European manufacturer

olympia electronics
SAFETY & SECURITY SYSTEMS
for a safer world!

SELF TESTING MAINTAINED EMERGENCY CEILING MOUNTED LUMINAIRES

CE

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

	GR-240/DUO/M	GR-241/DUO/M
OPERATION VOLTAGE	220-240V AC / 50-60Hz	
MAX. SUPPLY CURRENT	25mA	
MAXIMUM POWER CONSUMPTION	5.4W / 5.5 VA	
MINIMUM POWER FACTOR (λ)	0.89	
U-OUT	5V	
BATTERY (Ni-MH)	4.8V/1.2Ah (4KRMT 15/51)	
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic insulation	
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic insulation	
WORKING VOLTAGE AT WHICH THE INSULATION IS DESIGNED	500V	
BATTERY PROTECTION	Deep discharge and overcharge protection	
BATTERY VOLTAGE RANGE	4-6V	
BATTERY CHARGE CURRENT RANGE	90 - 110mA	
BATTERY DISCHARGE CURRENT RANGE	420 - 610mA	200 - 285mA
TRICKLE CHARGE CURRENT/VOLTAGE	40-45mA at 5.9V	
INDICATIONS - CONTROLS	Charge, Lamp fault, Battery fault, Test button	
CHARGE TIME	23 hours	
MINIMUM DURATION	90min	180min
LIGHT SOURCE	1 white power LED	
SOURCE LUMINOUS FLUX (Mains/Emergency)	280 / 280lm	280 / 150lm
DEGREES OF COVER PROTECTION	IP40	
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	
Prated/Irated	2W/665mA	2W/665mA / 0.85W/300mA
RELATIVE HUMIDITY	Up to 95%	
CONSTRUCTION MATERIAL	ABS/PC	
EXTERNAL DIMENSION	Ø125 x 65 mm	
WEIGHT	420gr.	
GUARANTEE	3 years (1 year for the battery)	
CONTROL GEAR WITH AUTOMATIC TEST FUNCTION	**EL-T**	
Controlgear is suitable for LED module only		
The controlgear has mains-connected windings of transformer		

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

GENERAL

This device is used indoors (ta 40°C) in places where emergency luminaires are needed. The luminaire has pre-installed the anti panic lens. The package also contains the corridor lens that can be replaced by the user. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. The LED source can be on or off, depending on user's choice. In case of a mains power supply failure, the device enters emergency mode and the illumination LED is lit from battery. When the mains power supply is restored the device turns to normal operation.

Manual Operational Test

This test can be done by pushing the test button. The light source and the emergency circuit of the device are tested. The manual test can be conducted only if the mains power supply and the battery are connected. During this test period the LAMP TEST LED will blink. The battery must have adequate charge.

Manual Capacity Test

A duration test can be conducted by pushing the button steadily for 5 to 10 seconds. In order to be performed, the mains power supply should be connected and the battery should be fully

charged. The luminaire enters emergency mode, the charge LED is turned OFF and the BATTERY FAULT LED starts blinking. Its duration is the stated autonomy duration of the luminaire. If at the end of the test the autonomy is lower than the nominal, the BATTERY FAULT LED will lit and battery needs to be replaced. If the result of the test is good then the luminaire enters charging mode and the CHARGE LED starts blinking until the battery is fully charged.

Automatic Operational Test
This test includes all the operations that are provided in manual test and is conducted automatically every 15 days and lasts 3 seconds.

Automatic Capacity Test
The Automatic Capacity Test is conducted every 6 months and measures the device's back up operation and emergency duration. This test includes all functions of the Manual Capacity Test.

ATTENTION!!!
1. Operations for installation, maintainance 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. The replacement of the battery and the light source must be done using 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 into common trash bins, they must be discarded only in battery recyclicing points. Do not incinerate.

