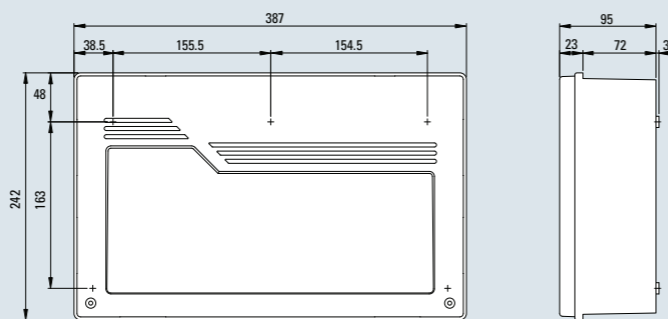


## Technical Specification

<b>Power Supply Mains</b>	230V AC. Nominal ( ± 10%). EC Standard 230V
<b>Working Voltage</b>	21.5 - 30V DC
<b>Operating Temperature</b>	0 - 40 degrees centigrade
<b>Humidity</b>	85% non-condensing
<b>Integral Charger</b>	1.5A DC
<b>Integral Battery</b>	2.6 A/H 24V dc sealed
<b>Fault Output</b>	Single pole changeover contacts (1A rated @ 24V DC)
<b>USB</b>	2.0
<b>Auxiliary Output</b>	24V DC fused at 250mA
<b>Fire Alarm Input</b>	All emergency lighting luminaires will operate in emergency mode while the contacts are shorted.
<b>Enclosure</b>	This panel is available surface mounted storm grey 00/A/13 20%

### Dimensions (mm)



## Addressable Emergency Lighting System

- Automatic Monitoring & Testing
- Addressable Emergency Luminaires
- Self Contained & Central Battery
- EL Luminaire LED Status Indicator
- Individual & Group Testing
- Optional Manual Testing
- Up to 500 Luminaires per Panel
- TCP/IP Network Interface
- Local Monitoring Over LAN
- Remote Monitoring Over Internet



Created to meet an ever increasing demand for a control system that will automatically monitor and test emergency lighting luminaires, Protec's Research and Development engineers have designed a unique emergency lighting panel of fully monitored addressable emergency lighting systems.

### Remote Access and Networking

Each panel incorporates an optional TCP/IP Network Interface. This interface allows connection to a local area network (LAN) to allow individual luminaire test results to be viewed and printed by a network PC and printer. Additionally, the luminaire test results and system functionality can be carried out remotely over the internet.

### Luminaire Location Text

The panel can be fully programmed on site using the panel control buttons including location text, test groups, time and duration of tests. Up to 40 characters of text can be allocated to each addressable emergency luminaire to identify the location of the luminaire.

### USB Port

The panel incorporates a USB port for connection of an optional PC to allow the system configuration and address location text to be easily uploaded/downloaded.



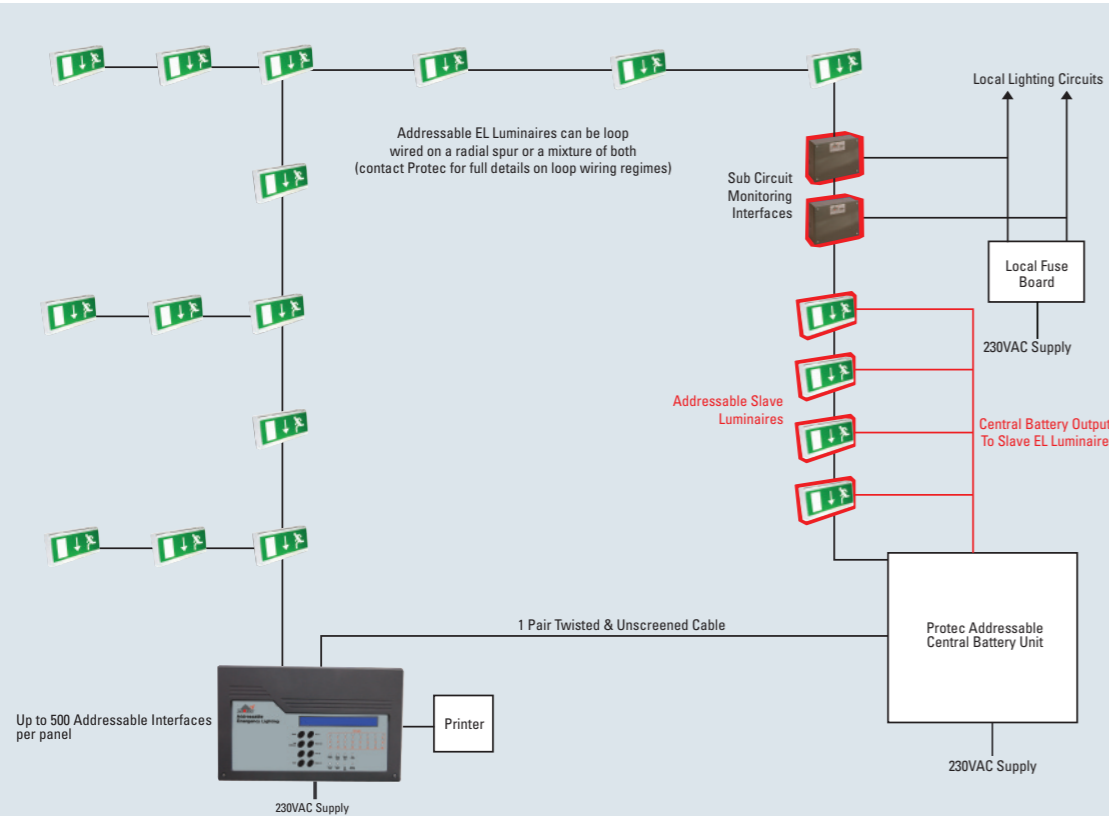
Company policy is one of continuous improvement, we reserve the right to change specification without prior notice

