



## ESP-SMTe Smart Control System



Proving that extra smart can also be extra simple.

# Smart Technology has reached its tipping point.



Other smart controllers claim simplicity and precision; the Rain Bird® ESP-SMTe smart control system delivers. Combining the proven simplicity of the Extra Simple Programming (ESP) controller family with the accuracy of weather-based control, this innovative system now can expand up to 22 zones.

The ease and speed with which you can program a site is remarkable. Simply input a few key specifics, such as zip code, allowed watering days and the plant/soil type for each zone; the ESP-SMTe does the rest. Your installation time is cut dramatically. Your site's irrigation system waters only when the landscape requires it. And your customers save an estimated 30-70 percent in water.

"The ESP-SMTe is very user-friendly. Everyone loves the ease of programming, from the employees who install it to the homeowners who use it."

—Clark Gomez, President,  
Gomez Landscaping, Mapleton, UT



Certified by  
ICC-ES

## Now is the time

With mounting regulations and severe drought in many regions of the country, the days when water inefficiency was overlooked are gone. The future promises even more restrictions for the irrigation industry. But along with these challenges come opportunities. Pioneering smart irrigation technology, Rain Bird was the first full-line irrigation manufacturer with a controller to earn the EPA's WaterSense label, ensuring it is at least 20 percent more efficient than non-labeled products. For product details to help make smart technology more profitable, visit [www.rainbird.com/ESP-SMTe](http://www.rainbird.com/ESP-SMTe).

Never has the need for smart technology been greater. And never has smart technology been more accurate or marketable than with the Rain Bird® ESP-SMTe smart control system.



## The proven accuracy of weather-based scheduling

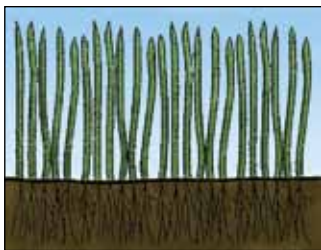
In designing the ESP-SMTe, we've simply reduced the cost and complexity of the weather-based control systems we began pioneering for golf courses over 25 years ago. Drawing on the industry-leading precision of these larger, more sophisticated units, the ESP-SMTe makes Rain Bird weather-based control affordable for homeowners—once and for all.

## Instant rainfall shut-off and useable measurement

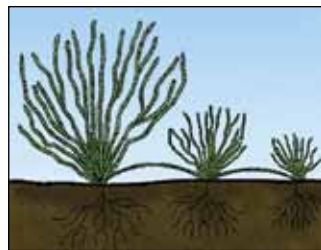
A smart controller should be smart enough to account for rainfall, right? Not always. In fact, most smart controllers simply suspend irrigation during rain events, without accurately measuring rainfall. By comparison, the ESP-SMTe not only suspends irrigation, it measures instantaneous rainfall data, determining effective rainfall and calculating a net replacement value. The ESP-SMTe knows exactly how much to adjust your watering schedule, preventing under- or over-watering.



*The ESP-SMTe's tipping rain bucket measures rainfall, accounting for effective rainfall, in order to prevent under- or over-irrigation.*



Cool Season Grass Variety



Warm Season Grass Variety

*Basing calculations on factors such as plant type, the ESP-SMTe meets the unique watering requirements of each zone in your landscape.*

## Zone-specific water calculations

Different plants have different watering requirements. That's why the ESP-SMTe customizes each zone's irrigation schedule. When calculating an accurate ET value for each zone, it factors in location, soil type, landscape slope, plant type/density, sun exposure, sprinkler type and root-depth requirements. Based on this zone-specific data, the ESP-SMTe controller engine optimizes the irrigation schedule to promote lush, healthy plant material in each zone, while substantially reducing water waste and runoff.

# The precision of weather-based scheduling.

## Easy to install



In minutes, the ESP-SMTe controller chassis and panel mount to an exterior or interior wall. For easy upgrades, the ESP-SMTe panel can also be mounted to an existing ESP-Modular or ESP-Modular Enhanced (ESP-Me) chassis. Installing virtually anywhere within 200 feet of

the chassis and panel, the ESP-SMTe outdoor weather sensor and adjustable, heavy-duty mounting bracket are easily wired to the controller using two quick-connect terminals.



## Easy to operate

Building on the simple design of the ESP-Me, the ESP-SMTe features a familiar set-up dial and large back-lit display. Programming the ESP-SMTe is fast and intuitive, thanks to easy-to-follow prompts, minimal dial positions and English or Spanish language options. Once you've entered your general and zone-specific information, your work is done; the ESP-SMTe does the scheduling for you based on weather data.

## Easy to sell

The ESP-SMTe practically sells itself to homeowners. By self-adjusting to the landscape's changing water needs, it eliminates the programming errors and guesswork of a time-based system. By watering only when necessary, it passes up to a 30-70 percent water savings to your customers.



