

## 1. General Description

Indoor Emergency Lighting **EXIDUS** has a double function. It can operate as:

1) Emergency Lighting, where it is activated on mains power loss (when voltage drops below acceptable limit).

2) Continuous Operation Lighting with two (2) levels of brightness:

- Brightness Level 1: Mains power is present
- Brightness Level 2: Mains power is lost

EXIDUS also provides:

- A **PRG/TEST** button (item 1), for testing and programming
- Three (3) LED indications: **FLT**=Fault (yellow LED), **PWR**=Power (reen LED) and **BAT**=Battery Fault (red LED)
- Battery isolation switch for long storage.



**NOTE! The battery isolation switch should only be used for connecting the battery upon installation. The switch must remain in the connected position as long as the product is in normal operation.**

- Up to 2.5 hours of emergency lighting duration (at maximum brightness)


## 2. PRG/TEST button operation



Figure 1. EXIDUS LED indications

If the **PRG/TEST** button is pressed for an interval:

- Less than 3 seconds, the system's diagnostic test starts.
- Between 3 and 30 seconds, the system's programming operation starts.
- More than 30 seconds, the system restores the default settings.

 **You may need to use an object with a narrow tip such as a pen or screw driver to operate the PRG/TEST button with ease.**

### 2.1 Test Procedure

1) Battery Internal Resistance Test

- The battery presence is checked.
- The battery internal resistance is checked.
- The battery degree of charge is checked.

2) LED Lights Test

- A cycle through all 5 light intensities is done

- If there is an open-circuit or a short-circuit fault with the LED operation, an error is indicated.

## 2.2 Programming procedure


The programming procedure consists of two (2) steps. The user advances to the next step by pressing the **PRG/TEST** button for more than 3 seconds. The steps are described below:

The system will automatically exit the programming mode if no user interaction takes place for more than 60 seconds.

The programming procedure consists of two (2) steps. The user advances to the next step by pressing the **PRG/TEST** button for more than 3 seconds. The steps are described below:

**STEP 1:** Brightness level with main power present (**PWR** and **FLT** LEDs blinking).

In this step the user sets the brightness level produced by EXIDUS while the mains supply power is present. By instantaneously pressing the **PRG/TEST** button the brightness cycles through the six (6) available levels (OFF to max. brightness). When the desired brightness is active, the user presses the **PRG/TEST** button for more than three (3) seconds; the brightness level is saved and the programming continuous to STEP 2.

 **If EMERGENCY ONLY operation is required the user must select Zero Brightness (Lighting element OFF).**

**STEP 2:** Brightness level during mains power loss (**PWR** and **BAT** LEDs blinking)

In this step the user sets the brightness level produced by EXIDUS while the mains supply power is lost. By instantaneously pressing the **PRG/TEST** button the brightness cycles through the five (5) available levels. When the desired brightness is active, the user presses the **PRG/TEST** button for more than three (3) seconds; the brightness level is saved and the programming is completed.

After the completion of the programming steps EXIDUS returns to normal operation.



**During the programming operation, EXIDUS does not check the mains power or execute any diagnostic tests.**

## 3. Indications Functionality

### PWR Indication (green LED)

- **OFF:** Mains voltage is low or lost.
- **ON:** Mains voltage is present.

### FLT Indication (yellow LED)

- **OFF:** Light Elements in normal mode.
- **Blinking:** Light Elements Fault.

### BAT Indication (red LED)

- **OFF:** Battery is working properly.
- **ON:** Battery Fault.
- **Blinking:** Battery has lost capacity and will need to be replaced soon.

### SYSTEM IN NORMAL OPERATION MODE

LED INDICATOR	STATE	Description
PWR (green)	ON	Mains power present
	OFF	Mains power is lost
FLT (yellow)	BLINK	Light element Fault
BAT (red)	ON	Battery Fault
	BLINK	Battery reduced capacity, needs to be replaced soon


### SYSTEM IN PROGRAMMING MODE

LED INDICATOR	STATE	Description
PWR	BLINK	System enters programming mode
FLT	BLINK	System is in STEP 1
BAT	BLINK	System is in STEP 2

