

WaterOptimizer Model 300

Data Sheet

V.1.0



U.S. & Foreign Patents Pending

SYSTEM FEATURES

Expandability

- Base controller can control up to 12 zones and can be expanded up to 48 zones
- Equipped two (2) RS-232 ports for ease of expandability
- 12 Moisture sensors expandable to 48 sensors
- Can accommodate other standard 4-20mA sensors/meters including flow meters, pressure indicators, etc.

Programmability

- 6 modes of operation: Runtime mode, Sensor mode, and Weather (ET) mode, each with or without Pulse (cycle-soak)
- Large 4 line x 40 character display for easy-to-read programming and operation
- 12/24 hour real time clock and calendar
- 4 automatic programs with up to 4 start times per day
- User adjustable runtimes, 0-4 hours in 1-minute increments
- Test mode for easy system checking during installation
- Intuitive menus and screens makes programming easy for installers and users
- Remote over-the-air firmware/program upgrades

Professional Grade

- Compatible with any industry standard 24 VAC irrigation solenoid valves
- NEMA 3 enclosure designed for indoor or outdoor installations
- Electronic short circuit protection on all solenoids and moisture sensor connections
- Transient/surge and lightning protection on 24 VAC line
- Electrostatic Discharge (ESD) and surge protection on moisture sensors' analog-to-digital inputs
- Non-volatile (EEPROM) memory assures program and user configurations are maintained for up to five (5) years without battery power or during power outages
- Controls 1 Pump/1 Master Valve and 12 zone valve outputs
- Controller can power up to three (3) solenoids per zone
- Moisture sensors and zones solenoids can be wired 1000 feet away from the controller

WIRELESS NETWORKING AND SYSTEM-WIDE WEB BASED CONTROLS

- Designed for large network systems: Optional mesh network radio allows irrigation controller to be part of wireless network for complete system wide control of irrigation systems
- Web portal service for monitoring, control, and troubleshooting all WaterOptimizer irrigation controllers equipped with wireless radio

MECHANICAL SPECIFICATIONS

Enclosure Dimensions

- Width: 11.4 inches
- Length: 9.25 inches
- Depth: 4.5 inches

Weight

- 7.5 lbs

ELECTRICAL SPECIFICATIONS

Controller Input

- Internal Transformer (30 VA)
- Transformer Input: 110/120 VAC, 60Hz
- Moisture Sensor Input: 4-20 mA at 24 VDC

Controller Output

- Transformer Output: 24 VAC, 1.25 A, (30VA)
- Station Output: 24VAC, 0.45 amps per station
- Maximum Output: 24VAC, 0.9 amps (includes one Zone Valve, Master Valve and Pump)



www.Water-Optimizer.com