

SELF TESTING MAINTAINED EMERGENCY LUMINAIRES WITH LED's



TECHNICAL CHARACTERISTICS (for LED MODULE Specs. see page 5)	GRL-822/EM	GRL-824/EM	GRL-832/EM	GRL-834/EM	GRL-842/EM	GRL-844/EM
OPERATION VOLTAGE	220-240V AC/50-60Hz					
MAXIMUM POWER CONSUMPTION	7.5W/10.1VA	7.5W/10.1VA	9.8W/12.3VA	10.1W/12.7VA	11.7W/14.2VA	12.1W/14.9VA
BATTERIES (Ni-Cd)	3.6V/1.5Ah		4.8V/1.5Ah		4.8V/1.5Ah	
BATTERY PROTECTION	From overcharge and full discharge					
INDICATIONS - CONTROLS	Charge LED, Lamp fault LED, Fault LED, TEST button					
CHARGING TIME	24 h					
MINIMUM AUTONOMOUS DURATION	90 min	3 h	90 min	3 h	90 min	3 h
ILLUMINATION SOURCE	White LED's					
LIGHT SOURCE INTENSITY (Mains/emerg.)	510lm / 255lm		680lm / 340lm		850lm / 425lm	
DEGREES OF COVER PROTECTION	IP42					
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 1838					
OPERATION TEMPERATURE RANGE	5 to 40 °C					
RELATIVE HUMIDITY	Up to 95%					
CONSTRUCTION MATERIALS	Aluminum, Bayblend FR3010, transparent polycarbonate					
EXTERNAL DIMENSIONS (LxWxH)	390 x 50 x 280 mm		480 x 50 x 340 mm		635 x 50 x 420 mm	
TYPICAL WEIGHT	1300gr.	1350gr.	1720gr.	1820gr.	2370gr.	2470gr.
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 (L1 connected to L) the led strip lights and the battery is charging. In case of a mains power supply failure the luminaire will light the led strip automatically in emergency mode (powered by its battery). When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on page 2.

Battery Charging

The battery charging is completely controlled. Thereby, the best possible battery maintenance is achieved, as well as the elongation of its duration. When the battery has completely charged, it charges with a maintenance current.

Battery Cut-off

The luminaire enters in this operation when the mains power supply fails and battery has lost 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 Test

This test can be done by pressing the test button. The light source and the emergency

circuit of the device is monitored. The manual test can be conducted only if the main power supply and the battery is connected. During this test period all indication LEDs are OFF.

Automatic Operational Test

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

Automatic Autonomous Test

The Automatic Autonomous Test is conducted and measures the device's back up operation and emergency duration. This test is conducted automatically every 6 months. In order to be performed, the main 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 then the battery fault led turned on continuously and the battery must be replaced.

Back Up Operation

The autonomous duration of battery during emergency mode is at least the one that is stated in the list of the technical characteristics. During emergency mode, a light source test is also performed.

Resetting Errors

Push the Test button for more than 5 seconds,

to delete all the indicated LED errors. Then the device enters regular operation mode.

Indication LED status (with connected mains power supply).

Charge

On: Good charge condition.

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

Lamp Fault

On (with LED strip off): faulty LED strip (must be replaced).

On (with LED strip on): Problem in the back up circuit of the LED strip (must be checked by an authorized personel).

Off: Good LED strip.

Battery Fault

Off: Battery OK.

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

Blink (With Charge LED Off): No charging current or disconnected battery.

ATTENTION!!!

1. Operations for installation, maintenance or testing must be done by authorized personel 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 battery or lamp replacement, these must be replaced by parts of the same type, by the manufacturer or by a competent person.

4. In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.

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



INSTALLATION INSTRUCTIONS

ELECTRICAL CONNECTIONS

- ① Dismantle the luminaire by pushing the lock/unlock button and slide the luminaire to the right and pull it down.
- ② Pass through the cables from the entry hole and connect them as shown in the picture. You can link the **L** and **L1** terminals for permanent maintained operation or you can connect one live wire through an electric switch for controlled maintained or non maintained operation.
- ③ The battery must be connected.
- ④ Place upwards the luminaire and slide it to the left. The lock/unlock button appears indicating that the luminaire is securely installed.
- ⑤ Power on the device.

