

BIDDING SPECIFICATIONS

Models

ETwater™ SmartBox™ Smart Controller 205T (8 – 48 stations)

ETwater™ SmartBox™ Smart Controller 205W (8 – 48 stations)

ETwater™ SmartWorks™ Replacement Panel 204W (8 – 48 stations)

Smart Controller Features

- Capacity from 8 to 48 stations in 8-station increments on 205T and 8 to 48 stations on 205W
- Durable, weather resistant aluminum enclosure with locking door for indoor or outdoor use
- Compact locking cabinet design suitable for wall mounting and selected pedestal installations
- Program and schedule display for each irrigation zone
- Manual operation of individual stations, or all stations, from 1-255 minutes in 1-minute increments
- Easy-to-use keypad for viewing programs, manual valve operation and other system functions
- Optional quick connection for TRC Commander^R, Rain Master[®] and Eicon remote control systems
- Standard connections for rain sensor, booster pump, master valve, and flow sensor. Compatible with normally open or normally closed master valves, and normally closed rain/freeze or wind sensors (users are notified via email when irrigation is blocked or restarted)
- Multiple valve common inputs for commercial applications
- Optional flow monitoring service provides mainline break protection, individual station flow monitoring, and leak detection. Features include automatic shut-off in event of mainline break and email alerts for high flow, low flow, no flow, and leak conditions. Compatible with Data Industrial IR Series^R flow sensors or equivalent brands
- ET Water model 204 Smartworks is a convenient panel retrofit for upgrading select controller brands. No enclosure or valve re-wiring needed

ETwater Manager™ Website Features

- Weather-based watering schedules with ET and rain adjustments automatically generated on a daily basis for each station based on specific sprinkler type, plant type, soil type, sun/shade condition and slope and other user-defined inputs
- User-defined fixed watering schedules and user-defined automatic adjusting schedules available for any or all stations
- Easy step-by-step online configuration process enables system to generate customized watering schedule for each station to optimize water use and minimize runoff

- Reliable, daily local weather data and rainfall is available across the U.S. from more than 11,000 public and private professional grade, local weather stations
- Easy-to-use web interface for all critical functions, including making watering adjustments, setting water windows, choosing blocked days, and configuring landscape settings
- Simple, intuitive navigation provides landscape maintenance contractor with ability to access any controller at any site from single web page
- User-defined water window with option to include/exclude any station. Irrigation deficits automatically calculated when stations are omitted due to water window constraints
- Establishment schedules with up to 8 start times per zone
- Unlimited watering interval for weather-based schedules
- Water budget adjustable from 50% to 400% in 5% increments on a station-by-station basis
- Allowable depletion level adjustable from 15% to 50% for any station
- 30-day watering history viewable for all stations
- Selectable fixed-interval, day-of-week, odd/even, and time of day municipal watering restriction settings
- Station copy feature to replicate settings from one station to any other station
- Default or user-defined precipitation rates
- Default distribution uniformity adjustable from 5% to 100%, in 1% increments
- Default root depth adjustable for all plant types
- Secure password-protected access ensures privacy of all client information
- Global Changes feature enables user to adjust landscape parameters for one station, a group of stations, or all stations across any/all controllers at a site, at one time
- Multi-valve feature enables simultaneous operation of up to four valves

Communications Technologies

- Two-way communication for downloading ET-based schedules, reporting irrigation and site data, and generating alerts
- Communication options
 1. Wireless
 2. Standard telephone line
- Automatic email alerts for notifying users of various conditions. Alerts categorized by severity level:
 1. Courtesy Service Notification
 2. Warning—Attention Recommended
 3. Urgent—Attention Required
- Alerts are posted on user's account page on ET Water Manager Website and may be sent via email to one or more email addresses. Alert conditions include:
 - Any schedule changes made at controller
 - Irrigation turned off at controller
 - Loss of communication
 - Rain sensor activation and resumption of watering
- Alerts for optional Flow Monitoring Service include:
 - Shut-offs caused by possible main line breaks or major leaks

- Low flow, high flow, no flow, or unscheduled flow conditions
- Slow leak (continuous flow over 24-hour period)
- Incomplete flow sensor set-up

Hardware and Electrical Specifications

- Dimensions: 14.5”L x 12.5”W x 4.75”D
- Weight: 10 pounds
- Plug-in station expansion modules available in 8-station increments up to maximum of 48 stations with minimum configuration of 8 stations
- Station output terminals sized for up to 12 gauge wire
- LCD display provides output verification for station being irrigated
- Chassis-mounted grounding lug for added lightning protection
- Built-in 120V convenience outlet provided for optional powerline communication
- Dual-voltage power operation for 120 or 24 VAC
- All 24V output terminals have surge protection rated up to 4KV in accordance with IEC 6100-4-5 standard
- All outputs are protected by a 2.0 amp self-resetting fuse
- Input power draw: 1.0 amp or less at 120 volts VAC
- Each station, booster pump, and master valve output terminal can handle up to two 24V solenoids
- Total controller output is 2.0 amps which can typically operate 6 solenoids, including master valve and pump relay
- Each controller supplied with three 1.5V batteries
- In event of power outage, non-volatile memory retains all programming information indefinitely
- Battery has capacity to maintain time and date for several months

Proven Results in Industry Standard IA-SWAT Test Protocol

- ET Water’s product performance was proven in the Irrigation Association (IA) SWAT (Smart Water Application Technology) Test Protocol conducted by CIT (Center for Irrigation Technology, U.C. Riverside). Test results show the ETwater™ Smart Controller maintains root zones within an acceptable range while minimizing excess water use. Results are published on the IA – SWAT web site.

Optional Accessories

- High gain, vandal resistant external mount “pancake” antenna
- Universal Remote Adapter for Rain Bird®, Irritrol®, Rain Master® and Superior controllers

ETwater Manager Requirements

- Active email address
- Web browser: Internet Explorer 5.0 and higher, Apple Safari 2.0, and Mozilla Firefox 2.0

Availability

- Custom irrigation schedules based on weather data from more than 11,000 weather stations throughout the U.S.
- ET Water local service personnel and/or distributors currently available in California, Nevada, Oregon, Idaho, Texas, Washington, and Colorado.

Language Options

- English and Spanish in printed user manual
- User manual in English and Spanish available on Web site

Service Features

- Toll-free customer support
- Web-based customer support
- Installation support available via experienced installers in specific markets
- Three (3) year limited Smart Controller warranty

As manufactured by ET Water Systems, Inc., Novato, California