SOLEM

INSTALLATION AND USER MANUAL

LR-NR

Bluetooth® LoRa

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IMPORTANT INSTRUCTIONS AND REMINDERS

1. Before installing and commissioning the product, please carefully read all the instructions in this manual. Failure to follow these instructions may compromise the protection provided by the device.
2. Replacing the battery with a model other than a 9V alkaline battery (6AM6 or 6LR61) may damage the product.
3. In case of malfunction, the manufacturer's liability shall be limited to the repair or replacement of the product under its legal warranty. Maintenance operations remain the sole responsibility of the user. Any damage to the product resulting from improper handling shall not be attributed to a hardware defect.

PRESENTATION

The LR-NR is a Bluetooth®/LoRa™ battery-operated (9V) tap timer. It can be connected to an above-ground irrigation, drip, or misting system. This module can be added and controlled via the MySOLEM mobile app and is also programmable through the mysolem.com web platform.

Switch your programming from watering mode to misting mode (cyclical watering) and set them up by defining the durations, start times, watering cycles, etc.

The LR-NR integrates Bluetooth® technology, allowing for connection and control via the **MySOLEM** app within a few meters of the module. It is also equipped with LoRa™ technology, enabling remote programming through the addition of a Wi-Fi or 4G gateway (LR-MB or LR-BST).

1 Commissioning

CREATING AN ACCOUNT

To benefit from all the LR-NR features, you must create a MySOLEM account.

1. Download the **MySOLEM** application on your mobile phone and/or tablet from the **App Store** or **Google Play** .
2. To log in or create an account, open the **MySOLEM** application.
3. Go to the **My account** tab and follow the steps described on the application.

INSTALLING THE BATTERY

Remove the green cover and the sealing plug.

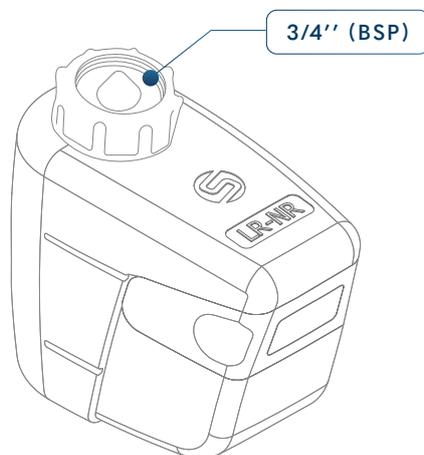Insert the battery into the compartment, ensuring the correct polarity.

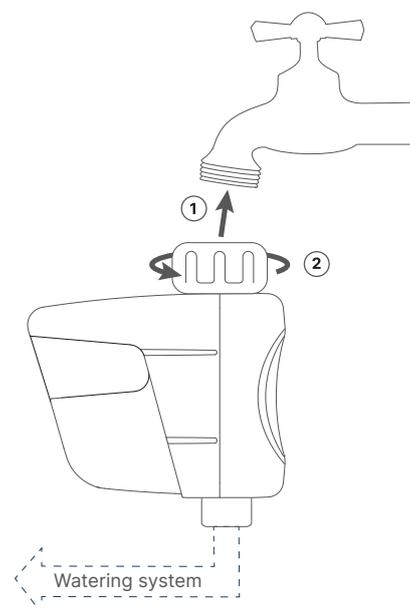Put the sealing plug and the green cover back in place.

- To install the product, ensure it is placed on an above-ground lawn faucet.
- It is recommended to install the LR-NR vertically.
- Make sure to replace the black sealing cap behind the battery, as it ensures both its protection and the watertightness of the module.
- Do not submerge your LR-NR.

In Europe, the thread connection is 3/4" (BSP thread).

3/4'' (BSP)

INSTALLING THE LR-NR

1. Insert the green ring of the LR-NR onto the tap spout.
2. Turn the ring to lock the timer onto the faucet.
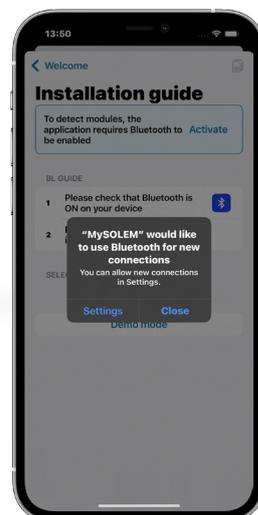3. You can then connect a garden hose or your irrigation system as needed.

