Power Line Carrier technology

To be used in new or renovated traditional installation (L+N required) up to 300 m²

PLC technology, which systematically includes neutral, is a control solution for managing functions such as lighting, roller blinds and heating. It can be used to control functions individually or by creating scenarios, or even remotely (via the Internet) using the IP Axiophone. All the functions can be combined with safety and communication solutions.

SIMPLE TO INSTALL FOR MAXIMUM COMFORT

WIRING DIAGRAM

PLC transmitter
IR receiver switch

PLC transmitter/ receiver switch

IR mobile scenario controller

www.klinkmann.com
LOCAL CONTROL

- **AUTOMATIC SWITCH** (See p. 442)
  - Controls and times the lighting each time someone passes
- **MOBILE DIMMER SWITCHED SOCKET** (See p. 529)
  - Controls the lighting from the socket

REMOTE CONTROL

- **MEDIA SERVER** (See p. 445)
  - Controls:
    - 10 scenarios, broadcasting Hi-Fi channels, home cinema, etc...
- **IP AXIOPHONE** (See p. 445)
  - Controls the electrical functions of the home remotely via the Internet

GENERAL CONTROL

- **CENTRALIZED ROLLER BLINDS CONTROL** (See p. 444)
  - Controls all the blinds in one single action
- **SCENARIO CONTROLLER WITH TOUCH SCREEN** (See p. 535)
  - Manual or automatic scenario control

MOBILE SCENARIO CONTROL

- **MOBILE SCENARIO SWITCH** (See p. 442)
  - Can control up to 6 scenarios from any chosen location
- **REMOTE CONTROL SCENARIO CONTROLLER** (See p. 442)
  - Controls the whole electrical installation.
  - Up to 4 scenarios plus TV

RANGES INCORPORATING PLC TECHNOLOGY

- **Céliane**
  - See p. 528–538
- **Galea Life**
  - See p. 648–671
- **Synergy**
  - See p. 590–591
- **Mallia**
  - See p. 630–631
**PLC lighting control**

Power line carrier technology with Céliane™ range

Cover plates, plates and supports selection chart (p. 549 to 565)

Particularly suitable for new buildings and heavy renovation

Can be installed in living areas, reception areas, working areas (stores, restaurants, medical centres...)

Can be controlled by IR from the same room or by PLC with lighting scenarios controller or other scenario controllers (p. 534, 535)

110-230 V

- 50/60 Hz

**Pack** | **Cat.Nos** | **Dimmer switches**
--- | --- | ---
1 | 672 12 | Switch for on/off/dimming control of the circuit connected to the terminals
With 2 factory-set lighting levels accessed using the + and - buttons
The transmitter function is used for on/off/dimming control of other light switches in the installation
The receiver function is used to execute on/off/dimming commands received from lighting scenarios controller (p. 534), on/off commands received from controllers (p. 534, 535), or any other lighting control in the installation, on its lighting circuit
3-wire installation in box depth 50 mm recommended
PLC transmitter/receiver and IR receiver dimmer switches with indicator
Display the light level via LEDs (5 blue LEDs)
Faulty load indicated by red LED
1 x 300 W Multi-load Protected against short-circuits
1 | 672 14 | 1 x 600 W Resistive and inductive loads

**Pack** | **Cat.Nos** | **Switches**
--- | --- | ---
1 | 672 03 | For the on/off control of local or remote circuits
Transmitter function: for the remote on/off control of other light switches in the installation
Receiver function: to execute commands received (via PLC or IR) from controllers (p. 534, 535), or from any other lighting control in the installation, on its lighting circuit...
1 | 672 09 | 1 x 1000 W - Any load
Automatic switch for control by detection of the circuit connected to the terminals
Manual override possible
Transmitter function: for the on/off control of other switches or controls in the installation
Receiver function: to execute commands received from scenarios controller (p. 534, 535), or from any other lighting control in the installation, on its lighting circuit
Adjustable light level, lighting period and detection sensitivity
Infrared detection
Range: 3 to 10 m
Time delay: 1 s to 16 min
Light level threshold: 3 to 1000 lux
Horizontal angle: 180°
3-wire installation in box depth 50 mm recommended