*A full range of homeowner-facing sales materials, including yard signs, are available at [www.rainbird.com/ESP-SMTe](http://www.rainbird.com/ESP-SMTe).*



# THE SIMPLICITY OF AN ESP-Smart Modular Enhanced Controller.

COLOR-CODED SET-UP POSITIONS PROMOTE EASE OF USE.

LARGE, BACK-LIT DISPLAY INCREASES READABILITY.

TEN-POSITION DIAL SIMPLIFIES PROGRAMMING.

CONVENIENT NAVIGATION BUTTONS ENABLE QUICK AND EASY PROGRAMMING.

TIME-SAVING CONTRACTOR-DEFAULT STORES AND RETRIEVES SETTINGS.

HOT-SWAPPABLE EXPANSION MODULES EXPAND CONTROLLER UP TO 22 ZONES

ERGONOMIC GRIP AREA ALLOWS FOR CONVENIENT REMOTE PROGRAMMING.

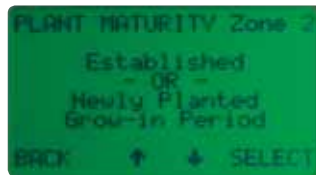
ENGLISH/SPANISH BUTTON OFFERS ONE-TOUCH SWITCHING OF DISPLAY TEXT LANGUAGE.

ENGLISH

SPANISH



PLANT MATURITY SELECTION FEATURE ENSURES EFFECTIVE WATERING OF BOTH ESTABLISHED AND NEWLY PLANTED VEGETATION.



ESP-SMTe WITH THREE ESPSM6 STATION EXPANSION MODULES FOR A TOTAL OF 22 ZONES.

## Controller panel fits ESP-Modular or ESP-Modular enhanced chassis for easy upgrades.

In seconds, upgrade an existing ESP-Modular to the ESP-SMTe Smart Control System just by switching panels and applying a station numbering label in the backplane cover.



# Weather Sensor Features



COMMUNICATION WIRE LINKS PANEL AND SENSOR VIA QUICK-CONNECT TERMINALS.

REMOVABLE DEBRIS SCREEN ENSURES ACCURATE RAINFALL MEASUREMENT.



ADJUSTABLE, HEAVY-DUTY MOUNTING BRACKET ALLOWS FOR EASY LEVELING.



SOLAR SHIELD PROTECTS TEMPERATURE SENSOR FROM REFLECTIVE HEAT.



REMOVABLE TIPPING RAIN BUCKET MEASURES EFFECTIVE RAINFALL.

EASY-TO-REMOVE TIPPING BUCKET OFFERS CONVENIENT MAINTENANCE AND CLEANING.



ADJUSTABLE MOUNTING BRACKET CAN BE INSTALLED ON A FENCE, SIDE OF HOUSE OR EVEN UNDER AN EAVE.

## MODELS

### • Control System Base Models

(includes ESP-SMTe controller & weather sensor)

**ESP4SMTEI** – 4 zone base module indoor\* – 120V

**ESP4SMTE** – 4 zone base module outdoor\* – 120V

*\* To expand up to 22 zones, use ESPSM6 – Six Zone Expansion Modules.*

### • Upgrade Model

(includes ESP4-SMTe controller panel & weather sensor)

**ESP4SMTEUPG** – Kit to Upgrade existing ESP-Modular Controllers\*

*\* Applies to ESP-Modular controllers manufactured after April, 2005.*

**Note:** All ESP-SMTe models come with a heavy-duty adjustable bracket and 25 feet of 18-2 non-burial wire for connection between the controller panel and the weather sensor pod..



Quickly and easily add up to 18 additional zones (for a total of 22 zones) with expansion slots for three optional modules.

## DIMENSIONS

### • Controller

Width: 10.7"

Height: 7.7"

Depth: 4.4"

### • Sensor (Largest Area Across)

Width: 6.0"

Length: 8.8"

Height: 5.9" (includes Solar Shield)

### • Mounting Bracket (Mounted on Vertical Surface)

Maximum reach: 7.0"

## ELECTRICAL SPECIFICATIONS

• **Input Required:** 120VAC +/- 10%

• **Output:** 25.5VAC 1A

• **Surge Protection:** Primary input side has (2) built-in MOVs (metal oxide varistor) to protect circuitry. Output side has (2) built-in MOVs for each valve.

• **Power back-up:** Lithium coin-cell battery maintains time and date while non-volatile memory maintains the schedule.

• **Multi-valve zone capacity:** Up to two 24VAC, 7VA solenoid valves per zone plus a master valve.



## The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

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At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.

The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit [www.rainbird.com](http://www.rainbird.com) for more information about The Intelligent Use of Water.™



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