K RAIN

BLUE™
Bluetooth Battery Powered Controller

INSTRUCTIONS FOR USE

K RAIN BLUE

GET THE APP
Using the camera on your smartphone, scan a QR code to get the free BLUE app ⟶

App Store

Google Play

The BLUE battery powered irrigation module communicates with the
K-Rain BLUE Application on a smartphone or tablet by using Bluetooth technology
on an iPhone with iOS version 10 minimum or an Android phone/tablet with
Lollipop version 5 or higher.

IMPORTANT:

⚠ For use only with 9V DC Latching Solenoids. As some solenoids will come from the manufacturer with the plunger already magnetically latched open, some zones will default to **OPEN.** *Follow the start-up procedure for systems with DC Latching Solenoids.* (Page 17)

⚠ For changes made to the program in the Mobile App, you must tap the **ARROW** button (top right corner). The Application aggregates changes and transmits them to the controller when you have finished programming.

⚠ Programs A, B, and C are independent programs, including start times, run times, watering days, and water budget.

1. Install the App on your smartphone or tablet:
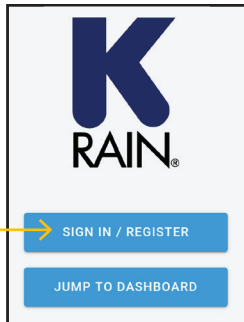From the App Store 🍎 or Google Play ▶ Install the free K-Rain BLUE App: 🔷

2. Install one or two 9 Volt Batteries in the Controller:
Unscrew the cap, remove the seal and fasten the battery or batteries to the correct terminals. Replace the seal and cap and hand-tighten the cap to ensure it seals.

NOTE: Before you launch the App, you will need to enable locations services on your phone/tablet in order for the App to geolocate your device during installation. On Android, location services must be enabled in order for the App to connect to the BLUE device.

3. Launch the App and Create an account:
Launch the app from your device and the first thing it will ask you is to create (or register) an account or Sign in. Click here.
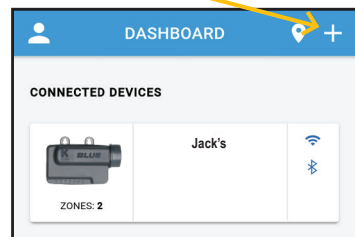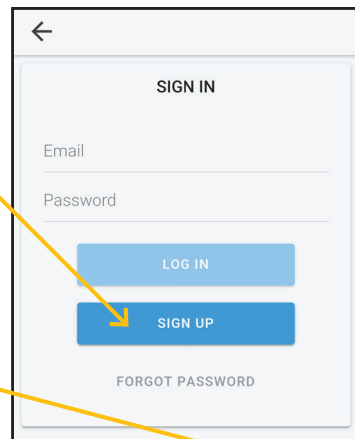
4. Creating your account:
Enter your email address and create a password, then push SIGN UP. This will bring you to the REGISTER page. Fill in the information and push SIGN UP. Once you have logged in on a device, the system will skip this screen and go straight to the dashboard.
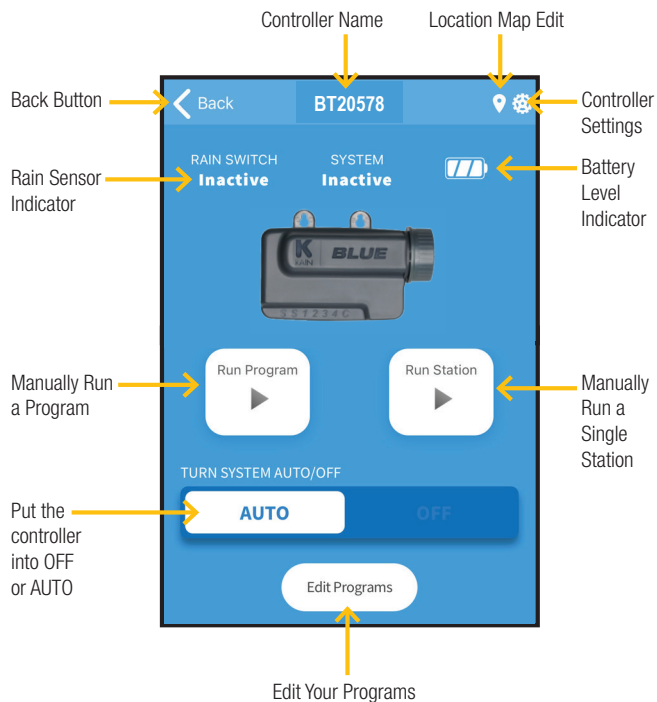
5. Adding a device:
Push the + in the upper right hand corner to add a controller. Your device will search for available controllers and display them here. Once the controller is paired with your device, it will appear here on the dashboard until unpaired.

