

GR-30/LED WATERPROOF SELF-TESTING NON-MAINTAINED EMERGENCY LUMINAIRE



TECHNICAL CHARACTERISTICS

OPERATION VOLTAGE	220-240V AC/50-60Hz
MAXIMUM POWER CONSUMPTION	5.5VA
BATTERIES (Ni-Cd)	4.8V/3Ah
BATTERY PROTECTION	From overcharge and full discharge
INDICATIONS - CONTROLS	Battery charging green LED, battery fault red LED, TEST button
CHARGING TIME	24h
MINIMUM AUTONOMOUS DURATION	90min
LIGHT SOURCE	2 x 3 power LED's
EMERGENCY ILLUMINATION	2 x 235lm
DEGREES OF COVER PROTECTION	IP 65
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22
OPERATION TEMPERATURE RANGE	0 to 40 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	Bayblend FR3010, transparent polycarbonate
EXTERNAL DIMENSIONS	300x97x330mm
TYPICAL WEIGHT	1870gr.
GUARANTEE	3 years (1 year for the battery)

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 the battery is charging and the green led is flashing indicating the charging condition. If the battery is fully charged, then the green led lights constantly.

In case of a mains power supply failure the green led turns off and the luminaire will light the power LED's automatically in emergency mode. When the mains power supply is restored the device turns to normal operation.

INSTALLATION

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

Battery charging

The battery charging is completely controlled. In this case, is achieved the perfect battery maintenance, 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

The manual test can be conducted only if the main power supply and the battery is connected. By pressing the test button briefly an emergency operation test is initiated. During this test period all indication LEDs are OFF. The whole emergency circuit of the luminaire is monitored.

Automatic 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.

Manual Autonomous Test

If the Test button is pressed for a period between 5 to 10 seconds (with the battery fully charged), the luminaire will enter in counting autonomy condition. *If the battery is not fully charged (the green led is flashing) this command is ignored.*

The BATTERY FAULT LED blinks during the measurement, indicating this process to the user. This measurement duration is equal with the nominal autonomous duration of the luminaire (2 hours) and at the end of the process, if the measured duration was at least the nominal autonomous duration, the BATTERY FAULT LED is turned OFF, in the other hand stays continuously ON indicating to the user that the battery must be replaced.

Automatic Autonomous Test

The Automatic autonomous Test is conducted and measures the luminaire's back up operation and emergency duration. This test is conducted automatically every six 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.

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 power LED test is also performed. emergency mode, a power LED test is also performed.

Resetting Errors

Push the Test button for >10 seconds, to delete all

the indicated LED errors. Then the luminaire enters regular operation mode.

Test switch functions

-Pressing the test button less than 5 seconds will initiate a light source test (last for 3 seconds).

-Pressing the test button between 5 to 10 seconds will initiate a manual battery duration test.

-If the test button is pressed for more than 10 seconds, the luminaire will be reset (delete all errors).

-In case of mains failure, you may turn off the head lamps, by pressing briefly the test button. If you press the test button again, the head lamps will be turned on. When the mains is restored, the luminaire turns to normal operation.

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

0: Non-maintained

A: Including test device

***90:** 1.5 hour duration

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 thru a fuse dependent by the total amount of the line's power load.

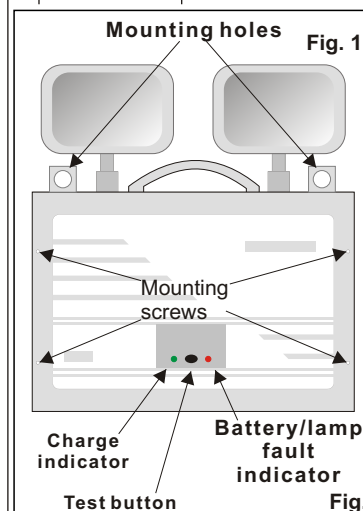
3. It is suggested to check every month the indication LED for battery charging, and by pushing the TEST button to check the emergency circuit. The power LED's should light as long as the TEST button is pressed. In the opposite condition contact the installer.

4. In case of battery replacement, this must be replaced by battery of the same type and characteristics.

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

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

Indication LEDs		Status of LEDs		Description	Led status explanation	
GREEN	RED	Led head lamps			Indication LEDs	
				Charging		Continuous ON
				Charging complete		Continuous OFF
				Battery is disconnected		Flashing
				Automatic autonomous test		Continuous OFF
				Battery fail (must be replaced)		Continuous ON
				Lamp fault (LED head lamps are open)		Continuous ON



INSTALLATION INSTRUCTIONS

1. Install the included mounting accessories and hook the device from the mounting holes (fig1).
2. Unfasten the 4 mounting screws (mind the sealing o-rings) to remove the front plastic cover.
3. Connect the battery's connector to the appropriate connector on the P.C.B (fig2).
4. Install the included cable gland. Pass thru the mains cable and stabilize it by fastening the cable gland. Connect the wires to the terminal blocks L for live wire and N for neutral (fig.3).
5. Refit with care the front plastic cover, by fastening the 4 mounting screws.

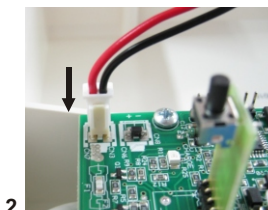


Fig. 3

