

SELF TESTING MAINTAINED EMERGENCY LUMINARY WITH WIRELESS COMMUNICATION



TECHNICAL CHARACTERISTICS (for LED MODULE Specs. see page 2)

	GR-2100/ST/M/WL	GR-2110/ST/M/WL
OPERATION VOLTAGE	220-240V AC/50-60Hz	
MAXIMUM POWER CONSUMPTION	3.3W / 3.6VA	
BATTERY (Ni-Cd)	3.6V/600mAh	3.6V/1.5Ah
Tx/Rx frequency range	868 - 870MHz	
Tx power	11dBm	
INDICATIONS - CONTROLS	Battery and charge Fault indication LEDs, TEST button	
CHARGING TIME	16 h	24 h
MINIMUM AUTONOMY DURATION	1.5 h	3 h
ILLUMINATION SOURCE	12 White LEDs	
ILLUMINATION (230V AC / emergency)	100lm / 100lm	
VEWING DISTANCE	22m	
DEGREES OF COVER PROTECTION	IP30	
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, ETSI EN 303 446-1 v1.1.0, ETSI EN 300 220-2 v3.1.1	
OPERATION TEMPERATURE RANGE	5 to 40 °C	
RELATIVE HUMIDITY	up to 95%	
CONSTRUCTION MATERIALS	ABS/PC, PC	
EXTERNAL DIMENSIONS	292 x 111 x 54 mm	
TYPICAL WEIGHT	476gr.	557gr.
GUARANTEE	3 years (1 year for the battery)	

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GENERAL

These luminaires are used indoors (ta 40°C) where emergency light is needed.

Each luminaire must be permanently connected to mains power supply. In normal operation the illumination LEDs are lit as well as the green indicating charge LEDs when the battery is charging. In case of a mains power supply failure, the luminaire enters in emergency mode and will light automatically. When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on page 3.

Battery Charging

The battery charging procedure is controlled by the processor, thus maintaining its best possible preservation, as it extends its duration.

Battery Cut-off

The luminaire enters this mode when the mains power supply fails and battery has lost all its energy. During this operation the luminaire enters the idle state and battery consumption is negligible, in order to be protected from deep discharge.

Manual Operational Test

This test can be done by pressing the test button. The light source and the emergency circuit of the device are monitored for 3 sec. The manual test can be conducted only if the mains power supply and the battery are connected. During this test period all indication LEDs are OFF.

Automatic Operational Test

This test includes all the operations of the manual test and is conducted automatically every 15 days. In order to be performed, the mains power supply and the battery should be connected.

Automatic Autonomy Test

The Automatic Autonomy Test measures the device's back up operation and emergency duration. This test is conducted automatically every 6 months. In order to be performed, the mains power supply and the battery should be connected and fully charged. If the battery is not fully charged, the test is postponed until the battery is completely charged. If during this test, the autonomy is less than nominal, the battery fault led turns on continuously and the battery must be replaced.

Emergency Operation

The autonomy duration of battery during emergency mode is at least 90 or 180 minutes, depending on the model. During emergency mode, a light source test is also performed.

Wireless communication

The WL luminaire models have the ability to communicate over the air with Olympia's control panels for wireless emergency luminaires. The luminaires can also communicate with a PC/laptop through a gateway (Ethernet, Wi-Fi, USB). For more information, please refer to Wireless Emergency Lighting guides, available on the company's website.

Resetting Errors

Push the Test button for more than 10 seconds, to delete all the indicated LED errors. Then the device enters regular operation mode.

Indication LED status (with connected mains power supply).

Charge (Green LED)

Blink: Battery is charging.

On: Good charge condition.

Off: No battery (No charging current or disconnected battery).

Fault (Red LED)

On : Faulty LED strip (must be replaced) or emergency circuit (must be checked by an authorized personnel).

Blink (With Charge LED ON): Autonomy or low battery problem (the battery must be replaced).

Off: LED strip and battery ok.

ATTENTION!!!

1. Operations for installation, maintenance or testing must be done by authorized personnel only.
2. The device must be connected to the mains power supply through a fuse dependent by the total amount of the line's power load.
3. In case of inactive use for a period greater

than 2 months, disconnect the battery by pulling out the battery's connector.

4. **It is not allowed to discard batteries into common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**



NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

B: Including remote test mode

C: Including inhibiting mode

F: Automatic test gear complying with IEC 61347-2-7 denoted EL-T

90: 1.5 hour duration

180: 3 hours duration

NOTE!! The installer should fill in, on the specification label, the letter **G** if the luminaire is used as a safety sign.

X 1 A B C F 1 8 0



G

(*) Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.

Battery replacement.

It can be done only by a competent person and after the mains interruption.

1. Dismantle the device (step 1 of the installation instructions).
2. Disconnect the connector and remove the old battery.
3. Connect the new battery with the same type (step 4 of the installation instructions) and place it in the position of the old one.
4. Follow the step 6 of the installation procedure and power the device.