NOTE: You can associate hundreds of devices with the K-Rain BLUE App. The number of devices is limited by the internal memory on the smartphone/tablet.

NOTE: When connecting to a new controller, a firmware update may be required.

6. Controller Home Screen Layout:

Controller Name

Location Map Edit

Back Button

Rain Sensor Indicator

Controller Settings

Battery Level Indicator

Manually Run a Program

Manually Run a Single Station

Put the controller into OFF or AUTO

Back

BT20578

RAIN SWITCH
Inactive

SYSTEM
Inactive

Run Program

Run Station

TURN SYSTEM AUTO/OFF

AUTO

OFF

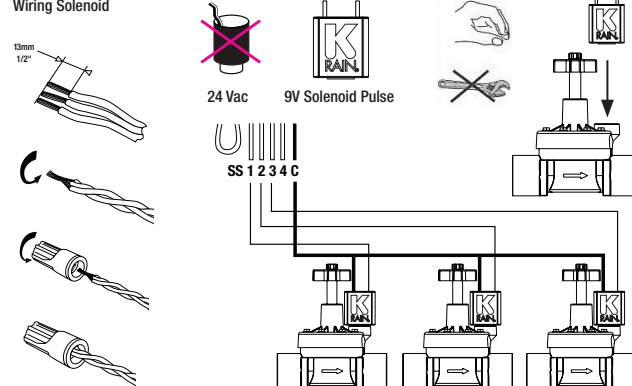Edit Programs

Edit Your Programs

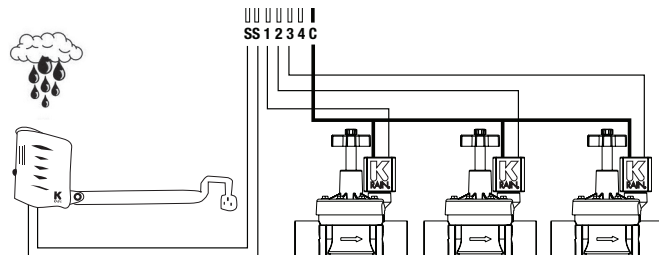## CONNECTING SOLENOIDS/ACCESSORIES:

1. Mount the unit in/on the valve box.

2. Use only 9V solenoid pulse coils (K-Rain part number P3008114)

NOTE: Some DC latching 9V coils come from the manufacturer already latched. Please follow the start-up procedure for DC latching solenoids on page 17.

Wiring Solenoid

13mm
1/2"

24 Vac   9V Solenoid Pulse

SS 1 2 3 4 C

3. **Wiring a rain sensor:** Cut the yellow wire loop and install the rain sensor. Use normally closed rain/freeze sensors.

SS 1 2 3 4 C

PROGRAMMING THE CONTROLLER:
The controller home screen has the option to manually run the system, fully program the controller (with up to 8 start times and 6 independent programs) and to turn the device off permanently or in daily intervals for up to 15 days.
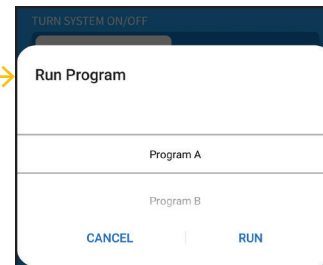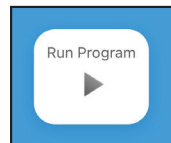
MANUAL OPERATION:
Allows you to manually run a station for up to 12 hours or manually run a complete program. The status of the rain sensor does not affect manual control.
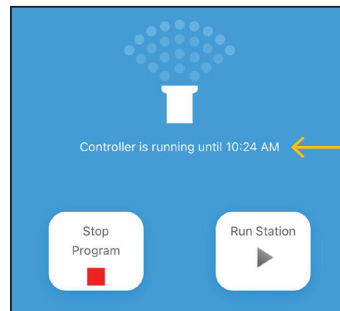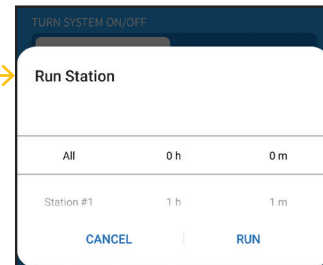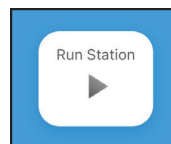

TO RUN A PROGRAM:
Choose the Program, then push RUN.