FLAG MOUNTING INSTALLATION (optional)

Install the flag mounting base on the wall (page 3) and perform the respective steps of the electrical connections.

SURFACE MOUNTING ON A WALL (single sided)

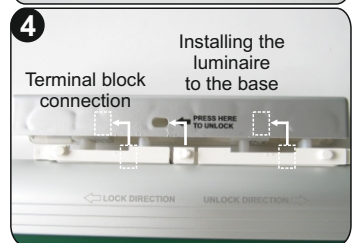
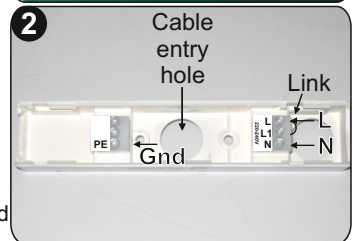
Install the included plastic bracket on the wall (page 3) and perform the respective steps of the electrical connections.

CEILING INSTALLATION

Install the mounting base on the ceiling (page 3) and perform the respective steps of the electrical connections.

HANGING INSTALLATION (optional)

Install the mounting base (tube) on the ceiling (page 4) and perform the respective steps of the electrical connections.



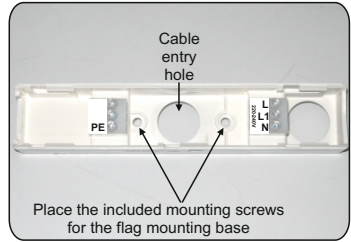
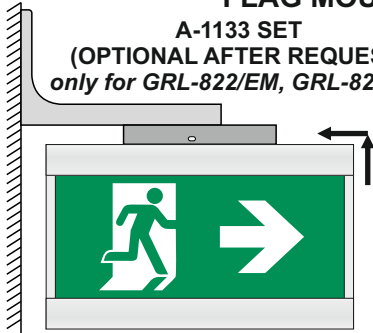
NOTE!!

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

MOUNTING METHODS

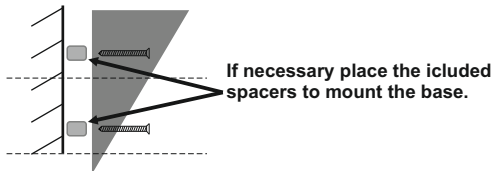
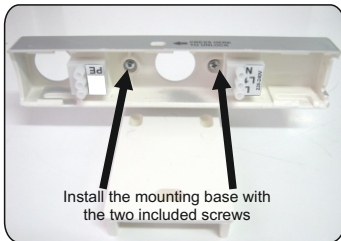
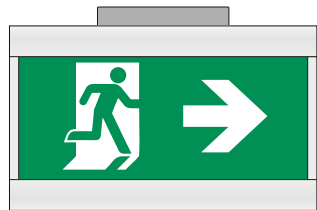
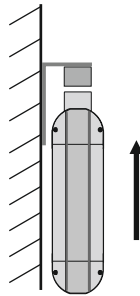
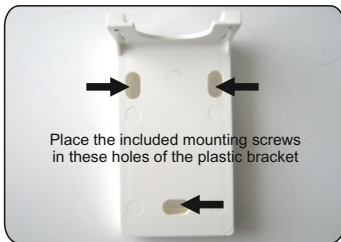
FLAG MOUNTED ON A WALL