NOTE: LED= Light Emitting Diode

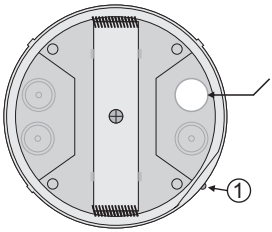
LABELING EXPLANATION:
X: Self contained
1: Maintained **(*)**
A: Including test device
F: Automatic test gear complying with IEC 61347-2-7 denoted EL-T
90: 90 minutes duration
180: 180 minutes duration

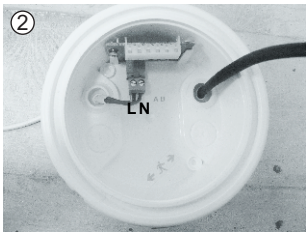
X	1	A	F	180

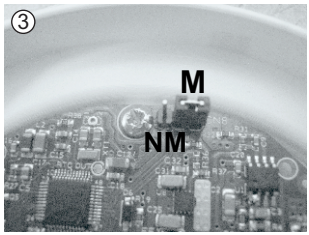
Non Maintained operation: The luminaire turns on illumination source, only in case of power supply failure.
(*) Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

Connectors:
CN1: Power supply
CN2: Non user connector
CN3: Non user connector
CN4, CN7: Led strip connectors
CN8: Maintained selection jumper

INSTALLATION INSTRUCTIONS







Initial installation

1. Untighten the screw but do not remove it and pull up the reflector.
2. **Always use in any case round mains cable, with a diameter of 5-10mm (H05RN-F type 2x1mm² or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way.** Install the included gasket in to the cable entry holes *(verify that are not deformed)*. Make a hole in the center by using a small screwdriver. Pass the round cable through the gasket. Detach the power terminal, connect the wires as shown in the picture and attach the power terminal (10A max).
3. The operation mode can be selected using the mode jumper. Depending on the position of the jumper you can select (M) maintained operation (default selection) and (NM) non maintained operation.
4. Refit the reflector (mind the correct orientation), tighten the screw securely and the luminaire is ready for mounting.
5. Connect the battery.
6. Mount the luminaire on the ceiling.

NOTE!! After finishing the installation you must power the luminaire for at least 23 hours in order to completely charge the battery. The rated autonomy duration can be achieved after that time.

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

1. Remove the luminaire from the suspended ceiling.
2. Disconnect the connector, remove the old battery from the plastic base and replace it with the same type and place it back to its base.
3. Connect the new battery.

Important notice for the installed luminaires in one area !!!
The installer must connect the battery's connector first and then should power the luminaire.
The time between batteries connection must be, at least 1.5 minute.
With this variation, it is ensured that the non synchronized Automatic Autonomous Test for two or more luminaires installed in one area, is not conducted in the same day.

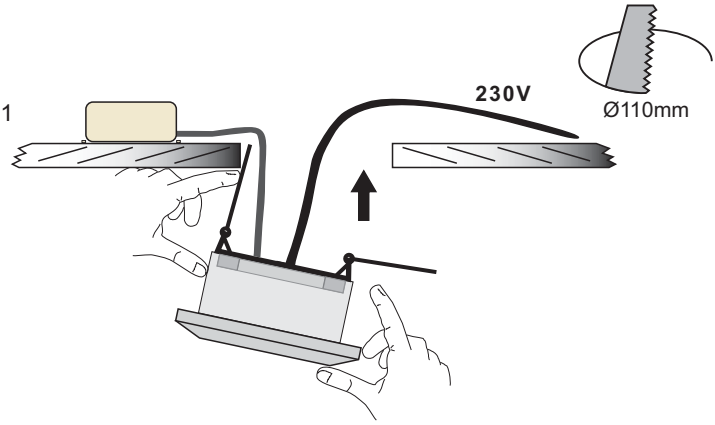
Status of LEDs

LEDs	Description of indication
CHARGE	◌: Battery charging, ●: battery charged, ○: disconnected battery or emergency mode
LAMP FAULT	◌: Operation check, ●: lamp fault, ○: normal operation
BATT. FAULT	◌: Autonomy test, ●: battery capacity fault, ○: normal operation
Note	◌: Blinking, ●: constantly on, ○: off

Mounting the lamp in suspended ceiling.
Set up the lamp to the suspended ceiling as it is shown bellow *(Required opening 110mm)*:

