

STERLING BRAND CONTROLLER WITH WATER2SAVESM



STERLING BRAND CONTROLLER

4, 8, 12, 18, 24, 30 & 36 Station Models

**Rugged, commercial-grade, steel Controller*

PLUS Remote Management



WATER SAVINGS SERVICE

Wireless Data Communication
Transparent to Irrigation Tech

STANDARD CONTROLLER PROGRAMMING

- ✓ Easy to use - simple, standard programming.
- ✓ NO complex initial setup or ET data entry required.
- ✓ Six independent programs that run concurrently.
- ✓ Up to nine daily cycle starts per program; or, loop watering optional in all six programs for unlimited cycles.
- ✓ No limit on the number of programs to which a station can be assigned.
- ✓ Station timing adjustable from 1 minute to 24 hours in 1 minute increments. Seconds/minutes time base optional in all six programs.
- ✓ An illuminated LED lets you know if a program is in the seconds/minutes mode.
- ✓ Automatic, semi-automatic, manual, and timed manual operation.
- ✓ Programmable watering calendar. The watering calendar is factory set at 7 days, but can be changed to any length from 1 to 32 days.
- ✓ Programmable 'system check' cycle that can be initiated at any station. Station 'On' duration programmable from 1 min, to 15 min. (or, optionally, 1 to 15 sec. per station).
- ✓ Water budgeting feature to simultaneously change the watering duration of all stations within a program (1% to 255%). An illuminated LED lets you know if water budgeting is set at other than 100%.
- ✓ Single program option gives you the flexibility of having two or more programs scheduled, but limiting automatic operation to only that program at which dial is set.
- ✓ Program erase feature allows existing programs to be erased individually or all.
- ✓ Programmable pause of 1 second to 59 seconds between stations to allow full valve closure before advancing to the next station.
- ✓ Programmable loop allows a program's watering cycle to continuously repeat for a desired period. Cycles can repeat immediately or after a programmed delay of 1 minute to 4 hours, 15 minutes.
- ✓ Program 6 can be activated by a sensor switch such as a thermostat. Ideal for frost protection or cooling.
- ✓ Simplified program review. Program information can be scrolled on the display.

WIRELESS COMMUNICATIONS (FULLY TRANSPARENT)

Sterling controllers with Water2Save are configured and integrated with wireless data communications and control electronics. Sterling Controller becomes part of Water2Save water management service and can act as a centralized controller accessible via the Internet. Electronics include: communications and control interface card that connects directly to the controller with firmware commands linking controller irrigation programs and settings via shielded wireless GPRS data modem, antenna and cable.

WATER2SAVESM WATER MANAGEMENT SERVICE

Sterling controllers with Water2Save include water management services as follows:

- ✓ Wireless Activation and Data Transmission – wireless data service for 2-way data transmission (send and received)
- ✓ Weather Adjustments – Sending forecasted and measured weather adjustments using Look-Ahead ET[™] (inches loss), cumulative depletion, and NWS weather forecasts with next day correction from measured ET data (patented) with receipt confirmation.
- ✓ Access to Central Control Internet Web Site – web access to adjust controller settings, perform remote programming, adjust runtimes for each station, ability to change watering days (on or off) and the number of start times from any web browser using an Internet connection.
- ✓ Monitoring Runtimes and Controller Settings – monitoring of irrigation operation via send/receive wireless data (2-way communication). Database management of daily runtimes, start/stop times, days of week, and number of cycles for each station/valve. Review of the data to identify deviations from initial baseline schedules. Review watering runtimes from weather adjustments to confirm activations and adjustments
- ✓ Savings Performance Tracking and Reporting – tracking of water usage from utility meter reads that measure irrigation usage and compare usage "before" versus "after" and correlate irrigation runtimes with usage data to flag anomalies or leaks. Compute dollar savings achieved from reduced usage using then current water rates.

SENSOR ACTIVATION OF PROGRAM #6

A temperature switch (or other "normally open" sensor switch) can be connected to sensor terminals of controller. When sensor contacts close, a watering cycle is initiated in program #6. The cycle will continuously repeat as long as the sensor switch remains closed. If the Frost Override Option (one of 9 programmable options) is used, programs 1 thru 5 will be suspended during the sensor activated operation of program #6. When the sensor switch opens, the watering cycle in program #6 will immediately stop and programs 1 thru 5 will be allowed to resume operation.

LIGHTNING BOARD OPTION

For added surge and lightning protection, an optional factory installed lightning protection board made by Control Tech USA, a leader in lightning protection technology, is offered.

Lightning board features include:

- ✓ 3 layer lightning and power surge protection for field wiring and 24 VAC supply
- ✓ User replaceable field side fuses
- ✓ Auto resettable 24 VAC fuses

REMOTE-READY OPTION

Controllers ordered with this option include a pre-installed DCI-1 cable for use with the TRC Commander and Sidekick remote control system from Remote Control Technology, Redmond, WA.

TECHNICAL SPECIFICATIONS

- ✓ Non-volatile memory holds program information during power outages of any length.
- ✓ Ten year lithium battery (included) keeps real-time during power outages.
- ✓ Electronic circuit breaker identifies and overrides shorted solenoid valves.
- ✓ Remote control connector for direct interface with the TRC2 remote control system from Remote Control Technology, Redmond, WA.
- ✓ Master valve/ pump start circuit.
- ✓ Lightning and surge protection.
- ✓ Wall or pedestal mounting. Pedestal sold separately.
- ✓ Weather-proof metal cabinet with lock and key.
- ✓ Pedestal made of heavy duty steel, rust resistant, weather-proof, and partition to separate valve wires from power supply wires.
- ✓ U.L. listed.

DIMENSIONS

Sterling 4, 8, and 12

Case: 10.69" W x 9.69" H x 4.44" D

Pedestal: 10.56" W x 27.625" H x 3.25" D

Sterling 18, 24, 30 and 36

Case: 14.00" W x 12.50" H x 5.60" D

Pedestal: 14.00" W x 35.50" H x 4.50" D

WARRANTY

Storm Manufacturing Group, Inc., Superior Controls Company, offers a warranty against defective parts and workmanship for 3 years. Water2Save, LLC warrants the wireless data communication against defective parts and workmanship for 3 years. Warranty does not include options which are manufactured by others.

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For more information go to www.water2save.com or contact sales@water2save.com.

Please visit http://www.water2save.com/WLS/SWAT_Perf_Sum_SMG_Superior_Controls_Sterling8_2008-7-15.pdf