

**ADDRESSABLE WATERPROOF SELF TESTING MAINTAINED EMERGENCY LUMINAIRES WITH WHITE LEDs**



**TECHNICAL CHARACTERISTICS** (for LED MODULE Specifications see page 5)

	GR-938/4P/ADR	GR-939/4P/ADR	GR-938/6P/ADR	GR-939/6P/ADR
OPERATION VOLTAGE	220-240V AC/50-60Hz			
MAXIMUM POWER CONSUMPTION	4W/7.5VA	5W/7.7VA	5.9W/8.4VA	6W/8.5VA
BATTERIES (Ni-Cd)	4.8V/1.5Ah	4.8V/3Ah		4.8V/4Ah(Ni-MH)
BATTERY PROTECTION	From overcharge and deep discharge			
INDICATIONS	Charge, lamp fault, fault indication LED			
CHARGING TIME	24h			
MINIMUM AUTONOMOUS DURATION	90min	180min	90min	180min
ILLUMINATION SOURCE	4 white power LEDs		6 white power LEDs	
ILLUMINATION (MAINS / EMERGENCY)	175/350lm		245/480lm	
DEGREES OF COVER PROTECTION	IP65			
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3			
OPERATION TEMPERATURE RANGE	5 to 40 °C			
RELATIVE HUMIDITY	Up to 95%			
CONSTRUCTION MATERIALS	ABS/PC, PC			
EXTERNAL DIMENSIONS	363 x 145 x 73 mm			
TYPICAL WEIGHT	940gr.	1030gr.		1080gr.
GUARANTEE	3 years (1 year for the battery)			

**Thank you for your trust in our products  
Olympia Electronics - European manufacturer**

**GENERAL**

These luminaires are used in places where emergency luminaires are 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.

**Address Operation**

The luminaires can be connected to a GR-6500 address panel. For address operations refer to the installation manual of the panel. For address module connections see page 3. For dip-switch addressing selection see page 4, 5 and 6.

**INSTALLATION**

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

**Battery Charging**

The battery charging is completely controlled. In this case, 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/RESET button briefly (page 3). The light source and the emergency circuit of the device is monitored. The manual test can be conducted only if the mains power supply and the battery is connected. During this test period all indication LEDs are OFF.

**Tests**

Normally the illumination source and the autonomy tests are programmed by the control panel and the test results are sent to the control panel.

***If the luminaire is not connected to GR-6500 panel, the following automatic tests executed:***  
**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 mains 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 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 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/RESET button (page 3) 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 current.

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

##### Lamp Fault (with L1 connected to L)

**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 personnel).

**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 personnel only.

2. The device must be connected to the mains power supply through a fuse dependent on 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.**

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

#### Battery replacement

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

1. Unfasten the 4 retaining screws (step 10 of the installation instructions) and remove the diffusor.

2. Unfasten the 2 retaining screws step 9 of the installation instructions and remove the reflector.

3. Remove the old battery and place a new one of the same type and characteristics.

4. Replace the removed parts (previous steps 1,2).

#### NOTE: LED= Light Emitting Diode LABELING EXPLANATION:

**X:** Self contained

**1:** Maintained (\*)

**A:** Including test device

**B:** Including remote rest mode

**C:** Including inhibiting mode

**G:** Internally illuminated safety sign

**\*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 G \* 9 0

(\*) 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.

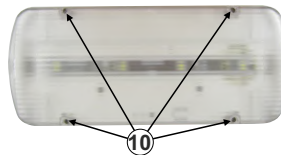
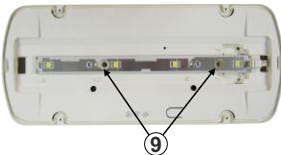
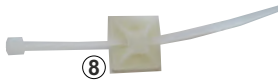
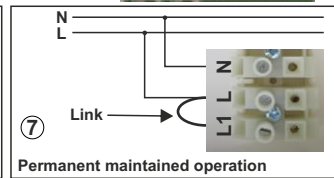
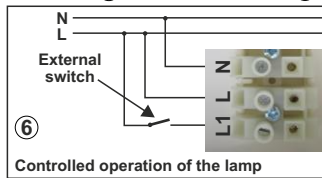
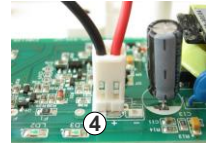
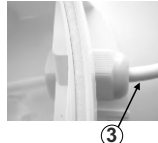
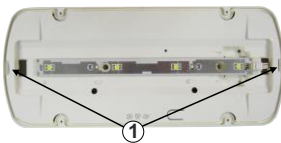


