

Automatic Controller(s) shall be the PC Control Series with 12, 24, 36 or 48 available stations (up to four 12-station controllers in one system) as manufactured under the brand name Irritrol to be installed or wired in accordance with manufacturer's published instructions.

Operation: Controller(s) shall be programmable through the use of a personal computer with an interactive graphic user interface (GUI) that utilizes digital photos of the irrigation zones in the owner's yard and/or garden and shall provide week-at-a-glance and month-at-a-glance program visibility as well as point-and-click and drag-and-drop methods of placing and adjusting stations with the computer's mouse and cursor. From the computer, system capabilities shall include but shall not be limited to, establishing, storing and transmitting automatic irrigation programs, running real time status checks and commanding manual operations. The system shall provide 2-way, wireless communication between the personal computer in the owner's home and the indoor controller(s) elsewhere on the property. PIN numbers (from 0001 to 9999) shall be selectable for unique system addresses to prevent interference from similar systems or unauthorized access. The current schedule shall be stored in the controller's non-volatile memory, to allow the computer to be used for other purposes, as well as in the PC's program. A remote control device shall be included and required for system communication and shall be connectable to the PC via a USB cord or used, handheld, for manual commands to the controller while on site. The remote's range shall be up to one thousand (1000) feet, line of sight.

Through the personal computer, the control system shall be internet connectable and shall provide access to program updates and help line(s) and shall provide the capability of attaching an irrigation schedule to a message for email transmission. Also through the PC, the system's Scheduling Advisor[™] shall provide a method for retrieving weather information over the internet and manually or automatically applying the information to the irrigation schedule of any selected zone(s).

The schedule for each of the controller's stations shall be independent of the others with, per zone, water day options of any-days-of-the-week, Odd or Even date or day interval watering with a range from "1" (every day) to "30" (water every 30 days) in 1-day increments. Any days of the week shall be selectable as non-water days. Each station shall have ten (10) available start times per day, each of which shall be independently adjustable for duration of running time. Each stations timing range shall be from one (1) minute minimum up to 24 hours. A water budget feature shall be available for adjusting the station run times for the entire system by percentages as well as a "Wetter/Drier" slide adjustment per station. In addition to controlling irrigation, the system shall offer the option of one station per controller for landscape lighting switch control. A designated landscape lighting station shall not respond to a rain sensor, to the Scheduling Advisor[™], to Odd/Even date or day interval schedules or to "non-water day" settings. The PC Control system shall be compatible with a normally-closed rain sensor. In the case of a multiple-controller system, only one sensor is required and shall be connected to

the controller designated as number one (#1) in the set up process. Indication of irrigation shutoff via sensor shall be viewable at the PC, at the handheld remote and at the controller. Controller shall have a master valve/pump start circuit assignable to individual stations or to the entire system. Delay between station operations, as selected by the operator, shall be visible on the weekly schedule field.

Construction: The system shall consist of a disk with software, the remote control device, its desktop stand and USB cord and indoor controller(s). The remote device and the controller(s) shall be made of durable, impact resistant plastic. Controller(s) shall utilize a plug-in-style transformer.

Electric: Transformer input shall be 120 VAC, 60Hz for domestic models and shall have an output of 24 VAC (30VA). The maximum output per station shall be 24 VAC, .4amp. Maximum total output shall be 24 VAC, 1 amp including the master valve. Station load capacity shall be the master valve circuit, one irrigation zone valve and an additional 0.1 amp for an Irritrol SR1 relay for landscape light switching. Controller(s) shall have a diagnostic circuit breaker system that shall sense an electrical short circuit in the valve solenoids or field wires, shut off the “shorted” station, post an alert for the user and continue to water operable stations as scheduled.