# **Installation & Wiring Instructions**

ADM/1 DALI-2 Self-Test Driver



PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

# **Description:**

The ADM/1 is a standalone 3 hour DALI-2 self-test emergency driver. The LED load is driven at 700mA.

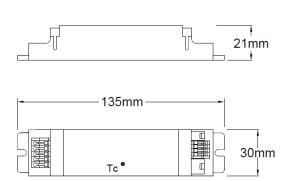
The batteries used with this kit are lithium iron phosphate (LiFePO4) which not only last double the life of traditional emergency lighting batteries, but consume far less power.

If not connected to a DALI system, this product will revert to standalone self-test and carry out its commissioning and testing regime in accordance with the British Standards.

The battery is fitted with a PCM to protect the supply voltage against reverse polarity.

## Specification:

Input Voltage	230-240 Volts AC 50/60 Hz			
Input Current & PF (standby	$(2)$ 0.3W 8mA - $\lambda$ = 0.15			
Input Current & PF (charging	) 5W 28mA - $\lambda$ = 0.74			
Insulation between supply & battery	Double Reinforced			
Duration	3-hours			
Ambient Temp.	0°C to + 50°C			
Max Case Temperature	70°C			
Max Battery Temperature	55°C			
Terminal Blocks	0.5-1.5mm <sup>2</sup> Push Wire			
Battery Fuse	Internal			
Battery Discharge Current	900mA Nominal			
Discharge Voltage Limit	2.5V			
Ingress Protection	IP20			
Battery Pack	3.2V 3.8Ah LiFePO4			
Charge Current	225mA Nominal			
Recharge Period	24-Hours			
Module Size (L x W x H)	135mm x 30mm x 21mm			
Module Fixing Centers	129mm			
Module Weight	0.10Kg			
Battery Details (mm)	Stick 90mm x 28mm x 26.5mm			
Battery Fixing Centres	80mm			
Battery Weight	0.11Kg			



## Fixing Centres 129mm

ADM/1

700mA Switchable Maintained Emergency Driver for Single LED Loads Open Circuit Voltage (U-OUT) = 4 Volts

#### **Important**

It is recommended that the module is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The conversion requires an unswitched supply for charging the battery and a switched supply if the unit is being used for maintained operation.

ISOLATE BOTH MAINS SUPPLIES AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

#### Installation

When converting a luminaire observe the following points:-

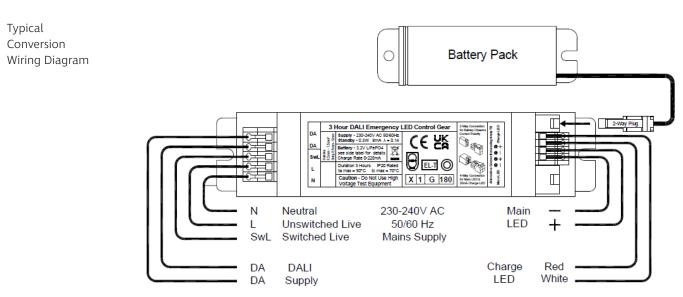
- 1. Fit the module & battery pack into the existing luminaire ensuring that they will operate within their temperature ratings.
- If the module & battery pack do not fit integrally, then a remote conversion can be used. Ensure that the interconnecting loom is kept as short as possible
- Wire the module & battery to the dedicated emergency load as per wiring diagram on Pg2.
- Ensure that the Permanent Live & Switched Live feeds are connected
- 5. Connect the cables from the DALI Panel
- 6. Arrange the wiring to avoid running the 240 Volt cables next to the modules output to the LED to obtain the best EMC results.
- Requirements for 'F' markings must be observed.
- Identify clearly the NEW Un-switched supply.
- Ensure the LED Charge Indicator is clearly visible.
- If fitted within a metal enclosure, connect earth terminal to metal gear tray for improved EMC.
- This module is not intended for use in luminaires for high-risk task area lighting
- 12. This module is protected against battery polarity reversal.

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# NB: Charge LED colours based on using Liteplan charge LED

### **Device Status Indicator:**

Green Solid		Battery connected & charging	Red Solid		Emergency LED Fault	
Green Fast Flash	0.1 sec On, 0.1 sec Off	Function Test in progress	Red Fast Flash 0.1 s	sec On, 0.1 sec Off	LED Driver Fault	
Green Slow Flash	1.0 sec On, 1.0 sec Off	Duration Test in progress	Red Slow Flash 1.0 s	sec On, 1.0 sec Off	Battery Fault	
Green Very Slow Flash	4.0 sec On, 1.0 sec Off	Automatic Duration Test Passed in last 7 days	Red / Green Alternating		Identification Mode	
			Red & Green Off		In Emergency Mode	

Luminaire Ref/Location		In Cas	In Case of difficulty, contact the Installation Engineers:-							
Full Recharge Time 24 Hours				Duration 3 Hours			Lamp Type - LED			
				ROUTINE	E TEST RECO	RD	-			
	Year 1		Yea	Year 2 Y		3	Year 4		Year 5	
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
Functional										
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Three Hour										

Tel +44 (0)1708 372223 | www.liteplan.com | customerservice@liteplan.com | RM3 OAP. UK

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