

## SENECA SURFACE MOUNT PRO SELF-TEST EMERGENCY LUMINAIRE INSTRUCTIONS

### Issue 02 18<sup>th</sup> February 2021

**THANK YOU** for buying this product. To help ensure it gives complete satisfaction please install it according to these instructions and then pass the instructions to the appropriate person for retention and future reference.

**SAFETY.** This is a mains powered product. It is designed to be installed by suitably qualified personnel only and in accordance with the applicable building and electrical regulations. Before installation or maintenance the electrical supply to the product must be isolated.

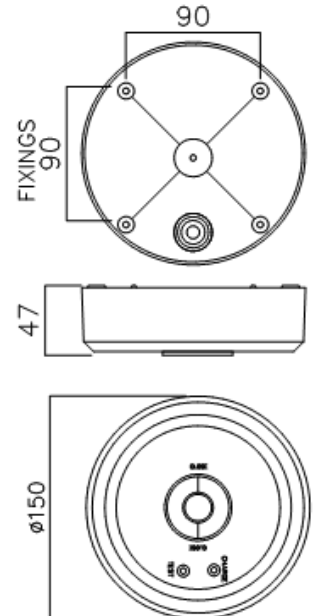
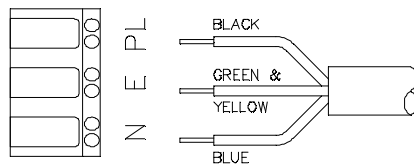


**INSTALLATION SUPPORT.** If installation advice or accessories are required please contact us at the above address. We will do our best to help. When reporting a suspected fault or seeking installation support the problem is likely to be resolved most quickly if you have full product details to-hand, as well as details of when and where it was purchased.

### LUMINAIRE INSTALLATION

Remove the front cover moulding by releasing the three clips on the side wall using a flat head screw driver.

1. Prepare the surface & mains supply cable.
2. Route the mains supply cable through the hole in the base & then screw fix the base to the mounting surface using the four fixing points provided at 90mm centres.
3. Route the mains supply cable to the terminal block & terminate as shown.



4. Connect the battery pack to the PCB by connecting the 2-pole female socket on the battery wires to the larger 2-pole male plug mounted on the PCB labeled "+ BATT -". Ensure correct orientation.
5. Enter the "Installation Date" in the appropriate place on the battery pack label.
6. Offer the front cover to the base & connect:
  - a. The 2-pole connector to the 2-pole plug on the main PCB labeled "LED-/ LED+", ensuring correct orientation.
  - b. The 3-pole connector to the 3-pole plug on the main PCB, ensuring correct orientation.
7. Refit the front cover moulding by snap fixing over the four clips & ensuring there are no wires trapped.  
 Note! There is a location peg that needs to align with a recess in the front cover moulding.
8. Reconnect the power supply & check the green LED charge indicator illuminates.

### LENS SELECTION

The luminaire comes fitted with a wide distribution lens as standard.

1. There is an option to change to the oval distribution lens (supplied) by following the below steps:
  - a. Remove the wide distribution lens by turning it anti-clockwise from the closed position to the unlocked open position (aligned with the two arrows).
  - b. Locate the oval distribution lens onto the front cover in the unlocked open position (aligned with the two arrows) and turn clockwise to lock the lens into the closed position.

### OPERATION / MAINTENANCE

1. **This unit is using Lithium Iron Phosphate cell (LiFeP04) in its battery pack. These batteries require close monitoring and protection circuitry to operate safely. This pack uses a dedicated protection built into the module unit. Ensure like for like batteries are used in any replacement maintenance.**
2. Nominal battery life is designed to be at least 4 years. They should be replaced when they no longer achieve the 3 hour full duration.
3. This luminaire **MUST** be disconnected before the circuit it is installed on is subjected to any high voltage or insulation resistance testing, otherwise irreparable damage will occur to luminaire components.
4. Ensure cleanliness of luminaires is maintained so as not to affect performance.

**SELF TEST FUNCTION**

This product comes with a built in self-test facility. Once given a permanent mains supply, the luminaire will automatically carry out a monthly functional check & an annual full duration test, in line with the testing procedures to BS 5266.

**Initial Test**

- After receiving a permanent mains power supply, the luminaire will now charge for 24 hours before carrying out a 3 hour duration test.
- During this test the LED module will illuminate & the green LED indicator will go out.

**Monthly Function Test**

- After installation the luminaire will carry out a 30 second function test. This will be selected randomly between day 15 to day 30 after installation so all self-test products do not go into test mode at the same time.
- During this test the LED module will illuminate & the green LED indicator will go out.
- This test will then be repeated every 30 days.

**Annual Duration Test**

- After 11 monthly function tests, the luminaire will carry a duration test..
- The test will last 3 hours.
- During this time the LED module will illuminate & the green LED indicator will go out.

**FAULT INDICATORS**

If during the self testing a fault is detected, these will be indicated as follows by the RED LED indicator:

- **1 flash every 3 seconds** – Fault with battery. Maybe a battery failure & requires changing, or not connected properly.
- **2 flashes every 3 seconds** – Fault with LED module.
- **3 flashes every 3 seconds** – Duration time not being met so batteries will need to be replaced.

**NOTES**

1. After completion of tests listed above the luminaire will repeat the process of 11 monthly function tests & 1 annual duration test.
2. If there was a power outage before any of the tests, the luminaire will delay the test appropriately to ensure a minimum 24 hours charge is received.
3. A fault indicator will continue until the fault is fixed.
4. A reset of the mains supply will be required to get the fault to clear after it has been fixed.

**MANUAL TESTING**

As this is a self-test product this is NOT recommended.

A manual test can still be initiated by isolating the permanent live supply (e.g. via a keyswitch) for as long as required to check function/duration BUT choosing to do this extra manual testing over and above the self-testing WILL affect lifetime of the batteries & may result in them not meeting full rated life.

This would void any warranty with NVC.

For this use we would recommend our non-Self Test version of this product.

**TESTING LOG BOOK**

Luminaire Type: ..... Luminaire Location/No.: .....

MONTH	TEST	FIRST YEAR		SECOND YEAR		THIRD YEAR		FORTH YEAR		FIFTH YEAR	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	DISCHARGE										

Installed By: ..... Installed Date: .....

Contact Details: .....