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Solem LR-IP-1V

Solem LR-IP-1V 9V Bluetooth/LoRa Programmer User Manual

Model: LR-IP-1V | Manufacturer: Solem

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Solem LR-IP-1V 9V Bluetooth/LoRa Programmer. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

PRODUCT OVERVIEW

The Solem LR-IP-1V is a single-station irrigation programmer designed for remote irrigation systems. It features both Bluetooth and LoRa communication capabilities, allowing for flexible programming and extended radio range. Its robust IP68 waterproof rating ensures durability in various outdoor environments.



Figure 1: Front view of the Solem LR-IP-1V programmer, showing the main unit with its waterproof casing and connection points.

KEY FEATURES

- **Single Station Control:** Manages one irrigation zone.
- **Dual Communication:** Supports programming via MySolem platform or MySolem Bluetooth App, and LoRa for extended range communication with LR-MB or LR-BST stations.
- **Extended LoRa Range:** Up to 5 times longer radio range compared to standard methods, ideal for remote installations.
- **Power Supply:** Operates on a standard 9V battery.
- **High Durability:** IP68 waterproof rating, allowing for submersion without damage.
- **Output Connections:** Includes outputs for a master valve, rain sensor, and 9V solenoid.

SETUP

1. Battery Installation

1. Unscrew the cap on the side of the programmer.
2. Insert a new 9V alkaline battery, ensuring correct polarity.
3. Securely re-screw the cap to maintain the IP68 waterproof seal.

2. Wiring Connections

Connect the irrigation components to the programmer as follows:

- **Solenoid:** Connect the 9V solenoid valve wires to the designated terminals. The maximum distance to the solenoid is 30 meters.
- **Master Valve:** If applicable, connect the master valve wires to its dedicated output.
- **Rain Sensor:** Connect a compatible rain sensor to the rain sensor input terminals.

3. Mounting

The LR-IP-1V can be placed in a valve box or mounted on an exterior wall. Ensure the antenna (if using LoRa) is positioned for optimal signal reception.

OPERATING INSTRUCTIONS

Programming via MySolem App (Bluetooth)

1. Download the "MySolem" application from your device's app store.
2. Enable Bluetooth on your smartphone or tablet.
3. Open the MySolem app and follow the on-screen instructions to connect to your LR-IP-1V programmer.
4. Once connected, you can set irrigation schedules, run times, and other parameters directly from the app.

Programming via MySolem Platform (LoRa)

For LoRa communication, the LR-IP-1V must be within range of an LR-MB or LR-BST gateway. Programming is managed through the MySolem web platform.

1. Access the MySolem web platform using your credentials.
2. Ensure your LR-MB or LR-BST gateway is properly configured and connected.
3. Add your LR-IP-1V programmer to your account on the platform.
4. Configure irrigation programs and settings remotely through the web interface.

MAINTENANCE

- **Battery Replacement:** Replace the 9V battery annually or when the low battery indicator appears in the MySolem app.
- **Cleaning:** Periodically clean the exterior of the programmer with a damp cloth. Do not use abrasive cleaners.
- **Seal Integrity:** Ensure the battery compartment cap is always securely tightened to maintain the IP68 waterproof rating.
- **Winterization:** In freezing climates, remove the programmer and battery for storage indoors during winter months to prevent damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Programmer not responding via Bluetooth.	Bluetooth disabled on device; programmer out of range; low battery.	Ensure Bluetooth is enabled. Move closer to the programmer. Replace 9V battery.
Irrigation not starting.	Incorrect programming; low battery; faulty solenoid/master valve; rain sensor activated.	Check irrigation schedule in MySolem app/platform. Replace battery. Inspect wiring and components. Check rain sensor status.
Poor LoRa communication.	Programmer too far from gateway; obstructions; antenna not optimally placed.	Relocate programmer closer to LR-MB/LR-BST gateway. Ensure clear line of sight. Adjust antenna position.

SPECIFICATIONS

Feature	Detail
Model Number	LR-IP-1V (967051)
Stations	1
Communication	Bluetooth, LoRa
Power Supply	Standard 9V battery
Waterproof Rating	IP68
Outputs	Master valve, Rain sensor, 9V solenoid
Max Solenoid Distance	30 m
Dimensions (approx.)	Length: 14 cm, Height: 5.5 cm, Depth: 9 cm
Operating Temperature	0 to 50 °C (32 to 122 °F)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact your local distributor. Keep your purchase receipt as proof of purchase.

Manufacturer: Riegoprofesional

Note: Spare parts availability information is currently unavailable.