ESP-SMT Smart Modular Control System
Quick Installation & Setup Guide
(for ESP-SMT panels with a March 31, 2011 date code or newer)

Welcome To The Rain Bird ESP-SMT Smart Control System

The Rain Bird ESP-SMT “Smart” Modular Control System has many advanced features based on scientific agronomic principles. It is designed for you to easily and conveniently keep your client’s landscape healthy and vibrant by optimizing the irrigation need to irrigate correctly and save water. They also stated that this controller is much easier and faster to program than any other controller they have used.

To leverage the value savings potential of the ESP-SMT control system, it is important that you are familiar with both the basics as well as advanced capabilities of the controller. If you would like to better understand Plant-Soil-Water relationship principles or learn more about how to maintain the water saving and yard profiles with the ESP-SMT Smart Control system, we offer a free, comprehensive on-line tutorial program. To learn more, visit the Rain Bird website: www.rainbird.com

Thank you for doing your part to conserve our most precious natural resource... WATER!

Box Contents and Required Tools

Box Contents
1 ESP-SMT Controller (in retro-fit panel only)
2 Controller Mounting Hardware
3 Controller Mounting Template
4 ESP-SMT Installation & Operation Guide
5 ESP-SMT Site Profile Chart
6 ESP-SMT Installation & Quick Setup Poster
7 SMT Weather Sensor
8 Weather Sensor Details Screen
9 Weather Sensor Mounting Bracket
10 Mounting Bracket Hardware
11 Sensor Wire - 25 feet of 20-2 UV rated wire (not rated for direct burial)
* Controllerreland only
Installation Tools (not shown)
* Phillips flat head screwdriver
* Marking pencil for template
* Wire stripper
* Torpedo level
* Drill & 4’ Summer drill
* Ladder (if mounting sensor more than 6’ above grade)

Installing The Controller

Mount the Controller
1 Remove the controller door from cabinet front.
2 Open the face panel by grasping the crescent handle on the top right side of the cabinet.
3 Disconnect cable from back of panel.
4 Remove controller panel from cabinet hinge pins.
5 Drive a screw at eye level into the mounting wall surface. Leave approximately a 3/8” gap below.
6 Slide controller keyhole slot on back of cabinet onto the screw.
7 Secure controller by driving a 3/8” screw into wall through hole located at bottom of controller.

Locate The Sensor

- Install sensor in a location that receives afternoon sun in order to measure the daily high temperature (South or West exposure is ideal).
- Mount weather sensor at least six feet above grade.
- Ensure that sensor is free from obstructions to allow for collection and accurate measurement of rainfall.

Don’ts
- DO NOT install sensor in a location where spray from the sprinkler will collect in the sensor.
- DO NOT install the sensor where it will be located in the shade during the hottest part of the day.
- DO NOT install the sensor where rain will be blocked from entering the sensor funnel.

Connect Field Wiring
1 Connect each valve separate power wire to the corresponding station (zone) terminal.
2 Connect common wire to one of the leads on each valve.
3 Connect the other end of the common wire to the terminal on control labeled “COM”.

NOTE: All of the Field and Field Wiring Valves & Pumps is performed in the same manner as any other traditional time-based controller. For Pump, Master Valve and Control Valve Wiring, Refer to ESP-SMT Quick Setup Manual - pages 61 to 62.

Connect Sensor Wire to Controller
1 Run provided wire or 18-2 AWG direct burial, 20-vac wire from sensor to controller (200 ft. max).
2 Strip wire insulation approx 3/8” and insert leads into connector located on back of front panel (polarity is important).
3 Route the two wires through the provided channel and cut through one of the knockout, located in the bottom of the controller cabinet.

Remote Programming of Controller Panel
1 Insert Lithium battery into the back of front panel to program the controller without AC power to the unit. Drive completed, remove 9-volt battery from unit.

NOTE: All of the programmed information will be saved in non-volatile memory so you can pre-program the controller in advance of AC power availability.

Initial Controller Setup

Controls, Switches and Indicators

Input Zone Information