**Lighting environment controller**

PLC transmitter/receiver lighting environment controller

Used to switch on and off a group of switches or dimmer switches and manage 2 lighting scenarios
Ideal for increasing the number of control points
2 dedicated keys for on/off and dimming +/- functions
2-wire connection Phase and Neutral
Installation in box depth 50 mm recommended

**Scenario controllers**

IR mobile scenario controller

Can control up to 6 scenarios by infrared technology
LR 03 batteries supplied
IR remote control scenario

Allows the IR control of:
- In One TV (p. 648)
- 4 scenarios
- 1 TV
Automatic learning procedure
LR 03 batteries supplied

Céliane (p. 528)
Galea life (p. 648)
Synergy (p. 590)
Mallia (p. 630)

Red catalogue numbers: New products

672 10 (Oxidised Iron) 672 09 (Wenge Coloured)
**PLC lighting control**

**Power line carrier technology with Legrand wiring accessories ranges**

### Centralise your lighting

1. 2 dimmers with 2 lighting points in 1 room
2. 1 PLC lighting scenario switch to control 2 dimmers with a single action

<table>
<thead>
<tr>
<th>Range</th>
<th>1 PLC dimmers (300 W multi load)</th>
<th>2 PLC lighting scenarios controllers (600 W inductive/resistive load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>672 12</td>
<td>672 08</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 49</td>
<td>7756 38</td>
</tr>
<tr>
<td>Synergy - White</td>
<td>7358 16</td>
<td>7358 17</td>
</tr>
<tr>
<td>- Dark grey</td>
<td>7359 16</td>
<td>7359 17</td>
</tr>
<tr>
<td>Mallia - White</td>
<td>2818 03</td>
<td>2818 04</td>
</tr>
<tr>
<td>- Metal</td>
<td>2818 33</td>
<td>2818 34</td>
</tr>
</tbody>
</table>

+ Control a number of lighting points with a single action
+ Simplified wiring: no more need for wiring between appliances
+ Possibility to add mobile scenario controllers

### Increase the number of lighting points in a corridor with automatic switches

<table>
<thead>
<tr>
<th>Range</th>
<th>PLC automatic switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>672 15</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 21</td>
</tr>
<tr>
<td>Synergy - White</td>
<td>7358 14</td>
</tr>
<tr>
<td>- Dark grey</td>
<td>7359 14</td>
</tr>
<tr>
<td>Mallia - White</td>
<td>2818 05</td>
</tr>
<tr>
<td>- Metal</td>
<td>2818 35</td>
</tr>
</tbody>
</table>

+ Increase the number of lighting points in a corridor (no limit of lighting points number)
+ Simplified wiring: no more need for wiring between appliances

### Control your lighting without moving

1. 1 PLC switch in a room with one lighting point
2. 1 PLC mobile scenario switch to control 1 switch without moving

<table>
<thead>
<tr>
<th>Range</th>
<th>1 PLC switch with indicator</th>
<th>2 PLC mobile scenarios controllers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>672 03</td>
<td>682 01</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 35</td>
<td>682 00 (optional control of a TV set)</td>
</tr>
<tr>
<td>Synergy - White</td>
<td>7358 11</td>
<td>7358 11</td>
</tr>
<tr>
<td>- Dark grey</td>
<td>7359 11</td>
<td></td>
</tr>
<tr>
<td>Mallia - White</td>
<td>2818 01</td>
<td>2818 01</td>
</tr>
<tr>
<td>- Metal</td>
<td>2818 31</td>
<td></td>
</tr>
</tbody>
</table>

+ Possibility to control a switch via a remote control
+ No more need to wire up an additional switch in order to have another control point

### Light up a display window according to the day and time

Programme the time settings for a lighting environment
The lighting loads are connected to remote control dimmers
Cat.No 036 10 in the consumer unit