A-1133 SET
(OPTIONAL AFTER REQUEST)
only for GRL-822/EM, GRL-824/EM

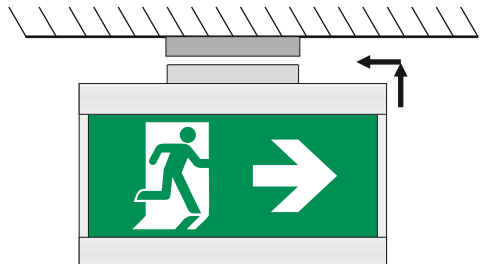
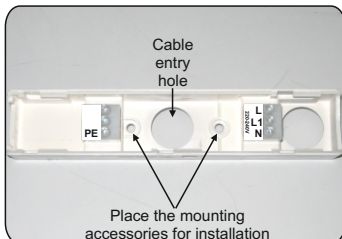


SURFACE MOUNTING ON A WALL (single side luminaire)

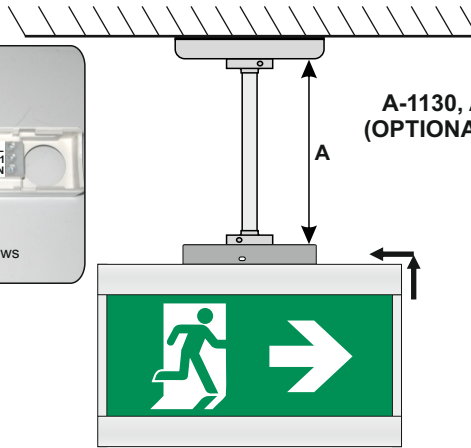
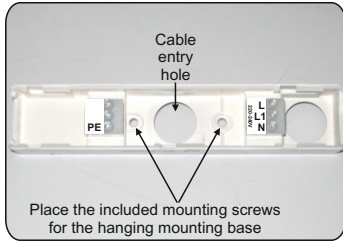
A-1134 SET
(INCLUDED IN THE PACKAGE)



CEILING MOUNTED

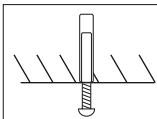


HANGING INSTALLATION



A-1130, A-1131, A-1132 SET
(OPTIONAL AFTER REQUEST)

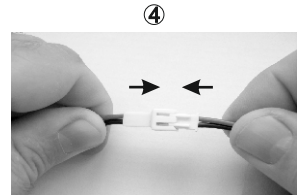
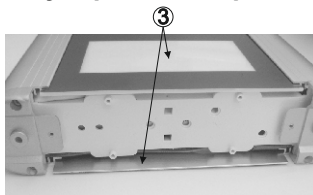
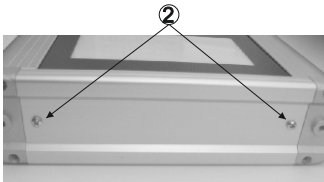
	Tube
A-1130	A=1m
A-1131	A=0.5m
A-1132	A=0.25m



GENERAL!!

Measure the distance of the mounting holes and after the drilling place on these spots the mounting plugs and fasten the base with the mounting screws.

Battery replacement process



- ① Follow the step 1 of the installation instructions on page 2.
- ② Remove the metal side cover, by unscrewing the two retaining screws.
- ③ Remove the acrylic plates by sliding them out.
- ④ Remove the old battery and install the new battery's connector as shown in the picture.
- ⑤ Refit the acrylic plates and the side cover by screwing the removed screws in step 2.
- ⑥ Mount the luminaire on its base and power on the device.

WARNING!! Use a maximum torque of 0,5Nm to tighten the screws.

NOTE!!

In case of battery replacement the used battery must be replaced with a new one of the same type, by the manufacturer or by a competent person.

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

G: Internally illuminated

***90:** 1.5 hour duration

180: 3 hour duration

(*) 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.



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.

LED MODULE CHARACTERISTICS						
	GRL-822/EM	GRL-824/EM	GRL-832/EM	GRL-834/EM	GRL-842/EM	GRL-844/EM
Manufacturer	Olympia Electronics S.A					
Model Number	1702153		1802153		1902153	
Voltage Range	11.6-14.4VDC					
Nominal Power	3.9W		5.2W		6.5W	
Connections	Cable connection between main pcb and led module					
Temperature (tc)	50 °C max. across the board					

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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