TO RUN A STATION:
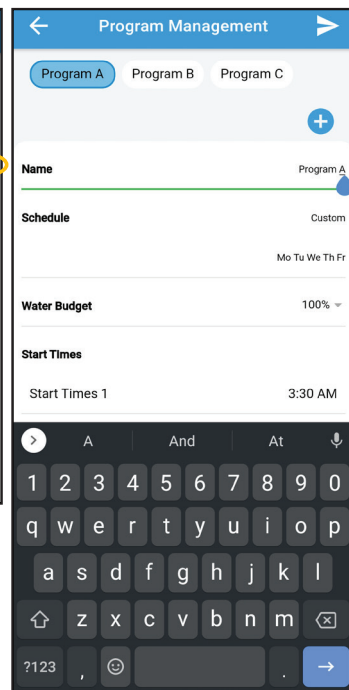Choose the Station, set the amount of time you wish it to run, then push RUN.
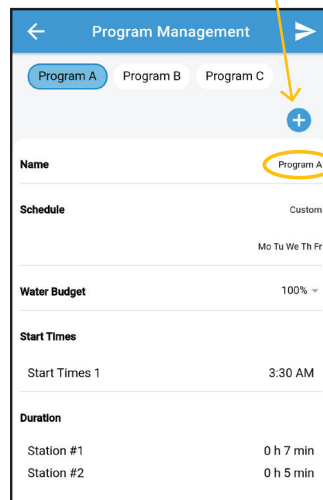

The display will show you when the expected completion of your manual operation will be. To stop it early, simply push the Stop Program button.

PROGRAMMING:
Start by pushing the EDIT PROGRAMS button.

The programming operation on the device home screen allows you to program Watering Days, Water Budget (% of run time setting) up to 8 start times and station duration. You can also rename programs with more intuitive descriptions (Weekday Schedule, Weekend Schedule). You can add up to 8 independent programs using the + sign in the upper right corner of this screen.
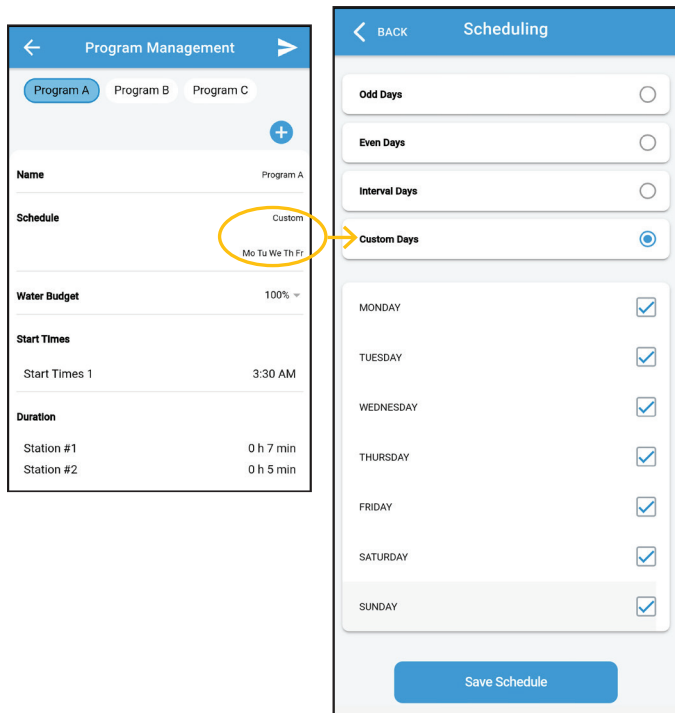

CHANGE PROGRAM NAME:
Tap on the current Program name.
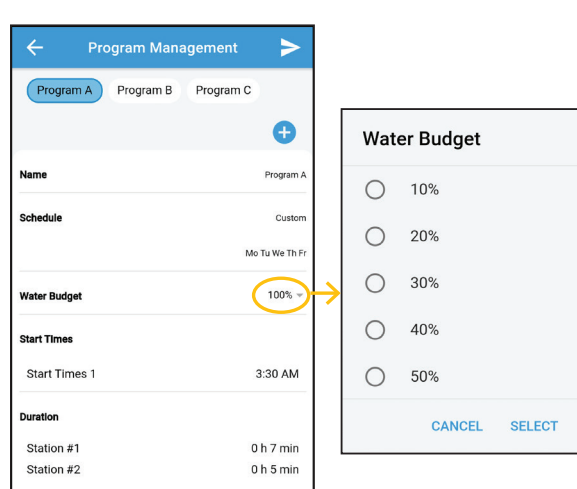Use the keyboard to modify the name.

