

Technical Specifications

PL1600 SERIES CONTROLLER

FEATURES

- 4-zone base model, expandable to 24 zones using slide in SLM4 (16 zones) or SLM12 (24 zones) - (Indoor/Outdoor rated)
- 4-zone or 12-zone hot-swappable modules
- Internal transformer with commercial terminal block, On/Off power switch and LED status indicator
- Large backlit LCD display
- 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 maximum run time and minimum soak times
- Review menu accumulates total run times by zone
- Programmable rain delay of 1 – 7 days
- Rain Sensor 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
- Two Master valve(s)/pump start(s) 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 PL1600



ProLine Controller	
Model	Description
PL1600	16 or 24 Zone Modular Controller
PL1620	20 Fixed Zone Controller

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CONTROLLER(S) shall be model PL1600 or PL1620 as manufactured by Weathermatic Sprinkler Division of Telsco Industries. Controller(s) shall be a four (4) program controller with hot swappable 4-zone or 12-zone modules to allow expansion to 24 zones (PL1600) or fixed zone counts of 20 (PL1620).

OPERATION: Each program shall have eight independent start times, calendar schedules, watering budgets by month and a soak/cycle for varying soil percolation rates.

Controller shall have a pump start/ master valve position which shall be programmable to operate on demand from any selected zone. A programmable safety delay shall be included for zone to zone delay and master valve to zone delay for opening and closure. Controller shall have input for rain and freeze sensor devices. Use of the optional RFS5 Rain/Freeze Sensor 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.

All programs shall have the ability to operate concurrently or in a stacked sequence with independent 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 PL1600 Series controller shall have a manufacturer’s limited warranty of (2) two years.