

TORO

EVOLUTION® SERIES CONTROLLER

**WATER
SMART**

Introducing the next generation in controllers! With an intuitive interface and exclusive features for “smart” control, the Toro® EVOLUTION® is an easy choice for residential and light-commercial applications.

FEATURES & BENEFITS

Revolutionary Interface

The EVOLUTION controller’s user interface was designed with the customer in mind. Shortcut buttons provide quick access to basic functions while the advanced menu leverages the experience and knowledge of the irrigation professional, all shown on a graphics display that navigates similar to many modern consumer electronic devices.

Easy Upgrade to Integrated Smart Control

An optional Smart Connect® device plugs into the timing mechanism, enabling it to wirelessly communicate directly with a number of add-on devices—including a weather sensor, handheld remote, multiple soil sensors, and up to two wireless relays.

Computer-programmable with USB Drive

Simple-to-use software allows you to program everything at a computer. Use a standard USB drive to transfer programming to one or more controllers in a matter of seconds. Create custom schedules or utilize the easy-to-use wizard to generate schedules based on historical watering requirements of your location.



Rain
Sensor
Compatible



PSS-KIT
Compatible



When equipped with
Smart Connect®
wireless ET sensor



12-station configuration
with (2) 4-station modules



16-station configuration
with (1) 12-station module

WATER MANAGEMENT HIGHLIGHT



Smart Connect® Add-On Devices

Simply plugging the Smart Connect® into the EVOLUTION® controller allows it to communicate wirelessly with a number of add-on devices, providing a great opportunity to upgrade with a number of different water-saving and time-saving options.



Toro® Smart Connect® Plug-In Receiver

Installs easily on the backside of the EVOLUTION® controller's front panel. No wires, no externally mounted receiver. One Smart Connect® Receiver is all that is required to communicate to all Add-On Devices.



SMRT Logic™ Internet Gateway

Control from anywhere using cloud based web and mobile apps. Setup is made easier without the need of Wi-Fi passwords and with three times the range of most competitive products.



Wireless Weather Sensor

Uses live temperature and solar measurements as well as historical weather data for your location to calculate the amount of water needed from the irrigation system.



Handheld Remote

Backlit display makes maintenance checks a snap, day or night, allowing you to run sprinklers or schedules from up to 1000 feet away.



Precision™ Soil Sensor

Up to three soil sensors can be used (one per schedule) to monitor the moisture level in the soil and prevent over- and underwatering. With up to a 500 feet wireless range, there's no digging required to install.



Wireless Auxiliary Relay

Up to two wireless relays can be used to turn on lighting, pumps, or fountains, just to name a few possibilities.



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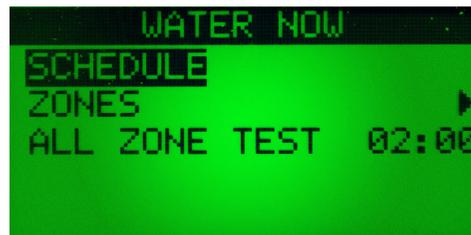
Controller Interface

The EVOLUTION controller's interface is a system of informative yet easy-to-understand screens that are quickly accessible using the controller's shortcut buttons.



Standard Functions

The Standard menu gives the homeowner access to the most fundamental functions of the controller, such as manual watering, setting watering days and start times and adjusting the amount of irrigation, all directly accessible through dedicated shortcut buttons.



Water Now Screen

Allows the user to begin watering with as few as just two button presses, with the option of starting a specific schedule, specific zone(s), or watering all zones in series.



Review Screen

At-a-glance summary showing which days the controller is going to water in the next seven days for the schedule you select. Lets the user know how the irrigation will run.



Advanced Functions

The Contractor has full access to the power of the EVOLUTION controller, including the ability to set up multiple irrigation and auxiliary schedules, create custom grow-in schedules, and configure any "smart" add-on devices – all operations that may otherwise overwhelm a homeowner.



Apply Sensors

The screen allows the user to easily view and configure all the sensors available to the controller, including rain, ET, and soil.



Grow In Screen

Allows the user to set up a grow in schedule for a user-defined period of time (up to 90 days), after which the controller will default back to its normal irrigation schedule(s).

