

RC2 Fixed Station Controller

RC2 Series Controllers

TECHNICAL SPECIFICATIONS



Rain Bird's controller lineup has been expanded to offer a contractor grade, mobile first irrigation controller for residential and light commercial applications. The RC2 Controller will accommodate up to 8 stations plus master valve/pump start relay and is suitable for indoor or outdoor applications. The RC2 provides flexible scheduling features to accommodate a wide variety of landscape applications. Powerful advanced irrigation features help meet any type of regional watering restrictions.

EASY TO USE AND INSTALL

The RC2 Controller provides simple commands at the controller interface that are complemented by advanced scheduling features accessed through the Rain Bird mobile app. The RC2 Controller requires only two screws for easy wall mounting. For professional installation, it has a guide for 1/2" or 3/4" conduit to run field wires into the unit.

FEATURES:

- Seamless mobile pairing with intuitive app-based programming.
- LED indications at the controller give the user quick indication of status
- Rain sensor input with bypass capability
- Master valve/pump start circuit
- Nonvolatile (100 year) storage memory
- Quick Pair broadcast mode
- Hotspot Direct Connect for contractor on-site access
- Electronic diagnostic circuit breaker

SCHEDULING FEATURES:

- Program based scheduling with 3 individual programs and 4 independent start times per program for 12 total start times
- Watering schedule options: Custom Days of the week, ODD or EVEN calendar days, or Cyclic (every 1 – 30 days)

OPERATING SPECIFICATIONS:

Station timing

1 minute to 6 hours

Seasonal Adjust

5% to 200%

Max operating temperature

149°F (65°C)

CONTROLLER HARDWARE:

- Plastic wall-mount cabinet with door
- Robust set screw terminals to accommodate up to 8 stations plus master valve
- Mounting screws with anchor shields

ELECTRICAL SPECIFICATIONS:

Input required

230VAC (±10%) @ 50Hz

Output

Nominal: 0.82A at 24VAC
Maximum: 1.0A at 24VAC

- Master Valve/Pump Start Relay
- External battery back-up not required. Nonvolatile memory permanently saves the current programming.

DIMENSIONS:

Width: 7.92 in. (20,1 cm)
Height: 7.86 in. (20,0 cm)
Depth: 3.51 in. (9,0 cm)

HOW TO SPECIFY:

RC2 Models

RC2-230V
RC2-AUS

CERTIFICATIONS

- CE, UKCA, ACMA RCM
- IP24
- WaterSense certified
Meets EPA criteria for high-performing, water-efficient products.

WIRELESS COMMUNICATIONS SPECIFICATION:

Product incorporates a 3rd party radio module certified under EU Directive 2014/53/EU to have the following specifications:

- WiFi: 2.4GHz Band IEEE-802.11 b,g,n
- Operating frequency band:
Wi-Fi 2412-2472 MHz Bluetooth/LE: 2402-2480 MHz
- Maximum radio-frequency power: 19.22 dBm
- Antenna type: PCB antenna
- Antenna gain: 3.4 dBi

The Rain Bird logo, featuring the words 'RAIN' and 'BIRD' in a bold, green, sans-serif font, with a stylized bird in flight between the two words.

ADVANCED FEATURES AVAILABLE THROUGH THE RAIN BIRD APP:

- Manual Watering option for all stations, a single station or an individual program
- Seasonal Adjust applied to individual programs
- Delay Watering up to 14 days (applies only to stations set to obey Rain sensor)
- Cycle and Soak for each station on any program
- Ability to bypass or activate rain sensor
- Program templates for the fastest programming experience
- Predictive weather delays based on forecasted weather for the user location
- Automatic short detect with station specific alarm messages

SPECIFICATIONS:

The RC2 Controller is designed to provide the user with a mobile-first interface that can be programmed through the Rain Bird mobile app with or without WiFi available on-site. The controller shall be capable of fully automatic or manual operation. The controller shall be housed in a wall-mountable, weather resistant plastic cabinet with lockable door (lock not included).

The controller shall have 3 independent programs that allow 4 different start times per program. Firmware programming shall automatically stack multiple start times in sequence to prevent hydraulic overload. All programs shall run consecutively.

Watering day schedules shall be: Custom Days of the Week, Odd or Even calendar days and Cyclic (such as every 2 days, or every 3 days, etc.) Station run times shall range from 1 minute to 6 hours.

The controller shall automatically synchronize the date and time based on the user location.

The controller shall offer Manual Watering locally at the controller by pressing the Manual button. The mobile app shall offer Manual Watering options including all stations, individual stations or individual programs. When manual watering is triggered, the unit shall ignore the status of a rain sensor (if connected) and re-enable the sensor when manual watering is completed.

The controller shall have a Seasonal Adjust feature to adjust the run time from 5% to 200% in 5% increments. Seasonal Adjust shall be capable of being applied to all programs simultaneously or to individual programs.

The controller shall have a Delay Watering feature that can override and suspend programmed watering for up to 14 days.

The controller shall provide the ability to clear all programming and reset to factory default settings if desired.

The controller shall provide a method for the operator to save an irrigation schedule into nonvolatile memory.

The controller shall be capable of operating one 24VAC solenoid valve per station plus a separate master valve or remote pump start relay.

The controller shall operate on 230VAC ($\pm 10\%$) at 50Hz. If connected, a master valve or pump start shall operate on 24VAC at 50Hz.

The controller shall have an electronic diagnostic circuit breaker that can detect if a station has an electrical overload or short circuit condition. The controller shall then bypass the error detected station while continuing to operate all other stations.

The controller shall have a reset button to re-boot the factory default firmware, in case of controller interface "freezing" due to a power surge or interruption of power to the power supply.

The controller shall be an EPA WaterSense approved smart controller without requiring additional accessories.

The controller shall provide an option for the installer to run field wires through a 1/2" or 3/4" wire conduit fitting, allowing for a clean, professional installation.

Suggested accessories for use with this controller:

- Rain Bird RSD Series Rain Sensors
- Rain Bird WR2 Wireless Rain/Freeze Sensors
- All Rain Bird residential and commercial rotors, valves, nozzles, sprays and drip products

The RC2 controller shall be manufactured by Rain Bird Corporation in a NAFTA member country.

At the controller interface the customer shall have the ability to set the controller in either Auto or Off status, manually run each station for a duration of 10 minutes, and advance stations in the run queue.

The controller shall be capable of broadcasting Quick Pair to quickly and seamlessly program the user SSID and password.

The controller shall be capable of transitioning from WiFi connection to AP Hotspot to access controller programming and features.

The user shall have the ability through the compatible mobile app to set the controller in either Auto or Off status.

When connected to WiFi, the controller shall provide predictive weather delays to prevent irrigation when rain, freezing temperatures and/or wind are in the forecast.

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