

**RAIN BIRD 1 Bluetooth Battery Operated Controller**



# RAIN BIRD 1 Bluetooth Battery Operated Controller Instructions

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**RAIN BIRD 1 Bluetooth Battery Operated Controller**



## **BAT-BT CONTROLLER FEATURES**

- Available in 4 models: 1, 2, 4, or 6 stations
- Dedicated master valve/pump output on all station models
- Run time is from 7 seconds to 9 hours (max 18 hours with 200% seasonal adjustment) in 1-second increments
- Run-off management with Cycle and Soak. Available down to 7-second cycles
- Basic programming includes:
  - Independent programs A, B, C, and D
  - 8 start times per day
  - 5 watering day cycle modes (custom, even, odd, odd-31, cyclical)
- Permanent days off by program so no irrigation takes place on certain days of the week for maximum flexibility and watering restriction compliance
- Stations can be assigned to several programs with different watering run times
- Independent station operation allows sequential start times (with stacking in case of overlap)
- Global Monthly Seasonal Adjust; 0% to 200% (1% increment)
- Rain Delay from 1 to 14 days
- Operates one valve per station
- Direct Rain Sensor Connection accommodates the Rain Bird RSD-BEX Rain Sensor
- Rain Sensor shutoff can be programmed globally or by station
- The wireless battery compartment utilizes four AA alkaline batteries (AA, LR6, LR06): batteries not included
- Battery life is 3-5 years with 4 high-quality AA batteries depending on a watering schedule
- A backup program may be saved and restored (manually or automatically for Contractor Default capability)
- No loss of irrigation program after a battery replacement
- Up to 15 calendar days off per year
- Short and open circuit detection
- PIN code protection
- Resists humid and harsh environments

## **RAIN BIRD APP FEATURES (BAT-BT):**

- Low-battery indicator warns of failing batteries in the BAT-BT Controller
- 4 local irrigation programs may be saved and restored from app
- Erase the controller's station programs or all programs
- Capability to review the irrigation program
- Map devices with pin shortcuts to:

1. Share Device
2. Edit Controller Screen
3. Manual Irrigation
4. Change Address
5. Battery Status
6. Bluetooth Status
7. Delete Controller

- Custom names and images for controller and stations
- Share the device to a team member:

1. Device Name
2. Station Name/Settings
3. Programming
4. Location
5. Offline Changes

- Offline mode for app access of last known settings. Make, save, log, and share offline changes for synchronization when you or your team member are back in Bluetooth range.
- Available for Android™ and iOS® devices
- Without Bluetooth connection, view last known:

1. Connection Date
2. Battery Status
3. Controller Status
4. Program Settings
5. Station Settings
6. Mapped Location

- The user interface is also available in Arabic, Bulgarian, Chinese, Czech, Dutch, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, and Turkish

## DIMENSIONS

- **Width:** 5.6" (14.22 cm)
- **Height:** 4" (10.16 cm)
- **Depth:** 2.5" (6.35 cm)

- **Weight:** 24 ounces (680g) including batteries
- Maximum wire run between the controller and TBOSPSOL solenoid: 250 ft (76.2 m) by using 18 AWG (1.024 mm) extended wire

## **CERTIFICATIONS**

### **Product Compliance**

- European Union: CE
- United Kingdom: UKCA
- Australia and New Zealand: ACMA-RCM
- USA: UL-US, FCC Part 15b & 15c, Bluetooth SIG Qualification
- Canada: C-UL, ICES-003, ISED RSS-247
- Mexico: NOM, IFETEL
- Brazil: ANATEL
- Japan: MIC
- Saudi Arabia: CST
- South Africa: ICASA
- UAE: TDRA, ECAS-ROHS
- Egypt: NTRA
- IP68: Total protection against solids and water ingress

### **RF Specification**

- y Operation frequency band: Bluetooth, 2402-2480 MHz
- Maximum radio-frequency power:
  - 9.66 dBm (for EU and UK)
  - 9.95 dBm (for USA and Canada)
- Antenna type: PCB antenna
- Antenna gain: 2.35 dBi

## **HOW TO SPECIFY**

### **BAT-BT Bluetooth® Battery-Operated Controller Models**

- ESPBAT-BT1 – One Station
- ESPBAT-BT2 – Two Station
- ESPBAT-BT4 – Four Station
- ESPBAT-BT6 – Six Station
  - All models come with a dedicated MV wire
  - All models have sensor ports and wire
  - One and two station units have one common wire. Four and six station units have two common wires.