CHANGE SCHEDULED DAYS OF THE WEEK:

Tap on the area showing the current days of the week. This brings up the Scheduling Page. Use the buttons on the right to choose either Odd, Even, Interval, or Custom days of the week. If Custom is selected, then choose what days you wish the program to run by putting a check in the box next to that day. Once complete, push Save Schedule to return to Program Management.

SETTING WATER BUDGET:

Use the Water Budget function to adjust run times for seasonal conditions without having to change your programmed run times. Push on the current water budget. This will open the selection screen. Use the scrollable list to find and select your desired water budget. Example: If you want your run times to be half of what you have them programmed, highlight 50%. Once complete, push Select to return to Program Management.

SETTING PROGRAM START TIMES:

To set a Program Start Time, push on the time display area and the Start Times window will come up. To set the time, tap on the start time you wish to modify. This will prompt the time dial to popup. Scroll to the desired start time, then push DONE.

SETTING ADDITIONAL START TIMES:

You can then repeat this to set Start Time 2. If more start times are required, push the + icon at the top right to add additional start time slots.

DELETE PROGRAM START TIMES:

To delete a start time, swipe that time slot to the left then push delete.

SETTING STATION RUN TIMES:

To set a Station Run Time, tap on the time display area and the Stations Duration window will come up. To set the run time, tap on the time showing on the right side of the desired Station you wish to modify. The time dial will come up. Scroll the time to the desired run time then tap DONE.
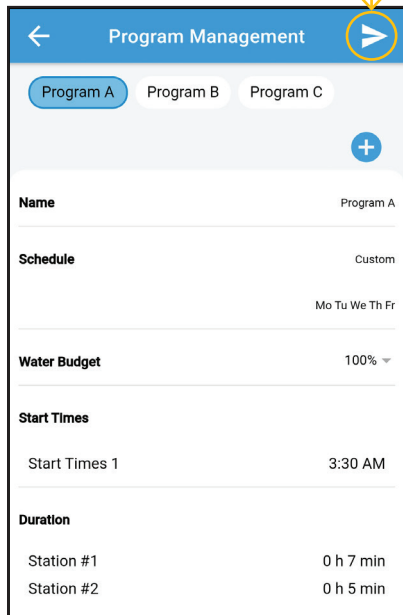
SAVING YOUR PROGRAM:
When you are done making changes to your controllers' program, push the arrow in the upper right hand corner to push the changes to the controller.

The other way to save your changes is to simply hit the back arrow in the upper left hand corner.

If you have any changes that have not been sent to the controller, it will give you the option to:
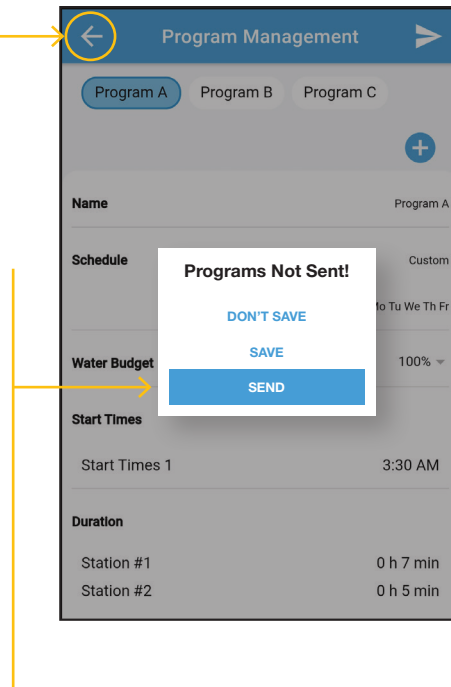
DON'T SAVE
This allows you to back out without saving any changes you made.

SAVE
Saves your changes but keeps you in the Program Management Screen.
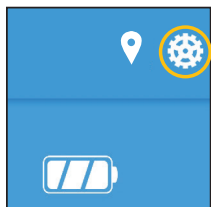
SEND
Saves your changes, sends them to the controller, and exits you from the Program Management Screen.