LED MODULE CHARACTERISTICS

	GR-2100/ST/M/WL	GR-2110/ST/M/WL
Manufacturer	Olympia Electronics S.A	
Model Number	3105165	
Voltage Range	8.7-10.8VDC	
Nominal Power	780mW	
Connections	Non reversible connection between main pcb and led module	
Temperature (tc)	45 °C max. across the board	

Wireless Communication LED indications (interior)

The **top LED** (LD3-green) indicates the network connection status.

This LED may blink according to the following patterns:

1. Steady ON: The device has established direct connection to a Gateway device, and at least one more Gateway device is available for alternate routing (false condition).
2. Rapid flash [5 times/s]: The device has established direct connection to a single Gateway device.
3. Fast flash [2 times/s]: The device has established connection to a Router device and at least one more Router device is available on the same hop level, as an alternate route (redundant connection).
4. Moderate flash [1 second ON / 1 second OFF]: The device has established connection to a single Router device, and no alternatives exist on the same hop level.
5. No light: The device is disconnected.

The **middle LED** (LD2-green) indicates the received signal strength (RSSI) of the router module.

This LED may blink according to the following patterns:

1. Very fast flash [5 times/s]: received signal strength is excellent.
2. Fast flash [2 times/s]: received signal strength is good.
3. Moderate flash [1 second ON / 1 second OFF]: received signal strength is acceptable for reliable communication.
4. Very slow [2 seconds ON / 2 seconds OFF]: received signal strength is not acceptable for reliable communication, or no signal.

The **bottom LED** (LD1-red) indicates operation status.

This LED may blink according to the following patterns:

1. Very fast blink [5 times/s]: the module is not initialized correctly. In this case you have to press for more than 2 seconds the push button, in order to reset the module (loads default settings).
2. Moderate flash [2 times/s]: The module is properly operating.

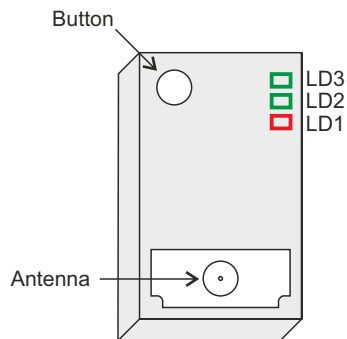
Button functionality:

The on-board button has the two following functions:

1. Short press (<2"): a status message will be sent to the Gateway device of the wireless network.
2. Long press (>2"): Loads factory default settings to the module.

Default settings:

- SID: 00000001
- RF Channel: 13 (869.525MHz)



INSTALLATION INSTRUCTIONS

Figure 1

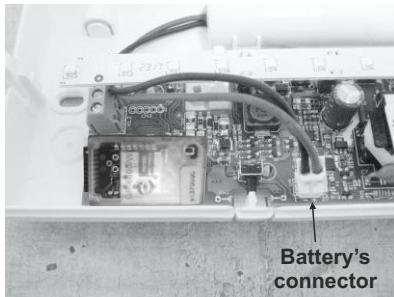
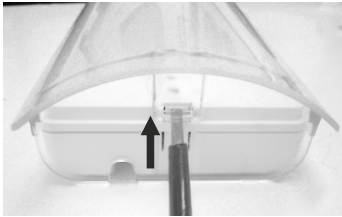


Figure 3

Figure 2

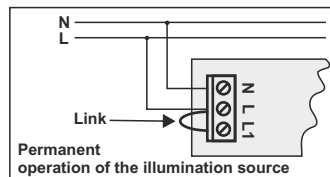
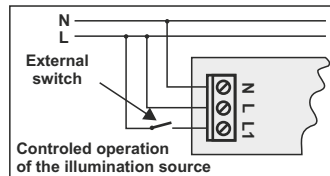
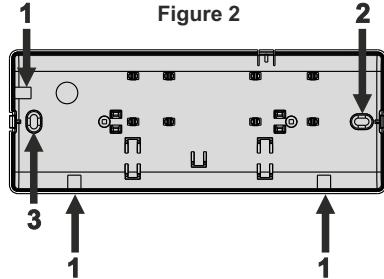


Figure 4

1. To instal the device you have to dismantle carefully the device with a flat screwdriver as shown on figure 1.
2. Pass the mains cables through one of points 1 on figure 2. The luminaire must be connected to a permanent electrical installation to ensure the immobilization of the cable.
3. Mount the base plastic on the wall by using the included mounting accessories in points 2 and 3 on figure 2.
4. Connect the mains cables to the respective detachable terminal block. **N for neutral, L for live wire and L1 for the maintained operation.** The L1 wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire. For permanent maintained operation use two wires to power the luminaire, N for neutral and L for live wire, and link the L and L1.
5. Connect the battery's cable with the appropriate terminal (figure 3).
6. Refit with care the removed plastic parts and power on the luminaire.

NOTE!!

After finishing the installation you must power the luminaire at least for 24 hours for battery charging to perform the nominal autonomy.



The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

NOTE! *The light source is non-user replaceable.*

WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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