SOLEM

L'EXPERT DE L'IRRIGATION CONNECTÉE
THE CONNECTED IRRIGATION EXPERT

LoRa™ Bluetooth®

LR-FL

INSTALLATION GUIDE

PRESENTATION

The LR-FL is a flow meter module Bluetooth® / LoRa™ waterlight, battery operated and remotely controllable associated with a « LR-MB ». It connects to a garden counter equipped with a flow sensor and allows to collect the data of volumes consumed.
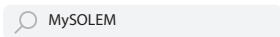
Step 1
DOWNLOADING

1. On your smartphone and/or tablet, meeting on the «App Store» or « Google Play » application.

2. Search « MySOLEM » in the search bar.

MySOLEM

3. Download MySOLEM application.

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

ASSOCIATION Bluetooth®

1. Unscrew LR-FL cap.

2. Check that the input leads of the flow sensor are connected to each other before connecting a 9V battery type 6LR61 or 6AM6 and screw the cap.
Note : The connected input lead avoids inadvertent counting at power on.

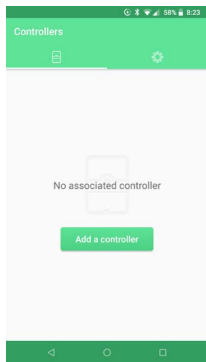3. Launch MySOLEM application
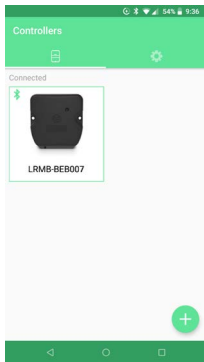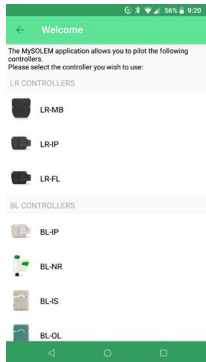from your smartphone and/or tablet.

4. Press on

Add a controller   or   +

5. Select LR-FL.

No module
installed

Modules are already
installed

3

6. Choose the LR-FL among the available programmers list under « Select the LR-FL programmer »

The number displayed corresponds to « Default name » present on his product label.

Note :
During 2 minutes after the set up of the battery, the product is in installation mode and appears in green in the list. In this mode, the product doesn't ask the security key if this one has been seized during a previous installation.
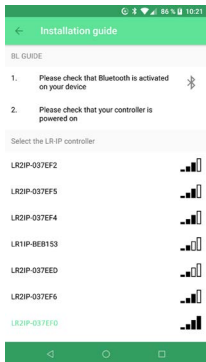
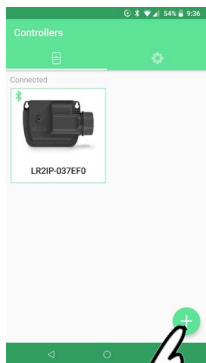7. Your module is associate in the application and appears in the available programmers list.
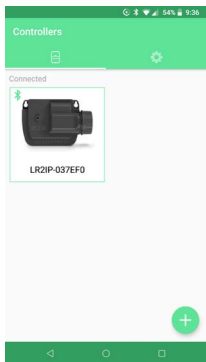
ASSOCIATION LR-MB

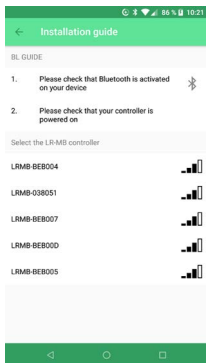1/ Position the « LR-FL » close to « LR-MB » (<10m)

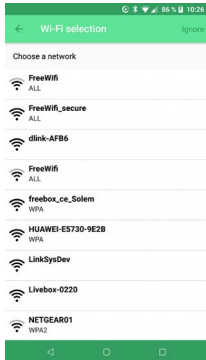2/ Go to the home screen, press on

3/ Select « LR-MB »

4/ Select the « LR-MB » that you wish install among the available modules list under « Select the programmer LR-MB »

5/ Choose the Wi-Fi which you want link your « LR-MB » by clicking on the corresponding line or « Ignore » if your « LR-MB » has already been assigned to a Wi-Fi network.

