

WARNING DO NOT ATTEMPT TO REWIRE OR ALTER WIRING IN THE SmartBOX™ OR WARRANTY WILL BE VOIDED.
DO NOT WIRE POWER DIRECTLY TO THE PRESSURE SENSOR. PRESSURE SENSOR WILL WORK WITH 24 VOLT ONLY

TYPICAL SmartBOX™ INSTALLATION

Box Prep.

1. Knockouts on bottom of the SmartBOX™ should be removed. The use of romex connectors in knockouts is recommended, but not required.
2. Mount SmartBOX™. **Do not install SmartBOX™ where a sprinkler will continue to pass over box, enclosure is rainproof, not sprinkler proof.**
3. Remove electrical cover from the pump motor. Using the wiring diagram on the motor, verify the motor voltage. Most pump motors are wired 230V at the factory.

Wiring Pump

4. Determine wire size needed by adding the distance, in feet, from the breaker box to the SmartBOX™ plus (+) the distance, in feet, from the SmartBOX™ to the pump. A National Electrical Code wiring chart should be consulted. Using undersized wire will affect the pump's performance.
5. Identify the "GROUND" lead at the pump. Run a wire from the ground at the pump, through the middle knockout, to the grounding screw inside the SmartBOX™.
6. Identify the "NEUTRAL" (white) wire at the pump. Run a wire from the neutral at the pump, through the middle knockout, to the "T1" terminal on the relay.
7. Identify the "HOT" (black) wire at the pump. Run a wire from the "HOT" at the pump, through the middle knockout, to the "T2" terminal on the relay.

Power

8. With breaker in the "OFF" position at the breaker box, run a "GROUND" wire to grounding screw in SmartBOX™, then run a wire from the "NEUTRAL" 110V or 2nd "HOT" 220V (white), through the right-hand knock out, to the "L1" terminal on the relay.
9. Again, at the breaker, run a "HOT" (black) wire from the breaker through the right-hand knockout, to the "L2" terminal on the relay.

Pressure Sensor & Temp. Wiring

10. Install pressure sensor on the discharge side of the pump. When a y-strainer is used, place the pressure sensor after the y-strainer, anywhere on the main line.
11. Run a wire from the sensor, through the left-hand knockout of the SmartBOX™ to the "RED" lead inside — use wire nut to secure.
 - 11a. **NOTE - Optional 105° High Temperature Switch**
Run a wire in combination with the "RED" lead from Pressure Sensor as noted above — use wire nut to secure. (SEE ILLUSTRATION)
12. Run another wire from the sensor, through the left-hand knockout of the SmartBOX™ to the "BLUE" lead inside — use wire nut to secure.
 - 12a. **NOTE - Optional 105° High Temperature Switch**
Run a wire in combination with the "BLUE" lead from Pressure Sensor as noted above — use wire nut to secure. (SEE ILLUSTRATION)

NOTE - RED AND BLUE LEAD WIRES CAN BE PLACED ON EITHER TERMINAL OF THE PRESSURE SENSOR AND HIGH TEMPERATURE SWITCH.

Finish/Controller

13. Locate the "MASTER VALVE" inside the 24V lawn controller. Run a wire from this terminal, through the left-hand knockout, to the black wire lead — use wire nut to secure.
14. Locate the "COMMON" inside the 24V lawn controller. Run a wire from this terminal, through the left-hand knockout, to the white wire lead — use wire nut to secure.
15. Move breaker to the "ON" position. Program lawn controller.
Timer inside the SmartBOX™ is preset for 30 seconds — initial startup or large zones may require additional time. Turn dial 1/4 turn to the right.
Repeat run cycle as needed to fill all lines.

