**Step 1: Controller Installation**
All PL1600 controller housings are designed for indoor or outdoor installation. Your PL1600 controller can be located in any convenient spot such as inside the garage or on an outside wall. It is recommended that you choose a location where the irrigation system will not be spraying directly on the controller, in the event the housing door is left open.

1. Open the controller’s front door, then open the control panel of your PL1600 controller.
2. Remove the control panel from the PL1600 controller housing by pushing upward and outward to remove from the hinges, then set the control panel aside in a safe place.
3. Mount the PL1600 controller with or without the PL1600 controller Quick Mount bracket.

**Step 2A: Installing With Quick Mount Bracket (recommended)**

1. Determine mounting height for easy viewing and be sure to mount low enough for field wires to reach all controller wiring terminals and test post at top of controller.
2. Place the mounting bracket against the wall so that the word “CONTROLLER SIDE” is visible and the open ends of the housing retainers are pointing upward.
3. Using one of the mounting screws (or a pencil) mark the location onto the wall of the top/center hole (see photo).

**Step 2B: Installing Without Quick Mount Bracket**

1. Determine mounting height for easy viewing and be sure to mount low enough for field wires to reach controller wiring terminals and test post at top of controller.
2. Install a wall anchor in the desired location. This will be for the top/center hanger hole of the controller.
3. Install one of the mounting screws provided into the wall anchor.
4. Hang the controller on the mounting screw by positioning the controller on the head of the mounting screw. Check the controller for level, then drive a 2nd screw into the “notch” inside the bottom/center location to mark position for second anchor. Remove controller from top keyhole and install second anchor and then remount controller and tighten both screws to secure unit.

**Step 3: SLM4 Module Installation**

1. The PL1600 controller is equipped with one 4-zone module (SLM4). Additional SLM4 modules may be added to expand capacity to 16 zones or SLM12-1600 to expand to capacity to 24 zones. The SL1620 has 20 fixed zones. The SLM4 and SLM12-1600 module is useable only on the PL1600.
2. The PL1600 controller will automatically recognize the additional zones as they are installed. No special programming or resetting is required to initialize the modules.
3. You can insert or remove a module without removing power from the controller.
4. To install a module, push the module into the channels until you feel it lock in place. To remove a module, push DOWN on the center release panel on the top of the module and use the top tab to

**Note:** Modules must be inserted in the sequence of numbered zones. Do not leave any gaps in module positions.
Step 4: AC Power Wiring

1. Plug the included 6-foot line cord into a 120VAC outlet. (E-PL1600 units for international use are prewired for 230VAC.)
2. Do NOT use a switch controlled wall outlet for operating an irrigation controller.

Alternate Wiring

If you are mounting your PL1600 controller outdoors or local electrical codes require hard wiring, proceed with the following steps.

Warning: Connecting the PL1600 controller to the primary power should be done by a licensed electrician following all local codes. To prevent electrical shock, make sure all supply power is turned OFF at the breaker before connecting these wires. Electrical shock can cause severe injury or death. This controller is not intended for use by children. Do not allow children to play with the controller.

1. Remove the screws that secure the AC Wiring Cavity Panel. This will allow access to the transformer wiring.
2. Disconnect the existing line cord connected to the transformer wires.
3. For use with conduit, simply remove the line cord knockout. To do this, use a small, flat screwdriver blade in the slot of the knockout on the underside of the controller housing. Tap out the knockout with a hammer. Install the conduit and wiring. Discard the line cord.
4. For 120VAC operation, using wire nuts, make the wire connections indicated in the chart below.
5. For 230VAC operation, using wire nuts, make the wire connections indicated in the chart below.
6. Replace the AC Wire Cavity Panel and secure with the screws.
7. Return to the breaker box and turn on the circuit breaker. Verify that the controller no longer displays “no AC.” This indicates that the AC power is on.

Step 5: 24VAC Valve Wiring

WARNING: Never mix 24VAC and high voltage wiring in the same conduit.

- For solid wires, simply push to insert the stripped end of valve wire into the module connector.
- For stranded wires, use a small screwdriver blade to push back the orange slide lock trigger first, then insert the stranded wire while holding the trigger in the open position. When you release the orange slide trigger, the wire will lock in place.

9V Battery Installation (optional)

PL1600 controllers with firmware versions later than 1.10 do not require a battery for clock time retention. A 9-volt battery may be installed for operating the display when the panel is open or for programming while the panel is outside the housing.

Step 6: Control Panel Installation

1. With the controller installation complete, re-insert the control panel into the housing. To do this, hold the operating panel at a 90 degree angle from the housing (see photo at right) and position the top of the panel slightly toward the housing and slip the top post into the top hinge, then push the bottom post into the lower hinge. The panel should now swing open and close freely on the hinges.
2. The PL1600 controller will automatically restore power and communication to the control panel as soon as it is firmly closed.

Installation is complete! Proceed to your Owner’s Manual to program your PL1600 controller.

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