Technical Specifications
SL1600 SERIES CONTROLLER

FEATURES

- 4-zone base model, expandable to 16 zones using slide in SLM4 (Indoor/Outdoor rated)
- 4-zone hot-swappable modules
- Internal transformer with commercial terminal block, On/Off power switch and LED status indicator
- Large backlit 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
- Rain/Freeze sensor bypass/active button displays sensor status with tricolor LEDs (red indicates sensor is prohibiting irrigation; orange indicates an extended rain delay; green indicates normal operation)
- 4 programs: A, B, C, D Programs can operate stacked or concurrently
- 8 start times per program
- Nonvolatile memory and real time clock/calendar to retain programs and current date and time – no battery required
- Zone run times from 1 min. to 9 hrs. 55 min. with operation countdown displayed in hours, minutes, and seconds
- Watering day selections of custom days of the week, odd/even, or interval days (1 – 30 days)
- Omit settings: omit time of day window, omit day(s) of week, and omit up to 7 calendar dates
- Monthly % adjust by program, for simple year-round water budgeting

ADVANCED FEATURES

- Fault review displays all faults, including open and shorted zones
- On-board multi-meter displays transformer voltage; milliamp measurement for each zone
- Built-in valve locator chatters the solenoids (patent pending)
- Review menu displays ET deficits by zone and corresponding zone run times
- Review menu displays maximum run time and minimum soak times
- Review menu displays temperature readings (daily high/ low) for previous 5 days
- Review menu accumulates total run times by zone
- Programmable rain delay of 1 – 7 days
- 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.
- 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)
- Master valve/pump start operation assignable On/Off by zone
- Clear program function to selectively delete an individual program
- Backtrack Stored Program™ feature allows contractor to easily store a default program and retrieve the saved program

SmartLine Controller	
Model	**Description**
SL1600	16 Zone Modular Controller
SL1620	20 Fixed Zone Controller
SL1624	24 Fixed Zone Controller

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SL1600 SERIES CONTROLLER

CONTROLLER(S) shall be model SL1600, SL1620, or SL1624 as manufactured by Weathermatic Sprinkler Division of Telsco Industries. Controller(s) shall be a four (4) program controller with hot swappable 4-zone modules to allow expansion to 16 zones (SL1600) or fixed zone counts or 20 (SL1620) or 24 (SL1624).

OPERATION: Controller(s) may be programmed to operate with either user supplied station run times or automatically calculated station run times based on SLW weather station data, sprinkler type, plant type, soil type and slope. Automatic water conservation shall be available using either twelve programmable monthly seasonal percentage adjustments or automatic ET based adjustments based on SLW series weather station real-time, on-site climate data. The user may select to move between timed station mode or ET mode without loss of programming information. Each program shall have eight independent start times, calendar schedules, watering budgets, and cycles for varying sprinkler types and soil percolation rates. Controller shall have a user-selectable cycle and soak feature, by program, and fully automatic cycle and soak based on sprinkler precipitation rates, soil type and slope for reduction of run-off. The controller shall be capable of storing a user-created default program which may be retrieved at a later date to replace any overrides or adjustments to scheduled operation. Controller shall have a standard pump start or master valve output which shall be programmable to operate on demand from any selected controller station. A programmable pump start/master valve delay shall be included in the pump circuit.

Controller shall have input for rain and freeze sensor devices. Use of the optional SLW weather monitor shall incorporate the rain and freeze shutdown functions and shall incorporate a 48-hour delay after closure of the rain sense switch.

Controller shall have self-diagnostic capabilities to detect “short” or “open” zones and the ability to display lists of faults on an LCD display for the user. Diagnostics shall also include LCD display of volt/amp readings by zone and for transformer output as well as backup battery reading. A chatter function shall also be provided to assist in locating buried valves. The controller shall automatically prevent master valve opening or pump start when the valve locator diagnostic is used.

Display shall be backlit for clear viewing in all lighting conditions. Zone timing shall be settable from 1 minute to 9 hours and 55 minutes.

Program D shall operate concurrently with programs A, B and C. Programs A, B and C shall stack in sequence of start time operation.

Program schedules shall include options for days of the week, odd date, even date or an interval of 1 to 30 days. A ‘no water’ window shall be available to inhibit daily operations of a program between two selected times on a given day; omission of up to 7 specified calendar dates or specific days of the week. Adjustments for leap year shall be automatic.

Manual operation shall be provided by program, by station, or on a programmable test program with durations from ten (10) seconds to ten (10) minutes. The programmable test program shall also check for short and open conditions on each zone each time it is run.

Non-volatile memory shall retain all programming and real-time clock shall be provided to maintain date and time.

WARRANTY: The SL1600 Series controller shall have a manufacturer’s limited warranty of (2) two years.

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