

Controller Specifying Information

Name	Description	Model Number
<i>WeatherTRAK ET plus</i>	9 stations	WTPLS-09
	12 stations	WTPLS-12
	18 stations	WTPLS-18
	24 stations	WTPLS-24
Accessories	6' 120 volt power cord Indoor/outdoor bowtie antenna kit Vandal-resistant antenna kit	PWR-06 ¹ ANT-FLEX-BT ² ANT-FLEX-PC
<i>Example:</i> An 18-station <i>WeatherTRAK ET plus</i> controller with a 6' 120 volt power cord would be specified as WTPLS-18 PWR-06.		
¹ Optional for indoor/outdoor installations to boost reception.		
² Required when controller is installed in metal enclosure.		



Features

- 9, 12, 18 and 24 station models
- Indoor/outdoor model with secure locking cabinet
- Dial hybrid controller technology with programming dial, copy button, two selector knobs and large, three-line LCD display for programming ease
- Integrated pager for receiving daily *WeatherTRAK ET Everywhere[™]* service
- *ET Everywhere* data gathered from a nationwide network of more than 14,000 weather stations
- Alerts for water window or day programming conflicts, communication errors and solenoid or wire short detection
- Fast valve test program to identify opens, shorts and wire integrity
- Compatible with normally closed rain sensor, wind sensor or freeze sensor
- Non-volatile memory maintains programs in case of power outage
- Dedicated pump/master valve terminal
- Optional externally mounted antenna kits for use when controller locations warrant improved reception, or when controller is installed in a metal enclosure

Operating Specifications

- Four programming modes:
 - Fully automated by *WeatherTRAK*
 - User programmed with ET
 - User programmed without ET
 - Off
- Current daily and weekly ET values via *ET Everywhere* service
- Built-in sprinkler, soil, slope and plant database with customizable values for custom plant types
- Cycle and soak programming allows up to twenty cycles per start time
- 365-day calendar: program month, date and time of day, including time zones, and optimal automatic updating for daylight savings
- Sequential stacking of overlapping start times or run up to two programs simultaneously

- Available watering day patterns: automatic, seven-day window, odd/even days and interval day from 1-31 days
- Selectable water window
- Manual operation of individual stations or all stations from 1-99 minutes in 1-minute increments
- Independent station adjust allows individual station adjustments from -50% to +25% in 5% increments
- Day frequency adjust enables individual station adjustment of the default Management Allowable Depletion (MAD) value of 50% from 25% to 80% in 5% increments
- Copy button to decrease initial programming time
- Review mode provides schedule and program for each individual station
- Built-in alert functions for short detection and water window or day programming conflicts

Electrical Specifications

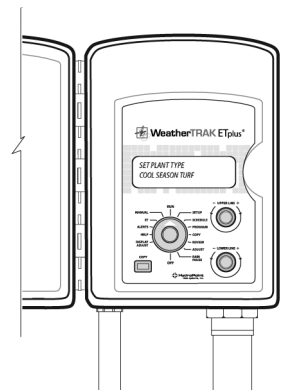
- Power input: 120 VAC (+/-10%) 60 Hz
- Capable of operating up to two 24-volt VAC solenoids per station, includes running a 24-volt VAC pump/master valve output circuit
- Total controller output: maximum 2.0 amps (48 VA) at 24 VAC including 0.375 amps for the master valve/pump start
- Power supply overload, back-up fuse: 2.0 amps
- Heavy duty surge protection on 24V output board with contact relays
- No battery back-up required for time, date or program
- Accessory power terminal output: 0.25 amps at 24 VAC maximum (for 18 & 24 station models only)
- Output board with contact relays (for 18 & 24 station models only)

Warranty

- 3-yr limited warranty for parts and labor

Dimensions

- 8.60" w x 11.00" h x 4.71" d



Reference table at top left to specify

WTPLS - 18	ANT-FLEX-BT
Model	Accessories
Number of Stations	

Contact *WeatherTRAK Sales* for product and purchase information.

The controller is smart. The service is genius.

800.362.8774
sales@hydropoint.com
www.weathertrak.com



General. The irrigation controller shall use dial hybrid control technology and be capable of automatic, semi-automatic and manual operations. All programming shall be accomplished with a simple programming dial, a copy button, two selector knobs and a large three-line display for ease-of-use. The controller shall be offered in an indoor/outdoor locking cabinet. The controller shall have date, time, time zone and auto daylight savings inputs. The controller shall carry a three-year warranty.

Programming. The controller shall have a customizable and independent program per each station/zone. Each station shall be programmable in one of four modes:

1) Fully Automated. The *WeatherTRAK Scheduling Engine™* shall calculate station runtimes, cycles, soak times and watering days and adjust these values based on daily ET values downloaded from *ET Everywhere*. In this mode, the controller shall prompt users for landscape-specific data for each station. Automatic mode shall use a 50% management allowable depletion (MAD)/soil moisture depletion model based on each plant type's root zone to determine the required watering program. Automatic mode values shall be:

Sprinkler Type. Default and customizable precipitation rates and efficiency percentage used to automatically determine station runtimes. Eleven options shall be available.