Protec Fire Detection Plc, Protec House, Churchill Way, Nelson Lancashire BB9 6RT

Tel: 01282 717171 Fax: 01282 717273 Web: www.protec.co.uk Email: sales@protec.co.uk

ADDRESSING SAFETY SYSTEMS WITH INTELLIGENCE

## Features



### KEY



Addressable Self Contained Emergency Luminaire



Addressable Slave Emergency Luminaire

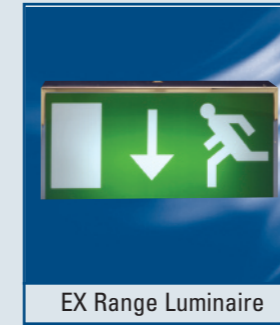


Addressable Sub Circuit Monitored Interface

## Typical Luminaires



Darwen Luminaire



EX Range Luminaire



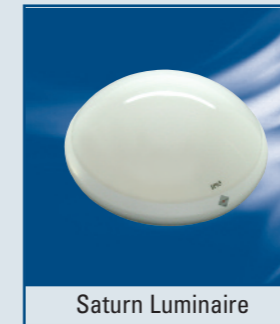
Powerflood Luminaire



Addressable Self Contained Board



Marsden Luminaire



Saturn Luminaire



Conversion Pack



Addressable Conversion Interface

### The Control Panel

- Automatic monitoring & testing to British & EC Standards.
- Each test, as described in the British Standards, is performed automatically by the panel.
- Grouping of addresses ensures the entire system is not tested simultaneously
- Each panel continuously monitors the status of up to 500 luminaires - For mains healthy, charger status and battery connection; all fault monitored by a microprocessor, the system can test each individual luminaire, manually or automatically. Programming of test groups and timing of events can be performed on sites.
- Each luminaire is identified by its own unique address number - Each luminaire is fitted with an interface along with switching and monitoring devices to enable communication with the panel.

- Self contained and slave emergency lighting - a combination of slave and self contained luminaires can be connected to each control panel.
- Local lighting circuit monitoring - for central battery systems containing non maintained slave luminaires, the lighting sub circuits can be monitored for power failure, which when detected will operate all slave luminaires.
- Automatic testing is in accordance with BS 5266 standards - available addresses are divided into maximum of 24 groups. Grouping ensures that the entire system is not tested simultaneously. Manual testing is via a user friendly keypad menu.
- Eliminates labour intensive manual testing all testing and monitoring is carried out at the control panel - no need to physically visit each luminaire.

- Integral 40 character liquid crystal display fitted to the panel. This gives a clear indication of every event, detailing the precise location of the luminaire concerned, along with the address number and test group, date and time. LED indication is provided for 'mains healthy', 'test on', 'test failed', 'fault' and 'microprocessor fault'. The 'test failed' indicator operates when a test has revealed a fault.
- Optional printer - an optional add on printer unit is available to give a hard copy printout of events.
- 2000 event memory - an internal memory log may be recalled at any time for confirmation that the testing has been carried out.
- Wide selection of Protec addressable emergency luminaires - including exit signs, power flood-lights, indoor and outdoor luminaires, fluorescent and dihydroic conversion units.

### Example Network Topology

