the power cable down the side of the housing. Plug transformer into convenient outlet.

Adding Extra Zones

Connections for two SLM2 modules are provided at the right side of the terminal strip to expand the SL800 to 6 or 8 zones. The SLM2 modules are hot swappable and the SL800 will instantly recognize the additional zones. Push each module onto the male connector. Use the provided terminal screws to secure the front of the module. Do not skip module position 5 and 6. Always install that module position first. To remove an SLM2 module, first remove the terminal screws and then use a small flat blade screwdriver to move the module forward from the rear connector.

Connecting a Sensor

Use the S1 and S2 positions on the terminal strip for connecting a standard type rain sense or freeze sense. Discard the wire loop if a sensor is connected. Important: The wire loop must be left in place if a sensor is not in use. Do NOT use the S1 and S2 for connecting a Weathermatic SLW. See SLHUB instructions above.

Conduit Skirt

Complete your installation by sliding the conduit skirt into the locking slots on the housing. If you have installed an SLW, route the communication cable through any of the side openings provided on the skirt. Use two additional provided screws to secure the bottom of the skirt to the wall.

Replace the hinged wiring compartment door.

Electrical Data for the SL800.

The SL800 uses a 750mA transformer to power a total of 2 valves including a master valve or pump start relay. Take caution when installing a pump relay that maximum output current does not exceed 720mA.

The SL800 does not use a backup battery. All programming information including time and date are non-volatile.

Replacement fuse for the SL800 is a 1.0A, 3AG, slow blow fuse.

Controller Installation

1. The SL800 is designed for indoor installations only. Choose a location that is convenient to valve wiring and a 120V (230V for export models E-SL800 and E-SL800A) outlet. The SL800 is not intended for operation by children and should be installed in a location convenient for operation by adults but out of the reach of children. Choose a location with good lighting to maximize display readability.

Installing Optional SLHUB

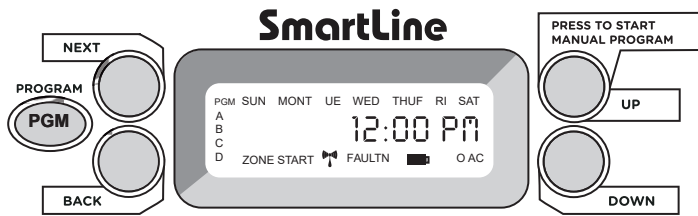
(If you are not installing an SLW Weather Station, you can skip this step.) If you are going to use an SLW Weather Station with the SL800, the first step in installation is to open and discard the SLHUB compartment cover on the back of the SL800 housing. Insert the SLHUB (packaged with the SLW1 or SLW5). Carefully push the SLHUB onto the 10-pin connector. Use provided screw to secure SLHUB to SL800 cabinet. SLW1 ONLY: Connect the RED, BLACK and SILVER wires to the SLHUB matching color polarity as shown on the terminal. Secure the communication cable in the restraint provided on the housing.

Mounting the SL800 Controller

1. Install a wall anchor. Insert the provided mounting screw into the wall anchor to a depth allowing the head of the screw to be inserted in the keyhole at the top center of the housing. The housing should be flat against the wall with the head of the screw in the keyhole.
2. Remove the hinged wiring compartment door and set it aside temporarily.
3. Level the controller housing on the wall and secure it with a second screw through the center housing standoff located just below the terminal position for Zone 1. If additional screws are desired, use the left and right standoffs at the bottom of the housing.

Use **PGM** to select program A, B, C, or D.

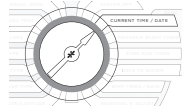
Use **NEXT** and **BACK** buttons to select options and scroll between zones.



SmartLine® Basic Programming

(See reverse side of card for Smart Programming Instructions).

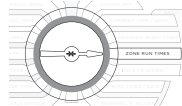
1 Set time of day (AM/PM) and month/day/year.



2 Set daily start times (AM/PM) for Programs (A, B, C, D) in use. Normally, one start time is sufficient. The start time is for the Program and not each zone. The Program will run all zones in consecutive order for each start.



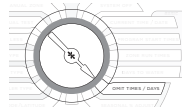
3 Set zone run times (1 min to 9 hours 55 minutes) for Programs (A, B, C, D) in use.



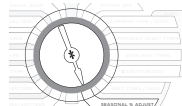
4 Set watering days by selecting days of week or interval (1 to 30 days) or odd or even days for Programs (A, B, C, D) in use.



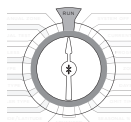
5 Set omit times, days, and dates to accommodate watering blackout periods (optional).



6 Set seasonal % by month for Programs A, B, C, D (optional).



7 Return dial to RUN.



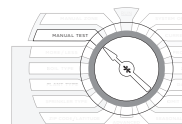
Manual Zone

Turn dial to **MANUAL ZONE**. Use **NEXT** button to select zone to run. Use **UP** and **DOWN** arrow keys to select zone run time (1 min to 9 hours 55 minutes). **Return dial to RUN to start.**



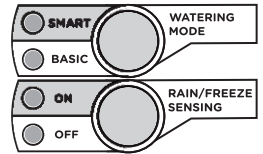
Manual Test

Turn dial to **MANUAL TEST**. Use **UP** and **DOWN** arrows to enter run time (10 seconds to 10 minutes) for all zones with assigned run time. **Return dial to RUN to start.**



Refer to Owner's Manual for Advanced Menu dial position.

1 Installation of optional SLW weather station and Basic Programming is required for Smart Programming.

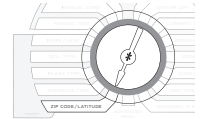


- Verify correct time and date at Current Time/Date dial position.

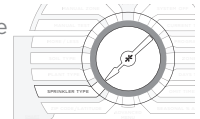
- Enter Program Start Times, Zone Run Times, and Days. See Basic Programming instructions.

2 Turn dial to steps noted below. Use **NEXT** and **UP** and **DOWN** buttons for the following program steps:

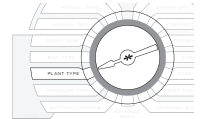
3 Enter ZIP Code or Latitude.



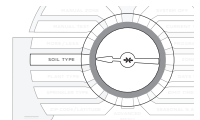
4 Enter Sprinkler Type or Precipitation Rate for each zone. Set zones to be operated in Basic to STD setting. Unused zones should be set to OFF.



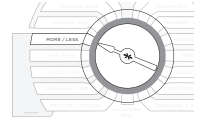
5 Enter Plant Type for each zone



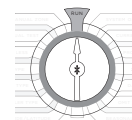
6 Enter Soil Type and Degree of Slope for each zone.



7 Enter More or Less setting (optional). Set % by zone to accommodate factors like shade, wind, and sprinkler inefficiencies.



8 Return dial to RUN.



9 Initiate communication with the SLW weather station. You will need to go to the SLW weather station and push down on the Rain Sensing tab at the top for 15 seconds. If communications have been established, you will see an antenna icon on the bottom of the display. Flashing antenna icon indicates communication has occurred in last five minutes. See Owner's Manual.



10 Use **MODE** button to enter Smart Watering Mode. If you have communication with the SLW, the Smart GREEN LED will light. This confirms that you are operating in Smart mode.

11 Select **ON** LED for Rain/Freeze sensing position so that the controller will shut down during rain and freeze events.