#### 4. Technical Characteristics

<b>Power Supply</b>	230VAC / 50Hz
<b>Max. Power Consumption</b>	Less than 5VA
<b>Light Source</b>	12 LED
<b>Battery</b>	3.6V 1.0Ah NiCd
<b>Emergency Operation Time</b>	From 150 min to 240min depending on luminance setting
<b>Luminance setting</b>	5 steps (20, 40, 60, 80 & 100%)
<b>Viewing distance</b>	Exidus 1: 18m Exidus 2: 28m
<b>Switch over Voltage</b>	Between 150 ~ 190V
<b>IP rating</b>	IP20
<b>Isolation Category</b>	Mains connection Doubly isolated
<b>Environmental</b>	Temperature: +5 to 45 °C Humidity: 5 to 95% RH, non condensating
<b>Dimensions [WxHxD]</b>	Exidus 1: 320x215x27 mm Exidus 2: 320x220x27 mm
<b>Indication Area Dimensions [WxHxD]</b>	Exidus 1: 314x90x6 mm Exidus 2: 314x140x6 mm
<b>Guarantee</b>	3 years (1 year for the battery)

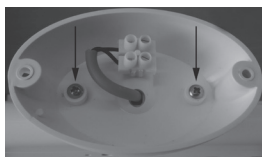
#### 5. Installation instructions

 **ATTENTION! The installation and maintenance of this unit must be performed by qualified personnel only. Mains voltages are lethal. Electrical wiring must be compliant to all safety and electrical regulations that apply.**

##### Wall/Ceiling mounting installation:

The Exidus luminary may be mounted on a vertical (wall) or a horizontal (ceiling) surface. The unit comes pre-assembled for wall mounting. If ceiling mounting is desired the following procedure is required:

1. Remove the screws shown below (Figure 2) from the inside of the oval shaped base.
2. Pull the base away, so the rest of the luminary can be rotated to the desired position (Figure 3).
3. Place the base on the ceiling surface and reassemble.
4. Connect the mains cable on the terminal block.
5. Connect the battery by placing switch (Figure 5) in the connected position.
6. Place the screws in place paying attention to not overtight them.



**Figure 2.**

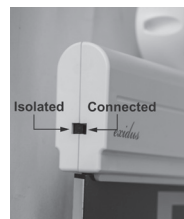
EXIDUS wall/ceiling  
mounting base



**Figure 3**



**Figure 4**



**Figure 5**

##### Battery replacement:

EXIDUS contains a replaceable battery. The unit contains electronics required for the verification of the battery's good health. Change the battery when the indication **BAT** blinks. Change the battery according to the following procedure:

1. Disconnect the 220VAC power from EXIDUS.
2. Remove the screws holding the battery cover in place, then remove the battery cover (Figure 6).
3. Remove the old battery from the battery holder.
4. Gently pull the battery cable until the battery connector is visible.
5. Disconnect the old battery from the exposed connector.
6. Connect the new battery observing the correct polarity.



Figure 6. EXIDUS battery cover

**! ATTENTION:** After installation, proper operation is established after the batteries have been charged for 24 hours.

The battery connectors employ plastic guides ensuring the correct connection of a new battery. Do not use excessive force to connect the battery as this is an indication of improper alignment. Reverse connection of the battery will cause permanent damage to the Luminary.

**! If multi stranded wire is used for the mains connection, the ends of the wire should never be tinned. If desired, wire ferrules may be fitted.**

The diameter of the wires must be between 0.8 and 3.3 mm<sup>2</sup> (12-18 AWG). Controlgear is suitable only for EXIDUS LDM.

#### Lighting Element Failure

The lighting elements of the EXIDUS unit are **NOT** user replaceable. In case of failure the unit must be either replaced or serviced by qualified personnel. This failure is indicated by the yellow blinking fault light (FLT).

**! This device contains no user replaceable parts inside.**  
\* Persisting Faults require the replacement of the unit.

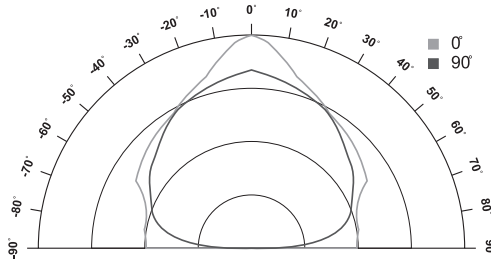


Figure 6. EXIDUS angular light distribution

#### EMERGENCY LIGHTING LABELING EXPLANATION:

- X:** Self contained
- 1:** Maintained
- A:** Including test device
- C:** Including inhibiting mode
- 150:** 2.5 hour duration

CE Certified by:



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EN60598 | EN62031 | EN62471 |  
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fire alarm & security systems  
Korinthou 3, Metamorfofi 144 51, Athens-Greece  
www.paradox.gr