SMARTLINE® CONTROLLER – SL800

U.S. PATENT NO. 6,314,340

MODEL DESCRIPTIONS	
SL800	4-zone base model, expandable to 8 zones
SLM2	2-zone module for use in the SL800

SL800 CONTROLLER

SLM2 MODULE

The Most Feature-Rich, Economical Controller *EVER!*

FEATURES

- 4-zone base model, expandable to 8 zones using slide-in SLM2 2-zone hot-swappable modules (Indoor rated)
- External transformer with plug-n-play barrel connector
- Skip circuit and slow blow fuse protection with green/red LED status indicator
- Large LCD display
- 2 run modes: Standard mode runs user input zone run times; Auto Adjust mode requires SLW Series On-Site Weather Station to calculate weather based run times that override user input zone run times
- Rain/Freeze sensor bypass/active button located on face panel displays sensor status with tri-color LEDs (red indicates sensor is prohibiting irrigation; orange indicates an extended rain delay after weather station rain sensor permits irrigation; green indicates normal operation)
- 4 programs: A, B, C; program D can operate concurrently
- 8 start times per program
- Nonvolatile memory and real time clock/calendar circuit to retain programs as well as correct date and time – with no battery required
- Zone run times settable from 1 min. to 9 hrs. 55 min. with operation countdown displayed in hours, minutes, and seconds (zone run times overridden by weather based calculated values in Auto Adjust mode)
- Watering day selections of custom days of the week, odd/even, or interval days
- Omit settings: omit time of day window, omit day(s) of week, and omit up to 7 calendar dates
- Seasonal % adjust by program, by month for simple year round water budgeting (monthly percentages overridden in Auto Adjust mode)

ADVANCED FUNCTIONS

- Fault review displays all faults, including open and shorted zones
- Diagnostic test function using on-board multi-meter displays transformer voltage; milliamp measurement for each zone
- Built-in valve locator function for locating hidden valves by simply listening for the audible chatter of the solenoid created by a unique electrical frequency (patent pending)
- Review menu displays accumulated ET deficits by zone (in inches) and corresponding zone run times for the next available watering day
- Review menu displays maximum run time and minimum soak time used during Auto Adjust mode
- Review menu displays temperature readings (daily high/low) for previous 5 days
- Review menu accumulates total run times by zone from the last reset date
- Review menu provides the ability to clear deficits for all zones
- Rain delay of 1 – 7 days may be selected (to pause and automatically resume operation)
- SLW weather station extended rain delay programmable from 0 – 99 hours
- Run/Soak cycles allow setting of maximum run time and minimum soak time by program for use in Standard mode only
- Zone-to-zone delay programmable for 1 min. – 3 hrs. to accommodate slow closing valves and recharging of water supply
- Master valve timing sequence with zone valve programmable by "On Delay" (1 sec. – 1 min.; 2 sec. default) and "Off Delay" (1 sec. – 3 min.; 5 sec. default) to allow for line fill and slow closing valves
- Master valve/pump start operation assignable On/Off by zone
- Clear program function to selectively delete an individual program
- Clear All function to delete all programs
- Backtrack Stored Program™ feature allows contractor to easily store a default program and retrieve the saved program in the event a customer improperly reprograms the SL800

AUTO ADJUST FEATURES

- ZIP Code input (5 digit) or Latitude input (±60° from EQUATOR) establish location of site for solar radiation calculation
- Sprinkler type input allows selection for zone sprinkler type (SPRAY, ROTOR, DRIP, BUBBLER) with preset precipitation rate or specific input of the zone precipitation rate (.2 – 3.0" per hour)
- Plant type input allows selection for zone plant type (COOL TURF, WARM TURF, SHRUBS, ANNUALS, TREES, NATIVE) with preset crop factors or specific input of the zone crop factor (10 – 300%)
- Soil type input allows selection for the soil type (CLAY, SAND, LOAM) and slope (0 – 25°) for the purpose of automatically calculating a run/soak period to virtually eliminate run off
- More/Less is settable by zone (-50% to +25%) for the purpose of fine tuning Auto Adjust run times to accommodate factors like shade, wind, and sprinkler inefficiencies

MANUAL OPERATION

- Manual test runs each zone with zone run times from 10 sec. – 10 min.
- Manual zone operation of a single zone (1 min. to 9 hrs. 55 min.)
- Push button manual start of a program from control panel

OPTIONS

- SLM2 Zone Module
- SLW Series On-Site Weather Stations (see page 33)
- SLRC and Sidekick Remote Controls (see page 34)
- 955 Rain Sense rain sensor (see page 35)

ELECTRICAL FOR SL800

Input:	120VAC/60Hz @ 250mA for 3 valves
Output:	28VAC, 720mA maximum
Fuse:	1.0A, slow blow

LIGHTNING WARRANTY

EXPORT

E-SL800 (EU Plug)	230VAC/50Hz
E-SL800A (Australia plug)	230VAC/50Hz

DIMENSIONS

7" W x 7 ¾" H x 1 ¾" D
17,8 cm x 19,7 cm x 4,4 cm