### **BAT- BT SYSTEM ACCESSORIES**

Potted Latching Solenoid y All BAT-BT Series controllers must connect to a 9-volt DC latching valve solenoid

## **RAINBIRD® COMPATIBLE VALVE SOLENOID**

TBOSPSOL – 9-Volt Potted DC

### **Latching Solenoid**

- Two 0.75 mm<sup>2</sup> wires (18 gauge) are supplied: 60 cm long (23.6 inches)
- Fits Rain Bird valves: DV, DVF, ASVF, PGA, PEB, PESB, EFB-CP, BPE and BPES series
- 10 bars (150 psi) maximum operating pressure

### **Solenoid Adapters**

- TBOSADAPP: Solenoid Adapter for select non-Rain Bird valves to be compatible with Rain Bird TBOSPSOL 9-volt potted DC latching solenoid y Black Adapter: Allows BAT-BT compatible DC latching solenoid (TBOSPSOL) to be used with selected Irritrol (Hardi/Richel) and Buckner Valves
- Brown Adapter: Allows BAT-BT compatible DC latching solenoid (TBOSPSOL) to be used with selected Champion and Superior Brass Valves

### **RSD-BEX Rain Shutoff Device**

- Easy to install
- Operates with 24V or 9V controllers, including BAT-BT
- Designed to save water by automatically measuring precipitation and keeping irrigation systems from watering in rainy conditions
- Does not interrupt irrigation taking place, but subsequent program starts will be prevented
- Automatic return to normal watering schedule when the moisture level decreases as a result of natural evaporation

## **SPECIFICATIONS**

### **BAT-BT Controller**

The irrigation controller shall be programmable from the Rain Bird Smartphone App. The programs and manual operations shall be communicated to the controller from a smartphone via Bluetooth. The controller shall be housed in an outdoor-rated plastic cabinet and shall be potted to ensure waterproof operation. The battery compartment shall be sealed to prevent water from entering the compartment. The controller shall have one mounting slot for an included screw or zip tie allowing the controller to be securely mounted inside a valve box. The controller battery compartment shall be wireless and designed to accommodate four AA alkaline batteries (AA, LR6, LR06) for three full years regardless of the number of valves utilized. The customer can expect a maximum of 5 years of battery life.


The controller shall operate (1, 2, 4, or 6) stations. One sensor input shall be present on the controller and shall accommodate a dry contact rain sensor. -station (1-, 2-, 4-, or 6-) models shall be able to support a Master valve. All valves shall affect the Master Valve /Pump. The controller shall have station run time capability from 7 seconds to 18 hours in 7-second increments, a 365-day calendar with leap year, up to 15 calendar days off a year, plus four programs A, B, C, and D with eight start times each. One valve can be assigned to none, one, any, or all programs. Each program shall be capable of being set to any of the following: custom cycle (days of the week), cyclic (1 to x days variable), odd days, odd days-31, and even days, with the ability to set permanent days off. The controller shall have a program level and global Monthly Seasonal Adjust; 0% to 200% (1% increment). A Rain Delay shall allow the user to suspend irrigation programs from 1 to 14 days. The controller shall be capable of

starting/pausing/stopping a manual single valve or manual program, canceling irrigation in progress, or launching a test valve via Bluetooth from the Rain Bird app. Each valve not activated during the last 24 hours shall be automatically activated for 1 second each day for an anti-calcium effect.

**BAT-BT Potted Latching Solenoid**

Controller station output shall drive one single potted latching solenoid that shall fit onto any Rain Bird valves: DV, DVF, ASVF, PGA, PEB, PESB, EFB-CP, or BPE or BPES series valve. The controller and Potted Latching Solenoid shall be as manufactured by Rain Bird Corporation, Glendora, California, USA.

**Documents / Resources**



[RAIN BIRD 1 Bluetooth Battery Operated Controller](#) [pdf] Instructions  
1 Bluetooth Battery Operated Controller, Bluetooth Battery Operated Controller, Battery Operate  
d Controller, Operated Controller, Controller

**References**

- [🌿 Rain Bird | A Global Irrigation Company](#)
- [User Manual](#)

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