



SOLEM

THE CONNECTED IRRIGATION EXPERT

L'EXPERT DE L'IRRIGATION CONNECTÉE



LR-FL

INSTALLATION GUIDE

PRÉSENTATION

The LR-FL is a waterproof Bluetooth® / LoRa™ flow meter, battery operated and remotely controllable associated with a « LR-MB ». Connected to a garden meter equipped with a flow senso, it allows to collect the data of volumes consumed.

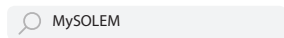
Étape 1

DOWNLOADING

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



2. Search « MySOLEM » in the search bar.



3. Download MySOLEM application.



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

Étape 2

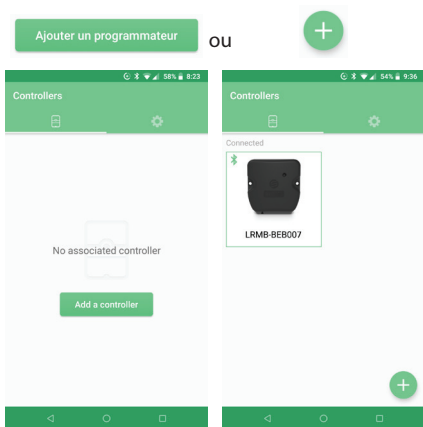
PAIRING Bluetooth®

1. Unscrew your LR-FL's 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.



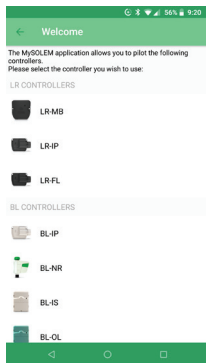
4. Press on



No modules installed

Modules are already installed

5. Select LR-FL.



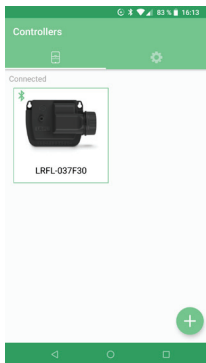
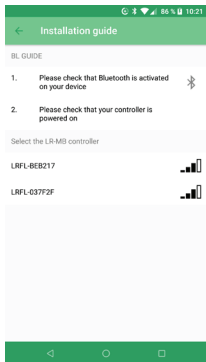
6. Choose the LR-FL among the available programmers list under « Select the LR-FL programmer »

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.



Étape 3

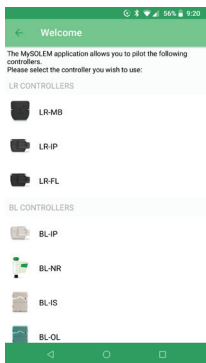
ASSOCIATION LR-MB

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

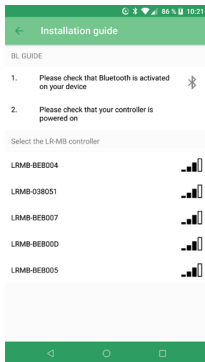
2/ Go to the home screen, press on



3/ Sélectionner « LR-MB »



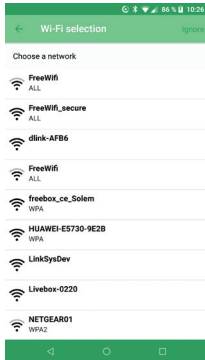
4. Select « LR-MB » that you wish install among the available modules list under « Select the programmer LR-MB »



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

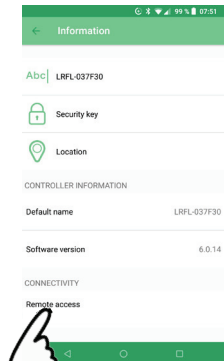


8/Sélect the « LR-FL » module.

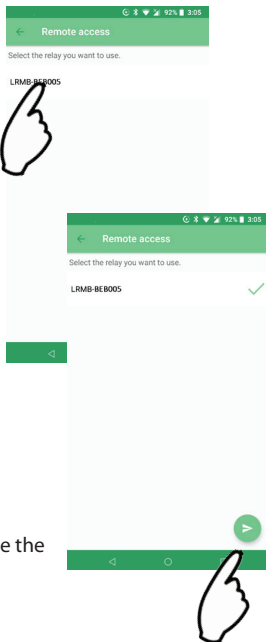
Press on  top right to access the
product information page.