<table>
<thead>
<tr>
<th>Range</th>
<th>PLC lighting environment controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>672 09</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 41</td>
</tr>
</tbody>
</table>
**PLC roller blinds control**

**power line carrier technology with Céliane™ range**

![Image](image-url)

Cover plates, plates and supports selection chart (p. 549 to 565)

**Roller blinds switches**

<table>
<thead>
<tr>
<th>Pack</th>
<th>Cat.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>672 51</td>
<td>Individual switch</td>
</tr>
<tr>
<td>1</td>
<td>672 53</td>
<td>PLC transmitter and IR receiver centralised blind switches</td>
</tr>
</tbody>
</table>

**PLC transmitter/receiver and IR receiver individual blind switches**

- Control all types of 230 V~ electric blind motors to lower/raise/stop blinds with end stops
- SLat orientation function by long press
- Transmitter function: to control other individual blind switches in the installation
- Receiver function: to execute, on the motor connected to the terminals of the switch, commands received from scenario controllers (p. 534, 535), individual or centralised electric blind switches
- Installation in box depth 50 mm recommended
- Max. loads at 230 V~: 1 x 900 VA
- Incompatible with Budendorf motors

**Individual PLC roller blinds switch**

- Individual PLC roller blinds switch installed close to the blind to be controlled, flush-mounted, connected on the 230 V~ and to the terminals of the blind motor
- Install in the heart of the home, a PLC centralised roller blinds switch, flush-mounted and connected on the 230 V~
- Using the remote control, launch scenarios
- Control all individual switches can be centralised, reducing the amount of wiring
- Possibility to add mobile scenario controllers

**PLC centralised roller blinds switches**

<table>
<thead>
<tr>
<th>Range</th>
<th>PLC individual roller blinds switch</th>
<th>PLC centralised roller blinds switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>672 51</td>
<td>672 53</td>
</tr>
<tr>
<td>Galea Life</td>
<td>-</td>
<td>7736 26</td>
</tr>
<tr>
<td>Synergy</td>
<td>White 7358 21, Dark grey 7359 21</td>
<td>White 7358 22, Dark grey 7359 22</td>
</tr>
<tr>
<td>Mallia</td>
<td>White 2818 38, Metal 2818 39</td>
<td>White 2818 08, Metal 2818 38</td>
</tr>
</tbody>
</table>

**Wind/sun safety kit**

- Controls awnings or blinds automatically in the event of a too strong wind or excessive brightness
- The sensor is installed without wiring and without batteries outside in a place exposed to the wind and sun
- Adjustment of wind safety (between 7 and 80 km/h) and luminosity/brightness threshold; sending of measurements by radio to the control module
- Recharged independently by solar energy
- The control module is installed in the electrical consumer unit, connected on phase and neutral
- The transmitter function allows it to send raise/lower commands by PLC or Radio to the individual switch controlling the awning or blind

**Céliane** (p. 532)
**Galea life** (p. 654)
**Synergy** (p. 591)
**Mallia** (p. 631)

**Automatic opening of the blinds according to the sun and wind**

Wind/sun safety kit comprising:
- Wind/sun sensor located on the eaves, on the same side of the house as the awning
- Control module located in the consumer unit: receives the sensor commands and sends them to the individual awning switch
- Receiver individual awning switch: controls awning raising/lowering. Can be installed as a replacement for an existing control using the same wiring:
  - possibility of increasing the number of individual switches
  - it is possible to control the awning manually, unless the wind exceeds the preset safety threshold
Thermostats

<table>
<thead>
<tr>
<th>Pack</th>
<th>Cat.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>674 40</td>
</tr>
<tr>
<td>1</td>
<td>674 42</td>
</tr>
</tbody>
</table>