THE EDIT SCREEN:

From the controller's home screen, tap on the gear icon in the upper right corner. From here you can rename your controller as well as name individual stations. Simply tap on the name you wish to change, and your keypad will automatically come up. Once complete, hit SAVE CHANGES. You can set the controller to have a PIN code for security. You can also de-register a controller or remove a controller from this account.
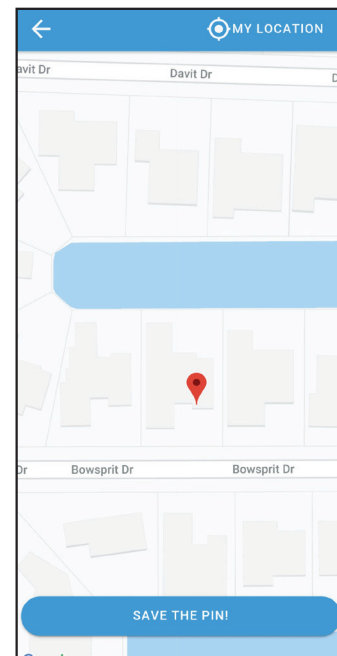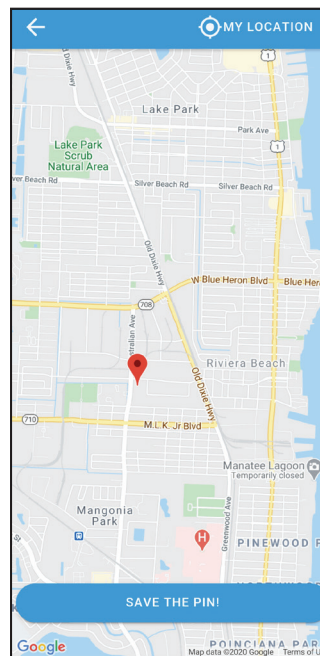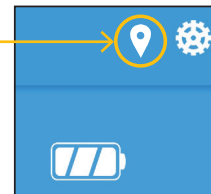
Controller's home screen

GEOLOCATION:

To geolocate a controller, simply tap on the map icon in the top right corner of the controller's home page.

MY LOCATION will start the Pin in your current location. If you need to move the PIN location, simply drag it on the map to where you need it to be, then push SAVE THE PIN.

Controller's home screen
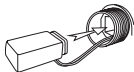
DC LATCHING SOLENOID START-UP PROCEDURE:

Because some DC Latching solenoids will default to the latched (open) position before installation, the valve will appear to be stuck open. It is necessary to energize all zones to unlatch the coil and close the valve prior to installation. From the Manual Operation Screen, select each active station and run for 2 seconds each. This will unlatch the coil and close the valve on each station should the plunger be latched magnetically prior to installation.

Resetting the security key: If you need to reset the security key (the passcode set on the device), disconnect the battery (or batteries). Use one of the batteries to make a reverse connection on the battery terminal (positive to negative). Hold this connection for 5 seconds.

Make contact on the battery terminals for 5 seconds with battery reversed.

9V

Reconnect and insert the battery.

Launch the App and Add the device to your account by following steps 1-5.
Go to the Edit screen and type in a new security key.

PARTS DIAGRAM
BLUE

Mounting Holes

Battery Enclosure

Rain Sensor (yellow)

Common (black)

Stations (red)

S S 1 2 3 4 C

ACCESSING THE APP FROM A DESKTOP OR LAPTOP:

While the BLUE app is designed for use in the field on a smartphone or tablet, it is accessible on a desktop or laptop computer at: **www.krainconnect.com**.

WARRANTY

The manufacturer guarantees to the original purchaser that any product supplied by the manufacturer will be free from defects in material and workmanship for a period of two years from the date of purchase. Any product found to have defects in material or workmanship within the warranty period shall be repaired or replaced by the manufacturer.

The manufacturer does not guarantee the use for a particular purpose of its products and does not make any guarantee, expressed or implied, other than the warranty contained herein. The manufacturer shall not be liable for any loss from use of the product or incidental or consequential damages to other parts of any installation of which this product is part.

The warranty shall not apply to any equipment which is found to have been improperly installed, set up or used in any way not in accordance with the instructions supplied with this equipment, or to have been modified, repaired or altered in any way without the expressed consent of the manufacturer. This warranty shall not apply to any batteries or accessories used in the equipment covered under this warranty or to any damage which may be caused by such batteries.