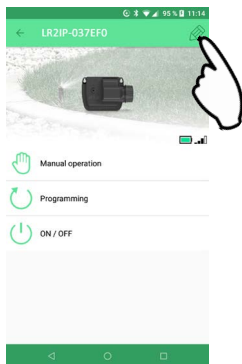6/ Enter the password of the Wi-Fi network access point then validate by the button.

To control that your « LR-MB » is correctly connected to the network, check that the front face of the LED is fixed green.

Once the selection made,
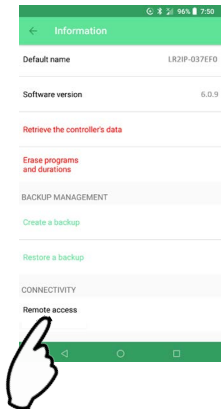the « LR-MB » appears.
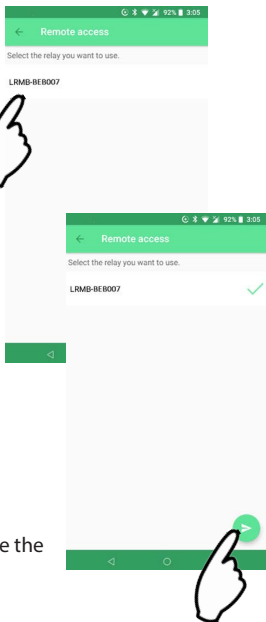

8/ Select the « LR-FL » module

Press on top right to access the
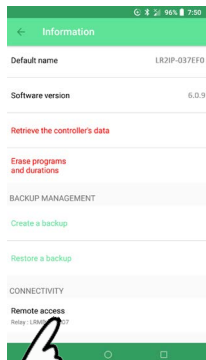product information page.

9/ Press on « Remote Access »
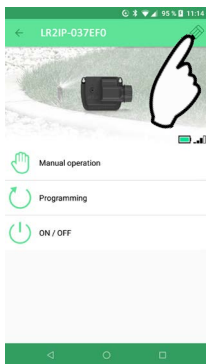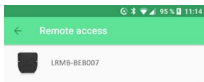

10/ Select your « LR-MB »

11/ Press to validate the operation

LoRa™ CONNECTION TEST

Once your network consisting : «LR-MB» installed and connected to Wi-Fi network, related modules to « LR-MB », you can test the connection LoRa™ between the « LR-MB » and modules to validate their positioning.
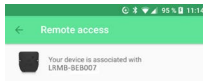
1/ Test the LoRa™ connection with a support on

Tap to start the connection test

2/ The message **Connection established** indicates that the LoRa™ connection between the « LR-MB » and the module is reliable.

Your device is associated with
LRMB-BEB007

Tap to start the connection test

Connection established
The communication with your relay is working properly.

In the case where the connection would not be reliable, closer the « LR-MB » module, or vice versa, and repeat the procedure.

LoRa™ CONNECTION STATUS

These icons give the status of the last LoRa™ connection between the « LR-MB » and its LR module.

Connection < 5mn

5mn < Connection < 10mn

Connection > 10mn
Non-transmitted changes

Connection never etablished
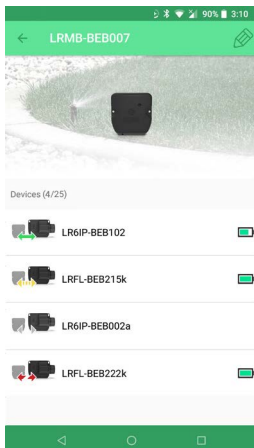
By pressing on one of the icons, you obtain a message giving the state of the LoRa™ connection.
Example :

LR6IP-BEB102

The last communication between your controller and its LR-MB happened on Jan 10, 2018 3:12 PM.

