

## Lux Intelligent Emergency Light Testing System

### Lx-9400

The Advanced Lux Intelligent addressable Emergency Lighting Control System is designed provide a simple yet powerful, reliable and cost effective maintenance solution for testing your emergency lights and maintaining results data for inspection and audit purposes.

The provision for emergency lighting is a requirement for non-domestic buildings and is embodied in British and European legislation. Employers, building owners and occupiers have a legal responsibility to test and maintain their emergency systems to the standards required by the code of practice for emergency Lighting of Premises BS 5266-1 and also EN50172, Emergency Escape Lighting Systems.

It supports both maintained, non-maintained and slave luminaires in either self-contained, central battery or static inverter systems. It supports all of the Advanced Lux Intelligent range of fittings. On top of this, Lux Intelligent modules can be added to almost any luminaires to allow them to fully function on the Lux Intelligent system.

The control panel has a dynamic event log of 1000 events as well as a separate log for recording of test results. Records of all automatic (and manual) tests are generated and can be downloaded by connecting to a computer and using the appropriate Lux Intelligent Logger tool. The data is then transferred to a database on a PC for subsequent analysis listing and printing. Once the data is there, there is also the opportunity of transferring this information up to the Lux Intelligent cloud using the Lux Intelligent sync tool. Through the Lux Intelligent app it becomes very easy to share and use this information.



### Features

- Each panel can support 996 luminaires
- Advanced graphical LCD user interface
- Loop powered communications
- Dedicated RS232 port supporting various modes of access
- 5 Amp power supply and charger to EN54-4
- Fit and forget panel, using your 'My Lux Intelligent' account to manage your emergency lighting
- 32 characters for zone text and 26 for each luminaire
- Networks can contain up to 200 panels
- 400 Individual tests can be spread across up to 50 test groups
- Up to 200 Zones available across each panel
- 1000 event and diagnostic log
- 24/7 monitoring, including cloud service and mobile app

## Key Features

24/7 Monitoring	400 Individual programmable tests	Up to 50 test groups	Networkable panels
Mobile/webb App available	Fully Programmable	Up to 996 luminaires per panel	1000 Event log
200 Zones per panel	Real time clock	Fully automatic testing	Loop powered communications

	Lx-9400	Lx-9800
Display	Backlit 260 by 64 Graphical LCD	Backlit 260 by 64 Graphical LCD
Controls	Alpha-numeric keypad, navigation keys, Mute and Reset	Alpha-numeric keypad, navigation keys, Mute and Reset
Enclosure/Colour	Steel IP30/RAL 7035	Steel IP30/RAL 7035
Dimensions (H*W*D) mm	385 * 450 * 125	950 * 450 * 188
Weight	8.6Kg	
Temperature	0°C to 45°C	0°C to 45°C
Humidity	95% Max	95% Max
Cable Entries (20mm Knockouts)	18 Top, 9 Top Rear, 2 Bottom	18 Top, 9 Top Rear, 2 Bottom
Mains Supply	220-240V, +10%, -15%, 47-63 Hz AC, 1A (Max)	220-240V, +10%, -15%, 47-63 Hz AC, 1A (Max)
Battery Capacity	24V 4Ah (Min), 24V 12Ah (Max) Internal	
Charging Current	2.4A, Temperature Compensated	2.4A, Temperature Compensated (*2)
Power Supply	Seperate 24Vdc, 5A Universal Input, Switched Mode	Seperate 24Vdc, 5A Universal Input, Switched Mode (*2)
Number of Loops	1 to 4	2 to 8
Devices per Loop (Total)	249	249
Protocols	PuLsE	PuLsE
Auxiliary Supply Output <sup>1</sup>	24Vdc, 500mA	24Vdc, 500mA (*2)
Loop Current	500mA	500mA
Event Log	1000 Event & Diagnostic	1000 Event & Diagnostic
Number of Zones	200 Maximum, across 4 loops (1000 when networked)	200 Max. across 4 loops (1000 when networked)
Number of Test Groups	50	50 per panel, 100 across enclosure
Number of Scheduled Tests	400	400 per panel, 800 across enclosure
On-Board Relays	2 * 1A 30V AC/DC (Fault)	4 * 1A 30V AC/DC (Fault)
Serial Port	1 * RS232 on board for PC/Modem/Printer	2 * RS232 on board for PC/Modem/Printer
Integral Modem (Optional)	For connection to logging PC	For connection to logging PC

