



### INSTALLATION INSTRUCTION: Gateway GW1

The Gateway GW1 ( Gateway in the remainder of this document) is a product in the Luminext program for dynamic dimmable street lighting with remote management. The Gateway is provided with a relay for connection of external loads. The Gateway can be mounted inside an IP65 cabinet together with the appropriate 868 MHz and GSM antennas. The Gateway automatically forms a wireless-sensor-and-control network with the surrounding OLC300S controllers that is self-organizing and self-synchronizing.

#### Safety



- Installation should be performed by qualified personnel only.
- Adhere strictly to the installation instruction below to avoid danger and damage to the Gateway.
- Disconnect power at the source before installation, inspection or removal. The voltages at the primary side of the Gateway are not touch proof.



- Do not use the Gateway if it is damaged.
- Never power the Gateway without the associated 868 MHz antenna (Luminext article 40.20.300) properly connected.
- The electrical installation must be in conformance with the national legislation and relevant standards.
- The mains connection of the Gateway must be provided with a 2A fuse and a possibility to disconnect the mains.
- The Gateway must be mounted in an IP65 classified housing.

**Contact information: for more info please contact the product supplier**

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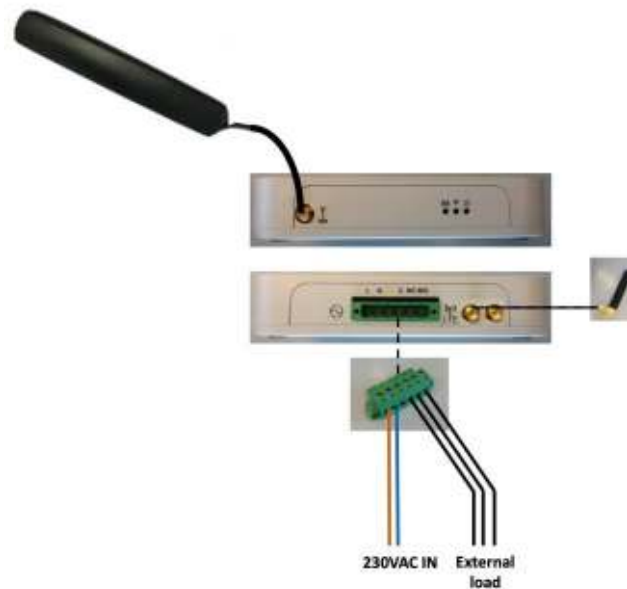
## Installation

1. Disconnect the power to the Gateway and read the safety instructions above.
2. Check if the cabinet is suitable for mounting the Gateway and make sure the area is IP65.
3. Check the Gateway: make sure the Gateway is not damaged.
4. Directly connect the suitable 868 MHz antenna (Luminext article 40.20.300). Never power the Gateway without an appropriate 868 MHz antenna connected.
5. Fix the sma connector with a wrench so this won't turn loose due to vibrations.
6. Connect a suitable GSM antenna (Luminext article 40.10.000 'haaks').
7. If needed, connect external 868 MHz and GSM antennas.
8. The Gateway is provided with a product label which contains an ICCD number of the present SIM card of the GSM modem. Ensure that the SIM card is activated.
9. The product label of the Gateway contains a gateway ID. Ensure that the gateway ID is administrated in Luminizer.
10. Mount the Gateway sturdily to the cabinet, e.g. with double side tape. If in doubt contact Luminext.
11. The Gateway can be used to switch an external load. See wiring diagram below.
12. Use 1.0 mm<sup>2</sup> wiring for all connections. Push the wires completely into the terminal block and turn the screws. Use wire end sleeves when using flexible wires.
13. Mount the antenna with the 3M double sides adhesive tape to the Gateway.
14. Connect a 230V AC power cable to the Gateway according to the wiring schedule below.
15. Close the cabinet. Take care that no wires or objects get in between the seals.
16. Connect the power cable to 230 V AC power and test the correct functioning of the Gateway. In case of malfunctioning check the wiring.
  - When connect to power the power right LED will lit.
  - When communication with surrounding OLC300S controllers takes place, the centre LED will lit.
  - When communication with Luminizer takes place, the left LED will lit. This may take several minutes.
  - Check if the surrounding OLC300S network can be controlled via the Gateway.

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## Wiring diagram



Connect the 230VAC to the terminals marked with L and N.

If needed, connect an external load to the terminal marked with C (Common) and one of the terminals marked with NC (normally closed) or NO (normally open).

## Configuration

When the Gateway is powered, the SIM card is activated and the gateway is administrated in Luminizer, the left and right LED should lit. Dependent of the GSM range this may take several minutes. The center LED will lit as soon as communication with surrounding OLC300S controllers takes place. Use the Luminizer management software for configuration of the Gateway.

## Mounting

The Gateway can be mounted inside a cabinet as well as externally on a light pole. In the cabinet you must apply the 'Vandal-proof cabinet antenna' (as shown below), which needs to be installed in the cabinets roof.

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Example: cabinet



Example: light pole

## Usage

The Gateway will control the lamps connected to the surrounding OLC300S network.

## Compliance



This product complies with the European directives and relevant standards for low voltage, EMC, RED, REACH and RoHS. The Gateway contains an 868 MHz and GSM radio. The applied frequency of the 868 radio is within the band 869.400 – 869.650 MHz and the maximum transmit power is +20 dBm. The applied frequency of the GSM radio is within the band 880 - 960 MHz or 1710 - 1880 MHz and the maximum transmit power is +35 dBm or +32 dBm.

Hereby, Luminext declares that the radio equipment type Gateway is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at [luminext.eu](http://luminext.eu)

## Repair

Do not open this product. In case of failure the Gateway must be replaced.



## Recycling

Do not dispose this product as household waste, but bring it to an appropriate collection point for recycling.

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