The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

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

## INSTALLATION INSTRUCTIONS FOR WALL OR CEILING MOUNTING

1. Remove the diffuser. Place a flat blade screwdriver and pull up gently the reflector.
2. Install the included plastic cover in to the unused hole and install the base plastic (with the included mounting screws and plugs).
3. **Always use in any case round mains cable, with a diameter of 6-9mm (H05RN-F type 2x1mm<sup>2</sup> or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the tightness isolation IP65).** Install the cable gland, pass the round cable through and tighten it all the way.
4. Place the battery's connector to the corresponding connector on the PCB.
5. Connect the mains cables to the respective terminal block (connect the ground wire if required).
6. **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 operation of the luminaire.
7. 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**.
8. Install the included tie (if needed) to fasten securely the power cables.
9. Refit the reflector and fasten the two small screws (included).
10. Finally place the diffuser by using the 4 included screws (tightening torque 1.2 N\*m).



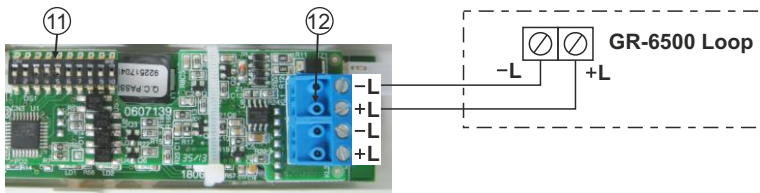
**Manual TEST or Resetting Errors**  
 In order to test or reset the device you must carefully remove the diffuser by unfastening the 4 mounting screws. Then push the button as described in the according paragraphs on page 1.



### Address module connections

- 11 To connect the address cables, remove the detachable terminal blocks and perform the connections.
- 12 Attach the removed terminal blocks and address the luminaire by using the dip-switches (see page 5,6 and 7).

*Attention!! The dip-switches 9 and 10 must be in off position*



Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting
1		31		61		91		121		151	
2		32		62		92		122		152	
3		33		63		93		123		153	
4		34		64		94		124		154	
5		35		65		95		125		155	
6		36		66		96		126		156	
7		37		67		97		127		157	
8		38		68		98		128		158	
9		39		69		99		129		159	
10		40		70		100		130		160	
11		41		71		101		131		161	
12		42		72		102		132		162	
13		43		73		103		133		163	
14		44		74		104		134		164	
15		45		75		105		135		165	
16		46		76		106		136		166	
17		47		77		107		137		167	
18		48		78		108		138		168	
19		49		79		109		139		169	
20		50		80		110		140		170	
21		51		81		111		141		171	
22		52		82		112		142		172	
23		53		83		113		143		173	
24		54		84		114		144		174	
25		55		85		115		145		175	
26		56		86		116		146		176	
27		57		87		117		147		177	
28		58		88		118		148		178	
29		59		89		119		149		179	
30		60		90		120		150		180	

Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting
181		196		211		226		241	
182		197		212		227		242	
183		198		213		228		243	
184		199		214		229		244	
185		200		215		230		245	
186		201		216		231		246	
187		202		217		232		247	
188		203		218		233		248	
189		204		219		234		249	
190		205		220		235		250	
191		206		221		236			
192		207		222		237			
193		208		223		238			
194		209		224		239			
195		210		225		240			

### LED MODULE CHARACTERISTICS

	GR-938/4P/ADR	GR-939/4P/ADR	GR-938/6P/ADR	GR-939/6P/ADR
Manufacturer	Olympia Electronics S.A.			
Model Number	2111143		2211143	
Voltage Range	11.6-13.6V DC			
Nominal Power	4W		6W	
Connections	Cable connection between main pcb and led module			
Temperature (tc)	60 °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 deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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