Watering system

② Setup

PAIRING AN LR-NR

1. Turn on Bluetooth® on your mobile phone and/or tablet.
   If Bluetooth® is off, the MySOLEM app redirect you to your device settings to activate it.
2. For Bluetooth® to function properly, in the settings, you must also allow the app to access Bluetooth® (iOS), or allow nearby device scanning (Android).
3. To add a product, on the main screen, click **Add a module** or the **+** icon.
4. From the list of available modules, select **LR-NR**.

Note:

- To identify your LR-NR among nearby available modules, check the **Default Name** on the label located under the product.

5. (Optional) You can change the name of your module or enable the anti-theft function, which adds a security key to your timer. This feature protects your module against any

unauthorized access.

6. Click **Pairing**.

The LR-NR is now paired with your account.

SECURITY KEY / ANTI-THEFT FEATURE

The security key protects your programmer with a password. Any new device or account attempting to connect to your module will need to enter it.
You can set this feature during the installation of a module or by accessing product information via the icon ⚙ at the top-right corner of your screen.

Note:
● To access the security key through the settings, you must be near the module and turn on the Bluetooth® on your mobile phone and/or tablet.

PAIRING A GATEWAY

The LR-NR can only be programmed remotely if you have installed a LoRa™ radio communication gateway: LR-MB or LR-BST.
It is recommended to pair your LR-NR close to the LR-MB or LR-BST before physically installing them at their chosen locations.

1. In the application, select the previously installed LR-NR timer.
2. To access the product information, click the ⚙ icon at the top-right corner of the screen.
3. Scroll to the **Connectivity** section and click **Remote Access**.
4. Select the LR-MB or LR-BST gateway you want to pair (refer to the **Default Name** on the product label).
5. Click **Send** or the ➤ icon at the bottom of your screen to validate.
6. Once paired, test the connection between your LR-MB or LR-BST and your LR-NR : return to the **Remote Access** screen of your LR-NR and click the 📶 button, to start the test.

Note:
● The message **Connection established** indicates a reliable link between devices.
● The message **No connection established** indicates that you must bring your LR-NR closer to the LR-MB/LR-BST or vice versa.

③ Programmation

MANUAL COMMAND

With this feature you can start a one-time watering session, operating independently of your scheduled programs. When the manual command is activated, it temporarily overrides your configured irrigation schedules.
The command transmission time to the module varies depending on the active communication mode and the current system settings: LoRa™, Bluetooth®, Eco Mode...

● **Opening duration**: operating period of your command.
Example: When activating **Continuous Watering** with an 08:00 **Opening duration**, the LR-NR will water continuously for 8 hours.
● **Continuous watering**: Watering mode or misting mode is active.
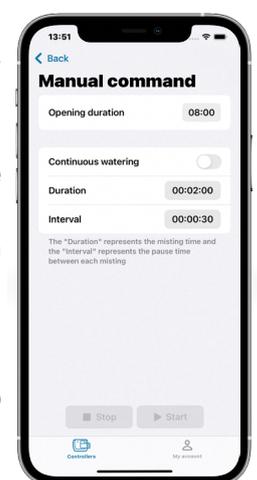If you enable the **Continuous Watering** button, watering runs without interruption for the set **Opening Duration**.
If you disable the **Continuous Watering** button, the system switches to **Misting mode** with these parameters:

● **Duration**: active misting period.
● **Interval**: pause between misting cycles.

Example (as shown in the attached screenshot): you disable **Continuous Watering**, so Misting mode is active, with an opening duration of 08:00. The LR-NR operates for 8 hours, alternating between misting (**Duration** field) and pause periods (**Interval** field).
In this case, the LR-NR mists for 2 minutes, then pauses for 30 seconds, and this cycle continues for 8 hours.

Manual Command, misting mode activated.

Misting mode offers greater precision, allowing you to define watering periods down to the second and alternate watering/pause cycles. Continuous Watering mode lets you set a watering period in minutes, without any intervals.