OK
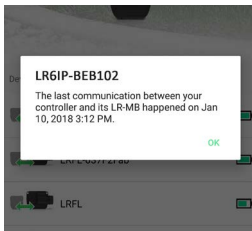
SECURITY KEY

The access to the lock key can be done at the time of module installation or by the parameters of the module.
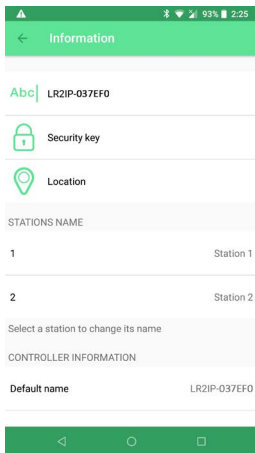
INSTALLATION

1. Connect your « LR-FL » to a water meter equipped with a flow sensor as illustrated below. Use pulsed flow sensors (dry contact inputs) or equivalent.

Flowmetter

CONFIGURATION

1. Set the value of the conversion factor of your flow meter « COEFFICIENT » expressed in Pulse/Liter.

2. Set your « High threshold »
(Maximum consumption warning threshold in liters over a period of 24 hours)
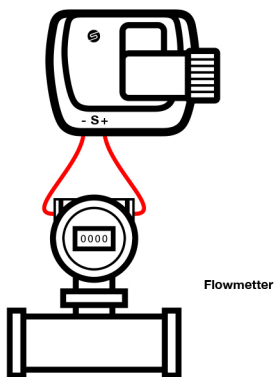The High Threshold alert is immediate when crossing

3. Set you « Low threshold »
(Minimum consumption warning threshold in liters over a period of 24 hours)
The Low Threshold alert occurs the next day at 7:00 AM if it has occurred before midnight the day before.
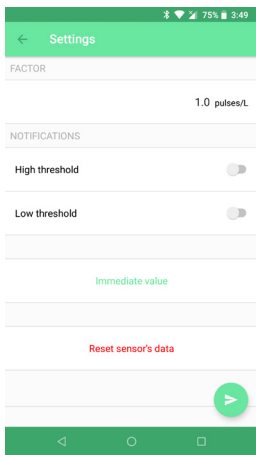
Crossing the thresholds generates :

- Alert notification messages on your smartphone / tablet.

- An email to the address of your user account on the MySOLEM platform.

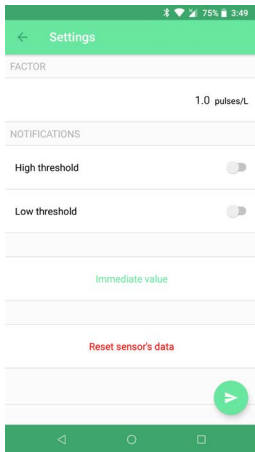# WATER COUNTING TEST

Instant value function, allows you to check at installation that the application measures at the same time, the same water consumption read on the counter.

If a gap is noted, check the wiring (polarity), or adjust the COEFFICIENT.

Function « Clear sensor data » remove all measurements on the « LR-FL » and the platform.

CHARACTERISTICS
Techniques

Use :
Permissible humidity : 100% (IP68)
Ambient temperature of product use : -20°C to 60°C
Guarantee : 2 years

Dimensions :
Width 14 cm x Height 5.5 cm x Depth 9 cm

Alimentation :
9V 6AM6 or 6LR61 alkaline battery

Frequency band used and power emmited max :

Bluetooth® : [2400-2483.5]Mhz, 1mW
LoRa™ : [868-868.6]Mhz, 25mW

This symbol indicates that the product uses a LoRa technology radio.

The symbol « CE » indicates that this device complies with the European standards on safety, health, the environment and the protection of the user. Devices with the symbol « CE » are intended for sale in Europe.

This symbol indicates that these types of electrical and electronic devices must be discarded separately in European countries. Do not dispose of this device with your household waste. Please use the collection and recycling points available in your country when you no longer need this device.