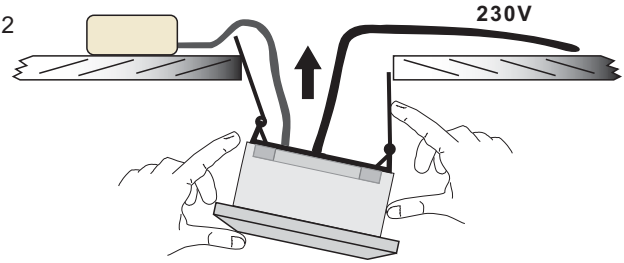
Step 1
Pass the battery pack into the ceiling then bend the springs, to get into the hole of the suspended ceiling, as you can see to the next figure.

Figure 1



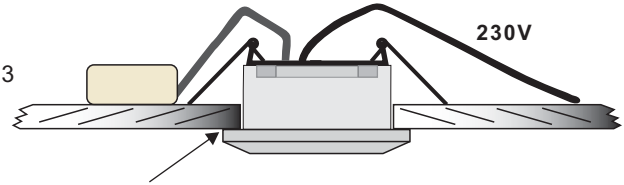
Step 2
Push up the luminaire, as shown in figure 2.

Figure 2



Step 3
Continue to push upwards until the lamp locks.

Figure 3



If you want to pull off the device, put a flat blade screwdriver, between the device and the ceiling.

NOTE: The length of the battery pack cable is 50 cm.

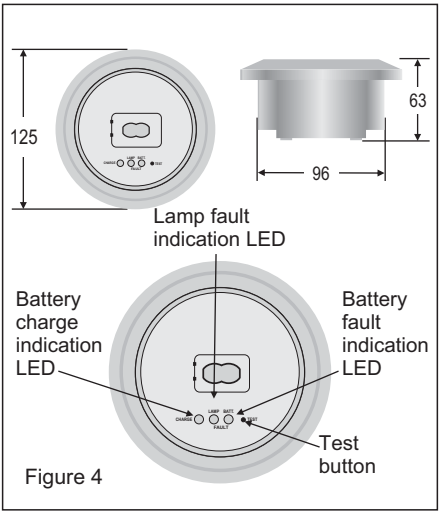
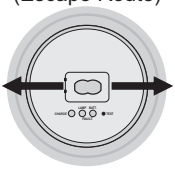


Figure 4

GR-240/DUO/M & GR-241/DUO/M
(Escape Route)

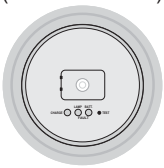
Corridor lighting



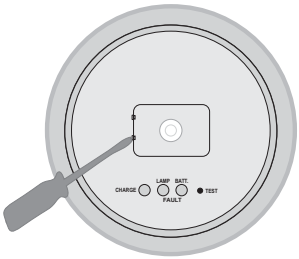
ATTENTION!!!
During installation follow this light direction.

GR-240/DUO/M & GR-241/DUO/M
(Anti-Panic Area)

Open area lighting



LENS REPLACEMENT



1. To replace the lens , first be sure that the luminaire in not connected in the mains power supply and the battery is not connected.
2. Use a flatblade screwdriver to pry open the lens retaining cover.
3. Remove the placed lens and insert the newone taking care the two alignment pins on the lens are inserted in the holes on the PCB. Be carefull not to touch the LED with your hand.

LED MODULE CHARACTERISTICS		
	GR-240/DUO/M	**GR-241/DUO/M**
Manufacturer	Olympia Electronics S.A.	
Model Number	0606185	
Voltage Range	2.7-3.3V DC	
Nominal Power	2W	
Connections	Non reversible connection between main pcb and led module	
Temperature (tc)	65 °C max. across the board	

CAUTION : Do not view directly with bare eyes

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.

HEAD OFFICE

72nd km. O.N.R. Thessaloniki-Katerini
P.C. 60300 P.O. Box 06 Eginio Pierias Greece
www.olympia-electronics.gr
info@olympia-electronics.gr