

Rémo-V

RMV-101

Relay module
to control a rolling shutter,
or other domestic motorization,
for an automatic opening and closing
based on user's presence
in a Room Service
home automation system

Room Service system

An Ingénovie home automation concept in which each room or house is managed by a room-manager, an autonomous control system responsible for managing heating, lighting and other electrical appliances automatically,

- According to your presence .
- According to necessity.

Rémo-V

The Rémo-V module allows a room manager to control a roller shutter or other small domestic motorization like as curtains, awning, shutters wings, and so on.

- Automatic shutter closing during your absence, and during the night to reinforce the security at home.
- Energy saving. A closed shutter during the night can reduce the window heat lost up to 60%.
- Anti-blocking system, to ensure proper closing of the shutter.
- Manual command using wall-switch remains available, and memorized for the next opening.

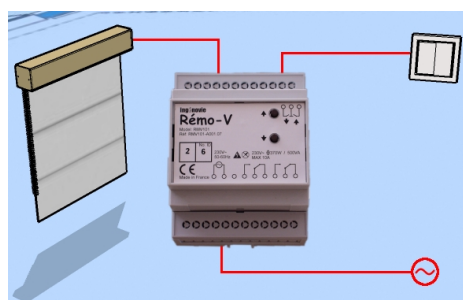
Characteristics

- Two complementary up-down relays to control a motor.
- Manual command for wall inverter switch.
- Setting / Calibration of the window height
- DIN-Rail format.
- Anti-blocking function.
- 16 levels setting.

Easy Installation

The Rémo-V module can be installed between the supply wires, manual wall switch and the shutter motor.

In some recent constructions, a wiring/junction box is usually planned for this purpose close to the window shutter.



The Rémo-V module receives commands from the room-manager by a Power-line carrier current system PoliNet, through the existing electrical installation.

Therefore there is no wiring to be done for this remote control function.

Anti-blocking function

Sometimes certain rolling shutter may be jammed in the middle of the window during lowering. The anti-blocking function deliberately shake the shutter up and down repetitively along the height of the window to avoid this incident.

Level Setting

16 positions of the shutter's opening level can be programmed according to the current mode or other contexts from a room-manager. It is possible for example, to set the shutter half-closed during the night and completely closed during absences.

It is possible also to allow the shutter opening only by manual command for more security or to automatically open it upon presence detected.

Intuitive manual commands

From the inverting wall-switch, two intuitive ways are available to manipulate the shutter:

- Press briefly to close or open the shutter completely.
- Keep pressed to adjust the level.

PoliNet Home Automation Network

Rémo-V is equipped with a PoliNet network module to communicate with its room-manager.

PoliNet network, an Ingénovie's innovation, offers important features to build a simple and reliable home automation system :

- Power-Line Carrier system (PLC), using existing electrical installation. Hence, the traditional installation remains operational.
- Secure bi-directional protocol. Each command is authenticated by an electronic signature, and acknowledged to ensure a good reception.
- Decentralized cooperative network. In this system there is no central unit that takes all the decisions. Several room-managers in an installation can communicate to each other to synchronize their operating modes. For example, the room-manager in the entrance will announce your arrival and the other room-to-managers may decide to raise their thermostats.
- Conforms to EN-50065. The European standard ensures, among others, that devices using the same frequency band can co-exist in the same installation.
- Flexible addressing. Each device is assigned a three-digit ID: house-id, room-id and device-id giving a broad and flexible address space for a home automation application.

Driver software

The Rémo-V driver software is integrated into the Room Services software suite.



- Automatic identification devices available in the network.
- Manual command : turn on, turn off and level change.
- Shortcut to the main menu.
- Label modification associated with the device.
- Configuration with other Room Services application.
- Modification of the device ID.

Room Services software suite

Rémo-V, like all devices managed by a room-manager may be associated with one or more application from the Room-Service software suite.

Each link has a specific configuration allowing you to create settings to be applied depending on the active/current context.

You can program for example,,

- Shutter closed during absence mode
- Shutter half open during the night.

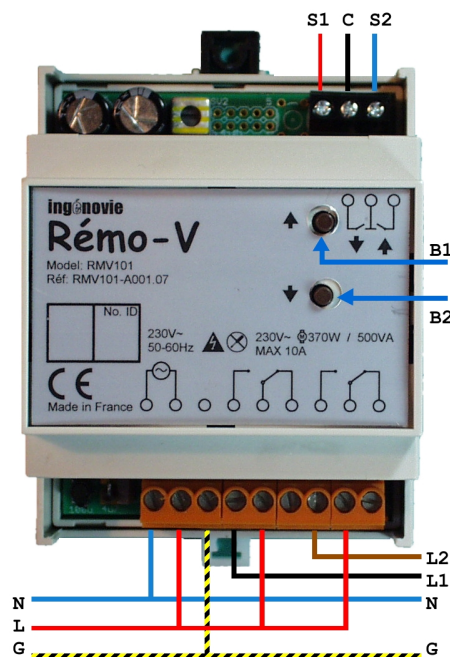
Some examples of applications available:

Morning-Call, with sunrise simulator and other functions for waking up softly.

Auto-lighting: automatic lighting when needed.

Day and Night: twilight detector.

Other applications may be available among the Room Services software suite.



Technical specifications :

Power Supply:

- Voltage / frequency 230V, 50/60Hz

Control Capacity

- Electric Motor up to 370W.

Cable diameter:

- 0,5mm - 4,0 mm.

Power Line Carrier :

- Protocol : PoliNet
- Frequency : 132 khz
- Compatibility : EN50065

Weight and dimension

- Dimension : 70 x 90 x 58 mm (l x w x h)
- Weight : 250 g.

Mounting :

- DIN-Rail EN 60 715 TH35.
- Wall mounting option with two screws

Window height calibration.

The Rémo-V module can memorize the window's height and the shutter's position at any time to be able to autonomously and securely close or open the shutter.

Two buttons on the front of the Rémo-V module, allows you to calibrate the fully-open and fully-close position, depending on the window's height..

See the installation guide for more details.

Application diagram

