

THE CONNECTED IRRIGATION EXPERT



# LR-IP

THE OPEN SPACES IRRIGATION

L Ra



QUICK  
INSTALLATION  
GUIDE

# INTRODUCTION

The **LR-IP** is a Bluetooth® and LoRa™ waterproof irrigation controller, battery operated and remotely controllable. It can easily create long range installations, from 1 to 150 stations.

It require the association with a LR-MB (relay Wi-Fi/LoRa).

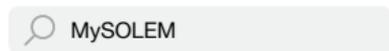
Step 1

## APP DOWNLOAD

1. On your smartphone or tablet, go to the «**App Store**» or to the «**Play Store**» app.



2. Search for «**MySOLEM**» in the search bar.



3. Once found, download **MySOLEM** app.



4. Once installed, activate the Bluetooth® of your smartphone and/or tablet.

## Step 2

# PAIRING

1. Unscrew the **LR-IP**'s cap.
2. Plug the **9V 6LR61 or 6AM6 battery** and screw the cap.
3. Launch **MySOLEM** app from your smartphone and/or tablet.
4. Tap on the «**Add a controller**» button or on the «**+**» button.
5. Choose the **LR-IP** from the available controllers list.
6. **(Optional)** Define a name and a security key for you controller and tap on the button «**Validate**».
7. To finish your **LR-IP** pairing, follow the next steps described in the app.

**Note** : To identify your **LR-IP** among the nearby controllers, please refer to the «**Default name**» present on his product label.

# LR-MB PAIRING

To optimize the radio connection between the two controllers, we advise to install the LR-IP in a plastic valve box under 800 meters to the LR-MB. We also advise to associate all your LR-IPs near the LR-MB before installing them separately in the valve boxes.

1. Select the **LR-IP** programmer previously installed.
2. Tap on the top right icon  to access to the product's information.
3. Tap on «**Remote Access**».
4. Select the **LR-MB** you want to use.
5. Tap on the button «**Send**» or  on the bottom of your screen to validate.

Once the pairing finished, you can test the connection between your **LR-MB** and your **LR-IP**:

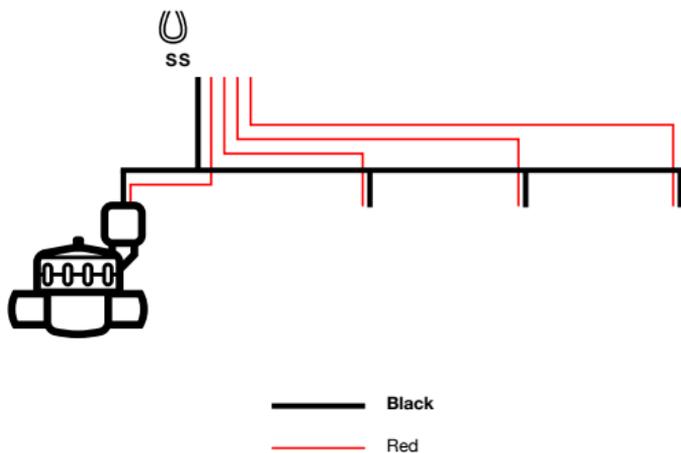
1. Go back to the «**Remote Access**» screen.
2. Tap on the button  to start the test.

**Note :**

- The message «**Connection established**» indicates that the connection is reliable.
- The message «**No connection established**» indicates it is necessary to bring the **LR-IP** closer to the **LR-MB** or vice versa.

Step 4

# WIRING



# SETTING

For further information about the **LR-IP** and **MySOLEM** app, please visit our website [www.solem.fr](http://www.solem.fr) and check our supplementary documentation.

## USEFUL INFORMATION

### LoRa™ Signals

These icons indicate the last connection between **LR-MB** and **LR-IP**:



Last connection has been less than **5 minutes** ago



Last connection has been between **5 and 10 minutes** ago



Last connection has been more than **10 minutes** ago



Connection **never** made

**Note** : Tap on the icon for more information.

### Security key

The security key allows to protect your controller. It is required only for future installations. To define during step 6 of “**PAIRING**” or accessing to product’s information by tapping on the icon  on top right of your screen.

# FAQ

## **What are the features required for the Bluetooth® product to work?**

Android 4.3 (or more) Smartphones or tablets equipped with Bluetooth Smart 4.0 (or more). iOS 9.0 Apple iPhone or iPad running (or more) with Bluetooth Smart 4.0 (or more)

**Why does my station not start?** It has to be assigned a time and a **Program A, B** or **C** to each station. If several stations are assigned to the same program, they will start one after the other.

**Why does Program B not start?** If **Program A** departure time is the same than **Program B**'s one, then the programs will be executed one after the other.

**What is output P for?** You can connect a master valve or a pump through a relay, on **P** output. It will start automatically 2 sec before each station and during each station watering.

**What are the controller's output S (yellow wire) for?** You can plug a rain sensor into **S** outputs, to do that you need to cut the yellow wire.

**How does the rain sensor work?** When connected to the yellow wire the rain sensor acts on the 3 programs. If it is raining, programs **A, B** and **C** won't start; you must wait the probe to dry before the programs star again. The manual control "**All stations**" is not affected by the rain sensor conditions.

**What is the Water Budget?** The Water Budget allows to add a time percentage, according to the time recorded by each station. It is generally used during seasonal changes (for example: summer to autumn, or spring to summer).

**E.g.:** If you entered **Station 1** = 1h on Program A and **Station 2** = 0h30 on **Program A**. Then, if you enter a Water Budget for **Program A** at

120%, when starting **Program A**, stations **1** and **2** will be increased by 20%, which means 1h12 for **Station 1** and 0h36 for **Station 2**.

**How can I restart the pairing or the pairing procedure?** To start the pairing procedure again, just bypass the 2 pins of the battery pressure (battery prior removed) for 30s minimum.

**If my device has no more battery, do I lose my programs?** No, they are not lost, they are automatically saved.

**I would like to reset the settings of my device. How do I do it?**

Open the app, go to the product, then open the  **Settings** and select «**Erase programs and durations**».

# TECHNICAL FEATURES

## DIMENSIONS

Width: 14 cm

Height: 5,5 cm

Depth: 9 cm

## INSTALLATION

Rain sensor connection / Master Valve connection

Compatible with 9V latching solenoid

Maximum range LR-IP and solenoid: 30 m

Usage environment: from -20°C to 60°C

## FEATURES

100% waterproof (rated IP68)

6AM6 or 6LR61 9V Alkaline battery

Bluetooth® Smart 4.0 Low Energy

LoRa™ radio communication

Permanent programming save

Internal clock saved in case of power failure < 30 s