



BL-KR

Battery Powered Irrigation Controller

BL-KR V1.0



BL-KR V2.0



QUICK INSTALLATION GUIDE

K-Rain Manufacturing Corp.
www.krain.com

INTRODUCTION

The **BL-KR** is a Bluetooth® and fully waterproof battery operated irrigation controller. The BL-KR is ideal for isolated or remote valve boxes where running power is expensive/difficult, eliminating long wire runs to controller or expensive increase in wire gauge size due to voltage drop issues.

STEP 1: APP DOWNLOAD

1. On your smartphone or tablet, go to the itunes App Store  or to the Goggle Play Store app. 
2. Search for the K-Rain BL app  in the search bar.
3. Download and install the K-Rain BL app.
4. Once installed, make sure Bluetooth®  is enabled on your smartphone or tablet.

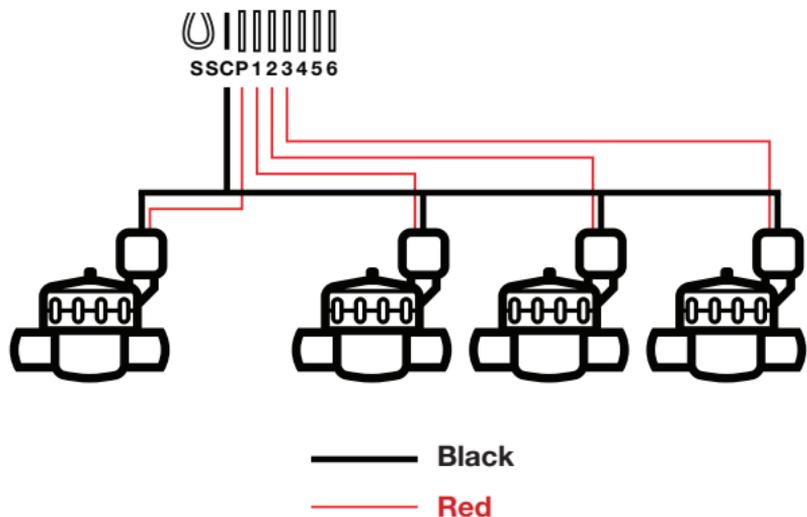
STEP 2: PAIRING

1. Unscrew the cap on the **BL-KR**.
2. Plug the **9V Alkaline battery** and screw the cap back on the battery compartment.
3. Launch the K-Rain BL app.
4. Tap on the «**Add a module**» button, or on the «+» button.
5. Choose your **BL-KR** from the list of nearby controllers.
6. To finish the pairing of your **BL-KR**, follow the in-app instructions.



STEP 3: WIRING

1. Connect the **BL-KR** to the solenoids as described below.
Use **9V DC latching solenoid** coils only.



2. **(Option)** If you want to install a rain sensor, cut and strip the **yellow wire** of the **BL-KR** and connect it to the sensor.

STEP 4: PROGRAMMING

If you need more information about the BL-KR and K-Rain BL app, please visit our website and review supplementary documentation at: www.krain.com/bl-kr-battery-powered-bluetooth-irrigation-controller.

FREQUENTLY ASKED QUESTIONS

What are the features required for the Bluetooth® product to work? A smartphone or tablet running Android 4.3 or greater with Bluetooth Smart 4.0 or greater. An Apple iPhone or iPad running iOS 9.0 or greater with Bluetooth Smart 4.0 or greater.

Why does my station not start? On each station, you must enter a duration and assigned it to a program (**A or B or C**). If several stations are assigned to the same program, they will start one after the other.

Why does my Program B not start? If the start time of **Program A** is the same time entered in **Program B**, the two programs will be executed one after the other in the order **A** and then **B**.

What is the output P? You can connect a master valve or a pump on the **P** output. The output will automatically start 2 seconds before each station and during the watering of each station.

What are the S outputs (Yellow Wires) of the programmer? You can connect a Rain Sensor on the **S** outputs by cutting and stripping the yellow wire.

How does the rain sensor work? When the sensor is connected to the yellow wire (see wiring step for each model), it affects all 3 programs. If it rains and the rainsensor is active, programs **A or B or C** will not start. It is necessary to wait until the sensor has reset before irrigation will restart. Manual control «**All stations**» is not affected by the rain sensor. You can manually operate the system even if the rain sensor is activated.

FREQUENTLY ASKED QUESTIONS - CONTINUED

What is the Water Budget? The Water Budget adds or subtracts a % of time to the duration of each station. It is typically used when changing seasons (for example summer to fall or spring to summer).

Example: If you entered **Station 1** = 1h on **Program A** and **Station 2** = 0h30 on **Program A**, then enter a Water Budget 120 % for **Program A**. When the **Program A** starts, the stations **1 and 2** will be increased by 20%, (example: 1h12 for **Station 1** and 0h36 for **Station 2**).

How can I restart the initialization procedure (for example: change the router access point)? To reset a device or restart an initialization procedure, short circuit the 2 pads of the battery pressure (remove the 9V battery and reverse the terminals OR place a metal object such as a screwdriver over both terminals) for 30 seconds minimum.

If my device does not have a battery, do I lose programs?

The BL-KR has non-volatile memory that stores programs even if the controller loses power.

I would like to reset all programming information on my device.

How do I do this? If you want to reset the controller, launch the K-Rain BL App, select the controller you want to reset, and then open the **P Parameters** and select «**Clear programs and durations**».



K-Rain Manufacturing Corp.

1640 Australian Avenue | Riviera Beach, FL 33404 USA

561.844.1002 | FAX: 561.842.9493 | 1.800.735.7246

www.krain.com