9/ Press on « Remote Access »



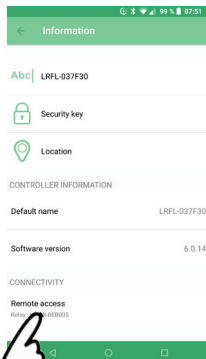
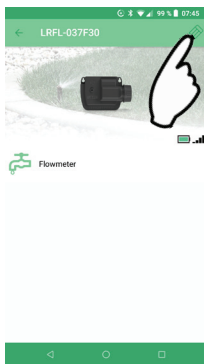
10/ Sélection your « LR-MB »



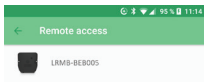
11/ Press to validate the operation

TEST CONNEXION LoRa™

Once your network consisting of «LR-MB» is 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.



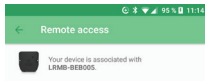
Tap to start the connection test



2/ The message



indicates that the LoRa™ connection between the « LR-MB » and the module is reliable.



Tap to start the connection test







The communication with your relay is working properly.

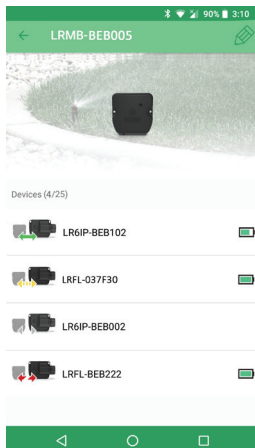


In the case where the connection would not be reliable, closer the « LR-MB » module, or vice versa, and repeat the procedure.

LoRa™ CONNECTION STATUS

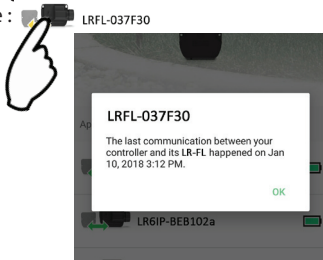
These icons give the status of the last LoRa™ connection between the « LR-MB » and its LR module.

-  Connection < 5mn
-  5mn < Connection < 10mn
-  Connection > 10mn
Non-transmitted changes
-  Connection never established



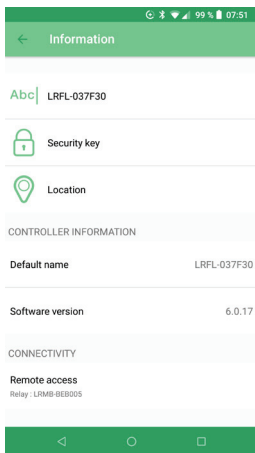
By pressing on one of the icons, you obtain a message giving the state of the LoRa™ connection.

Example :  LRFL-037F30



SECURITY KEY

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

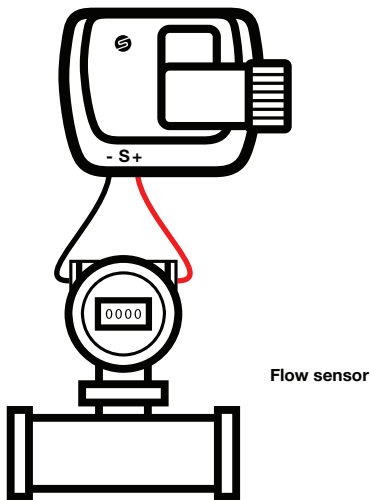


Étape 4

INSTALLATION

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

For polarized flow sensors, when wiring, observe the polarization :
Red wire -> + , Black wire -> -

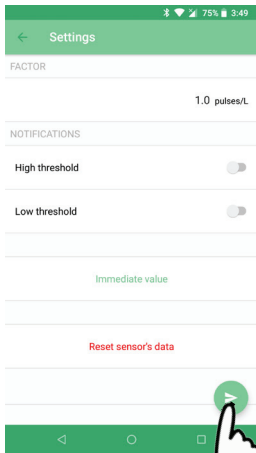


CONFIGURATION

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

2. Set your « High threshold » (Maximum consumption warning threshold in liter over a period of 24 hours). The high threshold alert is immediate as soon as it is crossed..

3. Set you « Low threshold » (Minimum consumption warning threshold in liter over a period of 24 hours) The low threshold alert occurs the next day at 7AM if it is declared before midnight the day before.



Press to validate

Crossing the high or low threshold generates :

- Alert notification messages on your smartphone / tablet.
- An email to the address of your user account on the MySOLEM platform.

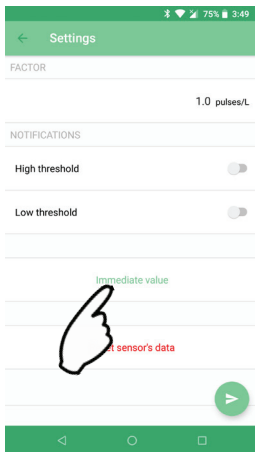
WATER COUNTING TEST

« Immediate 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.



TECHNICALS

Characteristics

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 emitted 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.