To start your command, click **Start**. You can stop the command at any time by clicking **Stop**.

PROGRAMMING

This scheduling option allows you to program up to 8 watering start times by setting different frequencies, time slots, and modes: continuous watering or misting.

- **Frequency**: watering repetition options.Example: Every day, every even day, custom days, custom periods...
- **Start/End**: time window during which watering is active. Can be set from 1 minute to 24 hours.
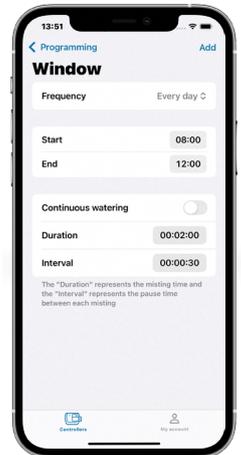- **Continuous watering**: either Watering mode or Misting mode is active.

If you enable the **Continuous Watering** button, watering runs continuously throughout the **Start/End** time window.

If you disable the **Continuous Watering** button, Misting mode is active during the **Start/End** period, with the following settings:

- **Duration**: period during which misting is active. Can be set from 5 seconds to 24 hours, but must remain within the **Start/End** time window.
- **Interval**: pause period between each misting duration. Can be set from 30 seconds to 24 hours, but must also remain within the **Start/End** time window.

Programming window, misting mode activated.

When you add or make changes to a program, it is necessary to send this data to the module:
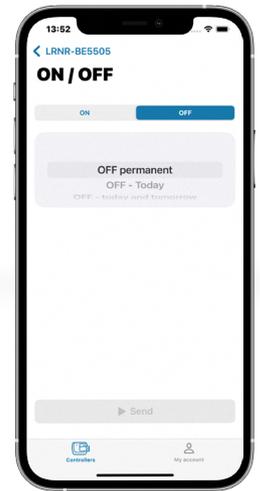
1. Edit or add your programs.
2. Go back to the main menu of your LR-NR module.
3. Click **Send** or click the ➤ button.

ON / OFF

1. For the LR-NR programs to be active, this feature must be set to **ON**.
   If you want to stop all programs/manual command on your LR-NR, you can set it to **OFF** either for a specific period or permanently.
2. To apply this setting, you must click **Send** while being near the module with Bluetooth® enabled.

When set to OFF, the device does not run any programs until the ON mode is reactivated. However, it still communicates to detect any potential command.

ECO MODE

Eco Mode allows you to extend battery life by up to 50%. When Eco Mode is enabled, it reduces communication between the app and the module, helping to save battery power and extend its lifespan by several more years.

TECHNICAL SPECIFICATIONS

INSTALLATION
Outdoor use only
Operating temperature: 0°C to 50°C
Protect from frost during winter

OPERATION
Bluetooth® Smart 4.0 Low Energy [2400-2483.5] MHz
LoRa™ radio communication
Internal clock backup during power outages < 30 seconds

DIMENSIONS
Width: 11.5 cm
Height: 14.5 cm
Depth: 6 cm

POWER SUPPLY
9V alkaline battery, type 6AM6 or 6LR61 (not included)

THREADING
Compatible with 3/4" BSP threaded connection

RECOMMENDED PRESSURE
0.5 to 6 bar

TECHNICAL SYMBOLS GUIDE

LoRa This symbol indicates the product uses LoRa™ radio technology.

This symbol indicates the product uses Bluetooth® wireless technology.

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

This symbol indicates that these types of electrical and electronic devices must be disposed of 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.

DECLARATION OF CONFORMITY

Solem declares that the LR-NR tap spout complies with the essential requirements of the European directives:

2014/53/UE (RED) directives:
Harmonised standards:
BLE standard: ETSI EN 300 328 v2.2.2
LoRa standard: ETSI EN 300 220-2 v3.2.1 & ETSI EN 300 220-1 v3.1.1
EMF standard: EN 62311 (2020) and the recommendation 1999/519/EC
EMC standard: ETSI/EN 301 489-1 v2.2.3, EN 301 489-3 V2.3.2 & ETSI EN 301 489-17 v3.2.4
Electrical Safety standard: EN 62368-1

RoHS Directive 2011/65/EU & amendment (EU) 2015/863

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