

RECESSED EMERGENCY PACK V2 SELF TEST INSTRUCTIONS

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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.

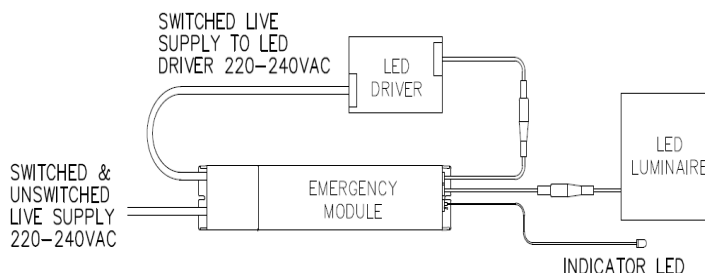


INSTALLATION SUPPORT If installation advice or accessories are required please contact us at the above address. We will do our best to help. When reporting a suspected fault or seeking installation support the problem is likely to be resolved most quickly if you have full product details to-hand, as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

INSTALLATION

The Recessed Emergency Pack has been designed to work with certain NVC luminaires. Please enquire for compatibility to product ranges.

1. Pass the switched & unswitched mains supply cable down through the chosen aperture in suspended ceiling grid.
2. On the Emergency Module, unclip the terminal cover to expose the terminal block
3. Route the "switched" & "unswitched" live supply to the terminal block, terminate ensuring correct polarity is observed
Note: There is an earth terminal provided to enable the use of twin & earth cable for earth continuity on the circuit.
4. Restrain the cable (on outer insulation) using the cable clamp provided & then clip the terminal cover back in position.
5. Disconnect the LED driver from the LED luminaire by unplugging the twist lock connector (rotate and pull apart) and re-connect to the driver connection lead on the emergency module as shown on the wiring diagram.
6. Wire the "switched" Live supply out from the emergency module to the LED driver observing correct polarity
7. Connect the LED luminaire to the LED luminaire connection lead on the emergency module by using the twist lock connectors (push fit and rotate)
8. Install the Bi-colour LED indicator next to the fitting aperture, using the bezel provided (fits to 20mm diameter hole).
9. Locate the LED Driver & Emergency Module into the ceiling void
10. Offer the chosen luminaire up to the aperture, then finish installing the luminaire as per the instructions provided with the product.
Note! – When used on LED panels locate the main driver and the M3 pack away from the edge of the panel and keep approximately 10cm gap between them.
11. Reconnect power supply & check for correct operation.
Note! Luminaires fitted with electronic components are exempt from insulation resistance tests as this will cause damage to electronic components.
12. When power supply is reconnected, check the Bi-colour LED illuminates green. This indicates the batteries are charging.



***** IMPORTANT WARNING *****

This unit is using Lithium Ion Phosphate cells (LiFePO4) in its battery pack. These batteries require close monitoring and protection circuitry to operate safely. The same 'battery' pack will be required when exchanging battery packs in the future during maintenance.

MAINTENANCE

1. Nominal battery design life is at least 4 years, after which time should be checked to ensure full duration. Replaced at suitable time with a similar equivalent battery pack.
2. When the lamp operates from the battery supply it will be at a reduced light level, so 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.

Pre-commissioning

- Product must be left to charge for 24 hours
- Upon completion of the 24 hour charge cycle a full 3 hour Discharge Test is automatically conducted (this is to commission the product). During this time the Bi-colour LED indicator will remain in the off state.
- Once the full 3 hour Discharge Test has completed the product will go into normal charge mode and the Bi-colour LED indicator will illuminate green (no faults)

Monthly Function Test

- At some point between 15-30 days the product will carryout a 30-second Function Test, the Bi-colour LED indicator will remain in the off state.
- On completion of the monthly Function Test the Bi-colour LED indicator will illuminate green (no faults)
- The Function Tests will be repeated on a monthly basis.
- The Function Tests will be carried out at randomly selected times to avoid luminaires carrying out the testing at the same time.

Annual Discharge Test

- At the end of the year a full 3-hour Discharge Test will be carried out, during the test the Bi-colour LED indicator will remain in the off state
- On completion of the yearly Discharge Test the Bi-colour LED indicator will illuminate green (no faults)

If there is a power outage the luminaire will continue with it's cycle after power is restored

FAULT INDICATORS

Notes:

- The fault indicator will continue to flash until the fault is fixed.

SELF TEST - FAULT INDICATION			
MODE	Method	Cause	LED Indication
MAINS ON	No Action	No faults	Green (on)
	No Action	Battery fault (open or short)	Red (Flashing every 1s) + bleep every 45s
	No Action	Led fault	Yellow (flashing every 1s) + bleep every 45s
MONTHLY SELF TEST MODE	No Action	Emergency ok	Green (on)
		Battery fault	Red (Flashing every 1s) + bleep every 45s
		Led fault	Yellow (flashing every 1s) + bleep every 45s
YEARLY SELF TEST MODE	No Action	Emergency > 3hr.	Green (on)
		Battery open or short, or discharge < 3hr.	Red (Flashing every 1s) + bleep every 45s
		Led fault	Yellow (flashing every 1s) + bleep every 45s
MAINS FAILURE	Goes into 3 hour emergency discharge mode of operation	Discharge>3hr	Green (on) when power restored
		Discharge<3hr	Red (Flashing every 1s) + bleep every 45s

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. This will come with a log book to record manual testing information.