



# PoSwitch

PSW-101

Power switch  
in a small module  
a wall outlet replacement  
to control an electric radiator  
or other electrical equipment  
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 necessity

The PoSwitch module allows room-manager to remotely control a electric heater or other electrical equipment.



## Characteristics

- Power switch for all types of electric heaters, towel dryer, etc....
- Provide power control for other types of electrical appliances up to 3600W.
- Adapted for 60mm wall mount box.
- Power regulation for electric radiators by power cycling.

## Easy Installation

The PoSwitch is designed to simply replace the wall outlet behind a radiator.

Control cable is not necessary, PoSwitch is capable of driving a load up to 3600W.

## Power regulation

PoSwitch can control the power delivered to a radiator by varying the ratio of power supply cycle.

16 levels of adjustment can be programmed according to the current mode or other contexts from a room-manager.

## Other applications

- Towel dryer
- Television and other audio / video appliances.
- Water heater
- Heat pump, small air conditioner
- Outdoor Lighting

## Reduce standby consumption.

Connected to a power bar, PoSwitch can turn off the connected devices when there is nobody in the room, and cut off standby consumption which is unnecessary in an empty room.

For example, a TV can consume up to 22W on standby, the equivalent of a light bulb turned-on all the time.

A single device does not present much, but together these devices may represent a significant waste of energy.

## PoliNet Home Automation Network

PoSwitch is equipped with a PoliNet network module to communicate with his 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 PoSwitch driver software is integrated into the Room Services software suite.



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

Some examples of the available applications that can be configured with PoSwitch module :



**Morning-Call.**

Turn on the towel heater before you wake up.



**Auto-lighting**

Use to PoSwitch with this application to control the architectural lighting, chandelier, fountain, garden lighting, etc.



**Day and Night**

PoSwitch associated with the twilight sensor can turn on the outdoor lightings.

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

## Technical specifications :

### Power Supply:

- Supply Voltage : 230V 50/60Hz

### Switch Capacity

- Charge non-inductif 16A (3600W).

### Cable diameter:

- 0,5mm à 2,0 mm.

### Power Line Carrier:

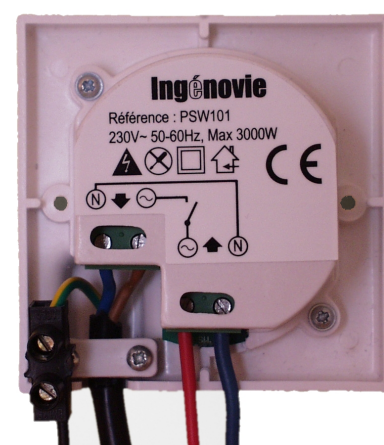
- Protocol : PoliNet
- Frequency : 132 khz
- Compatibility : EN50065

### Weight and dimension:

- Dimension : 80 x 80 x 40 mm (l x w x h)
- Weight : 110 g.

### Wall mounting box:

- Diameter : 60mm.
- Depth: 30mm (min)



## Room-Services software suite

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

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

For example, you can adjust the level of dimmer light depending on the current mode.

## Application diagram