Precipitation Rates. Shall allow user to customize value from 0.2-9.9 inches per hour.

Sprinkler Efficiencies. Shall allow user to customize value from 10%-99%.

Soil Type. There shall be five soil types reflecting USDA soil texture classifications. Each soil type selection shall have an associated filtration rate and holding capacity value. They will be used by the *Scheduling Engine* to automatically determine the required number of cycles and soak times to eliminate runoff and to determine watering interval requirements.

Plant Type (default and custom). There shall be sixteen plant type choices, each with a default crop coefficient value (Kc) and root depth that will help determine plant-specific watering needs for healthy growth.

Root Depth. Associated with the selected plant material, root depth shall be customizable from 2"-36" in 1" increments. Root depth will be used in conjunction with the daily ET to determine the watering day intervals required to maintain optimum soil moisture levels.

Microclimate. The amount of sunlight that each valve location receives, microclimate shall provide station-specific water requirement adjustments. Four choices shall be available.

Slope Factor. The amount of grade change within a station location will also affect run and cycle times to minimize runoff and maximize the infiltration of applied water to the plant's root zone. There shall be five choices.

Sprinkler Location. Where a slope is selected, the location of sprinklers associated with a station may also increase or decrease watering times and cycles. Four choices shall be available.

Usable Rainfall. Percentage of rainfall that will affect station depletion shall be adjustable with values of 'None' and from 25% to 100% in 25% increments. A 'None' value shall ignore a rain switch or Rain Pause.

2) User Programmed with ET Mode. User-defined programs of irrigation day modes, station runtimes, cycles, soak durations, usable rainfall and reference ET. These programs will be adjusted based on daily ET value downloads from *ET Everywhere*.

3) User Programmed without ET Mode. User-defined programs of irrigation day modes, station runtimes, cycles, soak duration and usable rainfall. These programs will not use daily ET value adjustments from *ET Everywhere*.

4) Off Mode. All specified active days, start time(s), station runtimes and cycles are suspended permanently for that program until mode is changed.

Scheduling. The controller shall have two independent water day patterns (Schedule A and B) assignable by the user.

The controller shall have a 365-day calendar that provides selection of watering days in any one of four schedules: automated, interval, odd/even and days of week.

The controller shall have one user-defined start time per schedule.

Each schedule shall have a user-defined high ET start time that is used for a second watering cycle for stations that require more water on high ET days.

Each schedule shall have a user-definable water window for all schedules with optional station-specific exclusions from this window. Irrigation required but not completed in a given day, due to water window restrictions, will be carried over to the next allowable water day.

The controller shall run all stations one at a time in sequence and be capable of running two parallel schedules when specified by the user.

Valve Test and Alerts. The controller shall have functions for water window or day programming conflicts, communication errors and disconnected or shorted wires.

Operating. The controller shall be capable of manual operation by specific or all stations from 1-99 minutes in 1-minute increments. The controller shall be compatible with normally closed rain, wind or freeze sensors and be capable of automatically overriding all irrigation programming functions when activated. The controller shall also have the ability to be manually set for rain pause from 1-14 days.

The controller shall have an Adjust feature by individual station from -50% to +25% in 5% increments without altering start times or water windows. The Adjust feature shall also be capable of increasing or decreasing watering days.

All stations shall be capable of running individual station runtimes from 1-99 minutes in 0.1-minute increments.

The controller shall have the capability of reviewing all previously entered programming data via the Review feature which will display station runtimes, cycles, soak times, percent adjust and active days.

ET Everywhere Service. The controller shall include a built-in wireless radio receiver that receives ET updates sent from the *ET Everywhere* service no fewer than six times daily. Each controller shall have an assigned ET microzone that will allow it to receive the local weather for the controller's exact longitude and latitude coordinates. This shall be determined and automatically provided by HydroPoint Data Systems, Inc. upon service activation.

ET Service Status. The controller shall notify users of *ET Everywhere* subscription status by displaying days remaining until renewal.

Hardware. The controller shall have heavy duty surge protection on the 24V output board. The controller shall use non-volatile memory to retain all programming information during a power outage; the time and date will be maintained for up to seven days without a battery back-up. The controller shall have a power input of 120 VAC, (+/-10%) 60 Hz and be capable of operating up to two 24-volt VAC solenoids per station, includes running a 24-volt VAC pump/master valve output circuit. Total controller output shall not exceed 2.0 amps (48 VA) at 24 VAC including 0.375 amps for the master valve/pump start. Accessory power terminal shall have a maximum 0.25 amps at 24 VAC capability.

The controller shall be manufactured by HydroPoint Data Systems, Inc., Petaluma, Calif.