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› SOLEM LR-IP-FL Battery-Powered Irrigation Programmer User Manual

SOLEM LR-IP-FL

SOLEM LR-IP-FL Battery-Powered Irrigation Programmer User Manual

Model: LR-IP-FL

INTRODUCTION

The SOLEM LR-IP-FL is a waterproof Bluetooth and LoRa irrigation programmer designed for remote control and battery operation. This device integrates irrigation control with water flow and consumption monitoring for your system.

By connecting to a pulse counter of a water meter, the LR-IP-FL allows you to monitor and receive alerts for abnormal water flow (too much or too little) at each valve output, as well as detect leaks outside of irrigation periods. When paired with a Wi-Fi gateway (LR-MB) or a 3G gateway (LR-BST), the LR-IP-FL can be operated remotely using the MySOLEM application and platform.

PRODUCT FEATURES

- Supports 4 irrigation zones/stations.
- Powered by a standard 9V battery.
- Fully waterproof with an IP68 rating, ensuring durability in outdoor environments.
- Communication capabilities via Wi-Fi and Bluetooth for flexible control.
- Allows connection of a rain sensor or a water meter pulse sensor (maximum 10 Hz) for advanced monitoring and control through the MySOLEM platform.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x SOLEM LR-IP-FL Irrigation Programmer
- 1 x User Manual (this document)
- (Battery not included, requires 1 x 9V standard battery)

PRODUCT OVERVIEW



Figure 1: Front view of the SOLEM LR-IP-FL irrigation programmer. The device is black with the model number "LR-IP-FL" visible on the front. It features a connection point on the left and a threaded cap on the right, indicating a robust, sealed design.

SETUP

1. Battery Installation

1. Locate the battery compartment on the SOLEM LR-IP-FL unit.
2. Open the battery compartment cover. Ensure the seal is intact.
3. Insert one standard 9V battery, observing the correct polarity (+/-).
4. Securely close the battery compartment cover, ensuring a tight seal to maintain IP68 waterproofing.

2. Physical Installation

The LR-IP-FL is designed for outdoor installation. Mount the unit in a location that is easily accessible for maintenance but protected from direct physical damage.

- Use appropriate mounting hardware (not included) to secure the programmer to a wall or stable surface using the integrated mounting holes.
- Ensure the unit is positioned to allow for proper connection of irrigation valves and sensors.

3. Connecting Valves and Sensors

Connect your irrigation valves and optional sensors (rain sensor, water meter pulse sensor) to the designated terminals on the LR-IP-FL. Refer to the wiring diagram in the full technical manual for specific connections.

- Connect irrigation valve wires to the numbered terminals (1-4).
- Connect the common wire for all valves to the common terminal.

- For rain sensor or pulse sensor, connect to the dedicated sensor input terminals.

OPERATING INSTRUCTIONS

1. Initial Pairing (Bluetooth)

1. Download the MySOLEM application from your device's app store (iOS/Android).
2. Ensure Bluetooth is enabled on your smartphone or tablet.
3. Open the MySOLEM app and follow the on-screen instructions to add a new device.
4. The app will search for nearby LR-IP-FL devices. Select your device from the list to pair.

2. Remote Control (LoRa/Wi-Fi/3G)

For remote control beyond Bluetooth range, the LR-IP-FL must be paired with a SOLEM gateway (LR-MB for Wi-Fi or LR-BST for 3G).

1. Ensure your LR-MB or LR-BST gateway is properly set up and connected to the internet.
2. Within the MySOLEM app, link your LR-IP-FL to the gateway. This allows for long-range communication and control via the MySOLEM cloud platform.
3. You can now manage irrigation schedules, monitor flow, and receive alerts from anywhere with an internet connection.

3. Programming Irrigation Schedules

All programming is done through the MySOLEM application.

- Navigate to the "Schedules" section in the app.
- Create new programs by setting start times, run durations for each station, and watering days.
- Utilize advanced features like seasonal adjustment, rain delay, and cycle & soak if available in the app.

4. Flow Monitoring and Leak Detection

If a water meter pulse sensor is connected, the LR-IP-FL can monitor water flow.

- Configure flow thresholds within the MySOLEM app for each irrigation zone.
- The system will alert you if flow rates are outside the expected range during irrigation or if flow is detected when irrigation is off (indicating a leak).

MAINTENANCE

- **Battery Replacement:** Replace the 9V battery annually or when the MySOLEM app indicates low battery. Always ensure the battery compartment is sealed properly after replacement.
- **Cleaning:** Periodically clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners or solvents.
- **Seal Inspection:** Regularly inspect the seals around the battery compartment and wiring connections to ensure waterproofing integrity, especially after opening for maintenance.
- **Firmware Updates:** Check the MySOLEM app for available firmware updates for your LR-IP-FL and gateway. Install updates to ensure optimal performance and access to new features.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not appearing in MySOLEM app (Bluetooth)	Bluetooth is off; device is out of range; battery is dead.	Ensure Bluetooth is on; move closer to the device; replace battery.
No remote control (LoRa/Wi-Fi/3G)	Gateway is offline; LR-IP-FL not linked to gateway; internet connection issue.	Check gateway status and internet connection; ensure LR-IP-FL is linked in MySOLEM app.
Irrigation not starting	Low battery; valve wiring issue; program not active; rain sensor activated.	Check battery; inspect wiring; verify program schedule in app; check rain sensor status.
Inaccurate flow readings or leak alerts	Pulse sensor not connected correctly; sensor faulty; incorrect calibration in app.	Verify sensor wiring; test sensor; recalibrate flow settings in MySOLEM app.

SPECIFICATIONS

- **Model:** LR-IP-FL
- **Brand:** SOLEM
- **Number of Stations:** 4
- **Power Source:** 1 x 9V standard battery
- **Waterproof Rating:** IP68
- **Communication:** Bluetooth, LoRa
- **Sensor Input:** Rain sensor or water meter pulse sensor (max 10 Hz)
- **Compatibility:** MySOLEM application, SOLEM LR-MB (Wi-Fi) and LR-BST (3G) gateways
- **ASIN:** B0924RTMWZ

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SOLEM website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: SOLEM