

# Exidus - User Guide




## 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

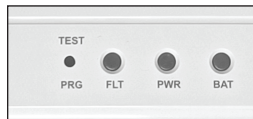
EXIDUS also provides:

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

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

BAT Indication (yellow 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 (red)	BLINK	Light element Fault
BAT (yellow)	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>	220-240VAC, 50/60Hz
<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] (no brackets)</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:

For ceiling mounting two options are provided, with the included plastic brackets (see Figure 2) or optional chains (not included).

For wall mounting the plastic bracket should be used, attached to the main body of the luminaire at the 90 degrees position (see Figure 3).

The power cable should be routed from the corresponding opening of the bracket. See Figure 3 for wall mounting.

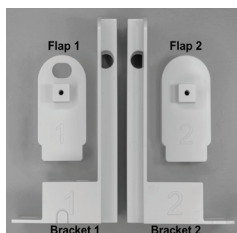
The mounting requires that the two flaps numbered 1 and 2 (see Figure 2) are placed on the right and left side of the main body and secured in place with the provided screws holding the whole assembly (including the brackets) together (see Figure 4)

The bracket numbered 1 also contains the small enclosure for the terminal block for the electrical connection to the mains power (see Figure 3).

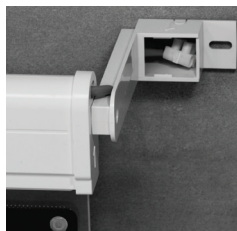
Please note that before placing the left flap (number 2) the battery must be connected by sliding the switch on the main body to the forward position (see Figure 5).

When the chain is used for suspension from the ceiling, the plastic brackets are not required. The chain is held on the outside of the two flaps with the provided screws.

The electrical connection should be done on the ceiling taking in consideration the required protection from the exposure of live mains power.



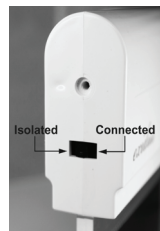
**Figure 2.**  
EXIDUS Brackets & flaps



**Figure 3.**  
EXIDUS wall mounting and terminal block



**Figure 4.**  
Flaps & brackets assembly



**Figure 5.**  
Battery connection switch

### Battery replacement:

Battery replacement is only performed by qualified personnel. The unit must be safely disconnected from the mains power and the body removed from the retaining flaps/covers. The front cover held by the two screws on the back side (see Figure 6) must be removed exposing the old battery. The battery clip must be disconnected and the new battery connected and placed as per Figure 7. Assembly of the unit is performed by placing the front cover and fastening the screws that hold it in place. Care should be taken to route the long test button through the guide on the front cover.



Figure 6. EXIDUS battery cover



Figure 7. EXIDUS battery connection

**⚠ 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 red blinking fault light (FLT).

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

### **EMERGENCY LIGHTING LABELING EXPLANATION:**

**X:** Self contained

**1:** Maintained

**A:** Including test device

**150:** 2.5 hour duration