

## 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.