**For oil or gas boilers, radiant ceiling panels, direct underfloor heating**

**Room thermostat**
- Adjustment range 7 to 30 °C
- Adjustment accuracy ± 0.5 °C
- Direct connection of 8 A contact for new building work or combined with the PLC receiver Cat.No 036 00 (p. 537) for installation near the boiler for refurbishment work
- 7 day programming
- Constant display of the current programme on screen
- Adjustment range 7 to 30 °C
- Adjustment accuracy ± 0.5°C
- 2 adjustable temperature levels
- Permanent programme backup
- Working reserve 100 hours
- PLC thermostat
- 110/230 V~
- Breaking capacity 8 A max.
- Direct connection of 8 A contact for new building work or combined with the PLC receiver Cat.No 036 00 (p. 537) for installation near the boiler for refurbishment work

**Programmable room thermostats**
- 672 42 (Titanium)
- 672 80 (Mandarin)

**Scenarios controllers**

<table>
<thead>
<tr>
<th>Pack</th>
<th>Cat.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>672 80</td>
</tr>
</tbody>
</table>

**For remote control of all One by Legrand functions: lighting, blinds, heating**

**PLC transmitter scenarios controller**
- Can control 4 scenarios
- Indication of activation via blue LED
- 2-wire connection - Phase and Neutral
- Installation in box depth
- 50 mm recommended

**Switched sockets**

<table>
<thead>
<tr>
<th>Pack</th>
<th>Cat.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>882 63</td>
</tr>
<tr>
<td>1</td>
<td>882 64</td>
</tr>
</tbody>
</table>

**German standard**
**British standard**

**Céline** (p. 533)
**Galea Life** (p. 666)

Control your heating locally or remotely

1. Connect the underfloor heating circuit to a PLC multifunction receiver switch
2. Install a PLC room thermostat
   - It transmits on/off commands to the multifunction switch according to the desired temperature
3. Install an IP Axophone
   - It receives commands via the internet from a computer or mobile phone
4. An optional scenario switch can be added:
   - Leaving scenario: reference temperature -4 °C
   - Scenario can be modified remotely (2 hours before returning: reference temperature)

<table>
<thead>
<tr>
<th>Range</th>
<th>1 PLC multifunction switch</th>
<th>2 PLC thermostat</th>
<th>3 IP axiphone</th>
<th>4 PLC scenario switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céline</td>
<td>036 00</td>
<td>674 40</td>
<td>036 18</td>
<td>672 80</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7710 94 (white cover plate)</td>
<td>7756 63</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Keep the house at the right temperature at the right time with an oil or gas boiler

1. Connect the oil or gas boiler control unit contact to a PLC receiver modular multifunction switch
2. Install a PLC programmable thermostat
   - It transmits on/off commands to the multifunction switch according to the desired temperature to the nearest degree, on the days and at the time programmed

<table>
<thead>
<tr>
<th>Range</th>
<th>1 PLC multifunction switch</th>
<th>2 PLC programmable thermostat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céline</td>
<td>036 00</td>
<td>672 42</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 61</td>
<td></td>
</tr>
</tbody>
</table>
For installation in living areas, reception areas, offices and workplaces (shop, restaurant, medical centres, etc)