### Order Codes and Options

Lx-9401:	Lux Intelligent Lx-9400 panel with single loop driver fitted	Lx-9806:	Lux Intelligent Lx-9800 panel with six loop drivers fitted
Lx-9402:	Lux Intelligent Lx-9400 panel with two loop drivers fitted	Lx-9807:	Lux Intelligent Lx-9800 panel with seven loop drivers fitted
Lx-9403:	Lux Intelligent Lx-9400 panel with three loop drivers fitted	Lx-9808:	Lux Intelligent Lx-9800 panel with eight loop drivers fitted
Lx-9404:	Lux Intelligent Lx-9400 panel with four loop drivers fitted	Lxp-901:	Line driver module (Lux-Intelligent)
Lx-9805:	Lux Intelligent Lx-9800 panel with five loop drivers fitted	Lxs-9400:	Spare Lighting gear tray assembly (0 Loops)

## Lux Intelligent Protocol

To make a luminaire compatible with the Lux Intelligent system, they must have a Lux Intelligent Pulse Light Unit or PLU interfaced with them. The Pulse protocol used by Lux Intelligent brings major advantages and benefits to the control system architecture. All standard features and functions are maintained whilst offering the following enhanced operational and installation benefits by means of the PLU module installed within each emergency luminaire:



Monitors and displays an analogue reading of true light level for individual luminaires at the panel.

Systematic cross check of charger and battery voltage and charger level measured by each PLU and displayed at the panel.

Soft addressing from the control panel reduces installation times and eliminates problems with double addresses.

Configuration of luminaire operating characteristics from the panel (i.e. number of cells, type of fitting - maintained/non maintained).

Interference free, high accuracy, light level monitoring using the unique glass fibre to monitor the light at source..

The panel is modular in construction and fully expandable. A single loop driver can communicate with up to 249 addressable luminaires over a 2 core communications circuit. Each panel can control up to 4 loop drivers allowing up to 996 luminaires per panel. Further expansion is easily achieved by networking to other Lux Intelligent panels. Alternatively, a more cost effective solution is to use LAN devices to let the panel system on the installations local area network.

## Lux Intelligent Software

Lux Intelligent is supported by a raft of software tools, including:

### PC-Net-009 - Configuration Tool

PC-Net-009 is a multi-function LiTe system management package. As standard this package is made up of powerful suite of individual programs which allow a PC to connect either directly or via a number of interfaces, to a Lux Intelligent panel.

The configuration tool allows meaningful location text descriptions and appropriate test zones can be assigned to individual luminaries.

The configuration function also allows the test zone location text and any auto test scheduling to be easily defined and configured.

The Uplink/Downlink option allows the configuration to be loaded to, or downloaded from, the panel either via direct connection.

The Virtual Panel control and display function allows real time control and monitoring of any panel on the system.

### PC-Net-008 - Lx Logger Tool

PC-Net-008 logger tool is a sophisticated event-logging program for the LiTe systems. This package allows a remote PC to connect either directly or via other communication devices, to a number of individual panels and/or networked panels and, by following a pre-defined schedule, download their test results from their auto-test schedule.

The PC then stores the data for later analysis and the software can be configured to automatically print out a report in real-time.

This tool is also a stepping block to the Lux Intelligent App, which allows all downloaded information to be uploaded to the cloud making it a tremendously powerful for the maintenance and management of any emergency lighting installations.