Other Examples



Home Screen

Displays the current time and date, what zones are scheduled to water next, or if currently watering, what zone(s) are currently watering and how much time is remaining, as well as any alerts – in the absence of any alerts, the screen will display "SYSTEM OK."



Contractor Message Screen

Allows the contractor to input a custom message with their name and contact information into the controller from the software via a USB drive so it is visible to the homeowner when they press the "Help" button.

EVOLUTION SERIES MODEL LIST

Model	Description
EVO-4ID	4-station Indoor Controller
EVO-4OD	4-station Outdoor Controller
Add-ons and Accessories	
EMOD-4	4-station Expansion Module
EMOD-12	12-station Expansion Module
EVO-SC	Smart Connect® Plug-In Receiver
PSS-SEN	Wireless Precision™ Soil Sensor Probe Only
EVO-WS	Wireless Weather Sensor
EVO-HH	Wireless Handheld Maintenance Remote
EVO-AR	Wireless Auxiliary Relay
SMRT-T	SMRT Logic™ Internet Gateway

Programming Features

- ✓ One schedule in the default "STANDARD" mode
- ✓ Up to six schedules in "ADVANCED" mode:
 - Three irrigation schedules, four start times per schedule
 - One wired auxiliary schedule, plus two optional wireless auxiliary schedules
- ✓ Three scheduling choices:
 - Seven-day calendar
 - 1- to 30-day interval with up to seven day exclusions
 - Odd/even days with up to seven day exclusions
- ✓ Monthly season adjust by schedule
- ✓ Schedule stacking, with automatic split cycle when watering adjustments are greater than 100%
- ✓ Grow-in schedule settable up to 90 days, automatically reverts to regular irrigation schedule
- ✓ Station runtimes from one minute to twelve hours
- ✓ Allows 30, 60, or 90 second manual runtimes for things such as winterization/blowouts
- ✓ Programmable well-recovery/station-delay from 10 seconds to 30 minutes
- ✓ Pump start delay from 10 seconds to 30 minutes
- ✓ Master valve ON/OFF by zone
- ✓ Timed water off from one to fourteen days
- ✓ Compatible with normally-closed rain sensors
- ✓ Automatic short detection for circuit protection and faster troubleshooting
- ✓ Non-volatile memory doesn't require batteries and holds programming for up to five years
- ✓ Diagnostic zone test measures and displays current draw of solenoid and identifies short, over current and open conditions

SPECIFICATIONS

Electrical

- Electrical input power:
 - 120 Vac
 - 30 VA maximum
 - UL, CUL Listed
- Station output power:
 - 24 Vac
 - 0.75 amps per station maximum
 - 0.75 amps pump/master valve
 - 1.0 amps total load
- Surge Protection:
 - 6.0 KV common mode; 1.0 KV normal mode
- Operation of two solenoids per station

Dimensions

- 11 1/4" W x 7 3/4" H x 4 1/4" D
- Weight: 4.5 lbs.

Warranty

- Five years

Hardware Features

- ✓ Backlit display
- ✓ 4-station base; expandable to 16-stations with 4- and 12-station hot-swappable modules
- ✓ Powerful transformer can run up to 4 standard solenoids at once
- ✓ Cabinet easily mounts to the wall through two easily-accessible screw holes on the upper left-hand and right-hand sides of the controller
- ✓ Red LED next to display lights in the event of an alert
- ✓ Battery on the timing mechanism for "ARMCHAIR" programming
- ✓ Outdoor key-lock cabinet manufactured out of durable UV-resistant plastic and includes standardized key used on many of the most popular controllers
- ✓ Indoor cabinet includes internal transformer and factory installed power cord

Specifying Information- EVOLUTION® Series

EVO-XX-XX-SC			
Description	Cabinet Type	Module	Connector Options
EVO-4	XX	XX	SC
EVO-4 – EVOLUTION Controller	ID – Indoor OD – Outdoor	4 – No Additional Modules 8 – One, 4-Station Modules 12 – Two, 4-Station Modules 16 – One, 12-Station Module	SC – Smart Connect®
Example: A 16-station EVOLUTION controller in an indoor cabinet with the Smart Connector would be specified as: EVO-ID-16-SC			



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Specifications subject to change without notice. For more information, contact your local Toro distributor.

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