<table>
<thead>
<tr>
<th>Pack</th>
<th>Cat No:</th>
<th>Detectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>675 22</td>
<td>Flood detector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Detects the presence of a conducting liquid by activating the NC/NO relay and sending a scenario to activate an actuator or inform a controller of the leak. Supplied with 1 sensor and a 2 m cable. For mounting in a 2-gang Batibox box depth 50 mm.</td>
</tr>
<tr>
<td>1</td>
<td>675 23</td>
<td>Town gas or methane detector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Detects the presence of fuel gases such as town gas (methane) by activating the NC/NO relay and sending a scenario to activate an actuator or inform a controller of the leak. Conforming to standard EN 50194. For mounting in a 2-gang Batibox box depth 50 mm.</td>
</tr>
<tr>
<td>1</td>
<td>675 24</td>
<td>Butane/propane gas detector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Detects the presence of fuel gases such as butane/propane by activating the NC/NO relay and sending a scenario to activate an actuator or inform a controller of the leak. Conforming to standard EN 50194. For mounting in a 2-gang Batibox box depth 50 mm.</td>
</tr>
<tr>
<td>1</td>
<td>036 18</td>
<td>IP axiophone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To be installed inside an electric switchboard (size 6 modules). Power supply: 230 V AC. Has to be connected to the LAN (RJ socket). Allows the control of 10 scenarios and can relay the information of 5 events. Compatible with any product of the market equipped with web browser (PC, mobile phone, PDA...) and connected to the internet (fixed internet connection or mobile version like Wi-Fi). Can directly control PLC products and allows the displaying of any messages with its “Free text” zone (on its first page).</td>
</tr>
<tr>
<td>1</td>
<td>036 00</td>
<td>Lexic modular interface</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PLC transmitter/receiver multifunction switch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For installation in the electrical consumer unit to control 1 or 2 circuits linked to its terminals in one of 4 different operating modes: pushbutton, switch, time switch, latching relay. The receiver function is used to execute, on its circuits, on/off commands received from scenarios controllers (p. 534, 535) or any other lighting control in the installation. Possibility of switching off the whole installation by a scenario irrespective of the operating mode selected. Also has 2 auxiliary inputs for executing, on its circuits, on/off commands received by a potential-free contact.</td>
</tr>
</tbody>
</table>

**Galea Life (p. 664)**

### Cut-off your water supply in the event of a leak and receive an alert on your scenario controller

1. Install a water leak detector in a place at risk (kitchen, laundry room, etc...) if it detects a conducting liquid, the detector can activate a solenoid valve via multifunction switch Cat.No 036 00 which automatically closes off the water supply. (manual reset mandatory)
2. If it detects a leak, the detector can activate a solenoid valve via multifunction switch Cat.No 036 00 which automatically closes off the incoming gas supply (manual reset mandatory)
3. If tripped, your scenario controller will display the action on its screen.

<table>
<thead>
<tr>
<th>Range</th>
<th>PLC</th>
<th>PLC multifunction switch</th>
<th>PLC multifunction switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>675 22</td>
<td>036 00</td>
<td>672 84</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 77</td>
<td>036 00</td>
<td>7756 19</td>
</tr>
</tbody>
</table>

### Cut-out your gas supply in the event of a leak and receive a remote alert

1. Install a gas detector in a place at risk (kitchen, boiler room, etc...). If it detects a leak, the detector can activate a solenoid valve via multifunction switch Cat.No 036 00 which automatically closes off the incoming gas supply. (manual reset mandatory)
2. It can be combined with the IP axiophone Cat.No 036 18 for remote alerting.

<table>
<thead>
<tr>
<th>Range</th>
<th>PLC gas detector</th>
<th>PLC multifunction switch</th>
<th>IP Axiophone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Céliane</td>
<td>675 23</td>
<td>675 24</td>
<td>036 00</td>
</tr>
<tr>
<td>Galea Life</td>
<td>7756 77</td>
<td>7756 79</td>
<td>036 18</td>
</tr>
</tbody>
</table>
**scenario controls for remote controls**

**power line carrier (PLC) technology**

**IP axiophone installation principle**

- Remote access
- Wap - Telephone
- Communication
- DTI
- ADSL filter
- Modem ADSL router
- Switch
- Local installation
- LAN
- Local PC
- IP Axiphone
- **Switch**

**Example of use of the Media Server**

1. Install a cabinet for communication network
2. Install RJ 45 sockets: one per computer, one close to the TV
3. Install and use the Media Server software on each of the networks computer (CD supplied)
4. Connect the Media Server and use the remote control supplied to select, to listen and watch on TV videos, images, music stored on the computers

**IP axiphone operating principle**

- Secure login screen which allows local or remote internet access to control installation
- Customisation of scenarios
- Possibility of controlling and saving up to 10 scenarios
- Screen for remote control of different scenarios (lighting, blinds, heating, etc.) with message confirming the scenario launched
- Screen for viewing different events so as to be alerted in the event of an intruder, technical detection, etc. in a house