EasiCheck 2 is a purpose designed emergency lighting testing system, providing a simple to operate, labour saving alternative to manual testing. Avoiding the need for separate secure manual test keys and the need to manually inspect fittings during and after tests, EasiCheck 2 automatically tests the emergency lighting at a user controlled, convenient, non disruptive time, then gathers the test results and displays them in a simple to understand manner at a central control panel. EasiCheck 2 has been designed to ensure quick and simple installation, operation and system re-configuration throughout the life of the building. System extensions and changes can easily be incorporated without expensive re-programming charges.

- Reduces time and cost of testing and maintenance as required by law
- Testing in compliance with EN50172
- Intuitive touch screen interface for ease of operation
- 200 luminaire capacity per panel
- Stand alone or network up to 63 panels
- Event logs and test reports can be downloaded or printed
- Selection of central monitoring software (text or graphic)

System Operation

- An EasiCheck interface module is fitted into all suitable dedicated emergency luminaires and mains luminaires converted for emergency operation.

- Each module can be soft addressed by the EasiCheck 2 panel following installation or given a unique address number, using a hand held programmer during installation of the luminaire.

- Every luminaire is connected to a 2 core data BUS cable in a loop configuration, which is linked back to the control panel. A single panel can accommodate up to 200 luminaires (self-contained systems)

- Where radial spurs are required, MSI850 Spur isolator is required to enable soft addressing.

- Loop integrity and bus connections can be tested prior to panel installation/connection using LP800ECKIT loop tester.

- When switched on, if luminaires have not been pre-addressed the panel can be programmed to soft address luminaires and will automatically assign an address number to each luminaire connected to it. It is important to maintain accurate 'as fitted' drawings to identify the respective luminaire and its assigned address.

- Text information can be allocated to each system component, during commissioning by an Eaton service engineer.

- The panel can then be programmed to carry out automatic test sequences according to BS 5266/EN 50172 or any regional testing regime. Testing can also be initiated manually. All test data is sent back and stored at the control panel. Additionally, the system carries out continuous real time monitoring of all connected devices.

- In the event of a fault, the precise location of the device is displayed at the control panel along with accurate details of the nature of the fault, time/date stamp and an alarm is raised.

- Luminaire status is provided locally via an LED indicator built into each fitting (self contained versions).

- The system can be enhanced by networking up to 63 panels through central PC monitoring. An advanced colour graphics software package is available to provide central and remote system control and monitoring.

EC2001: EasiCheck 2 Panel

The main element of the user EC2001 is a large (120mm x 90mm visible area) touch screen display, which provides comprehensive user information and also acts as a multifunctional keypad.
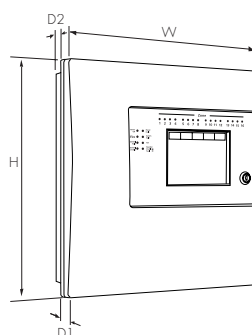
The EC2001 touch screen display automatically reconfigures to suit the selected function, for example, if the change device text menu option is selected, the touch screen is automatically formatted as a full QWERTY keyboard to enable fast and simple text entry.

The use of the touch screen display enables a wide range of user and engineering facilities to be incorporated into the panel whilst still offering simple operation. As well as a large format LCD display providing full system status information, the panel incorporates 16 group indication LEDs to provide clear information about the status of testing groups. In addition there are a number of system status LEDs (power on, emergency mode, general fault, system fault, comms fault, luminaire fault, test in progress, disable luminaire, fault indication) designed to give clear status information to non technical users.
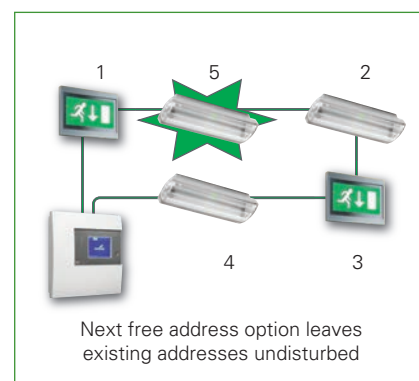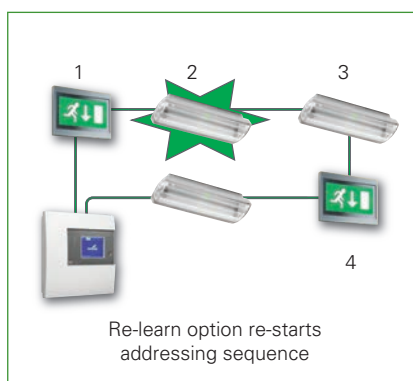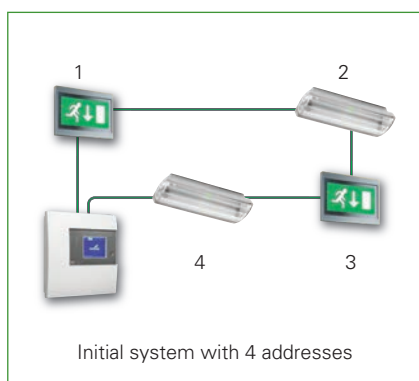
Panel is used to facilitate following functions:

- Set up test types and times
- Set up testing groups
- Initiate manual tests
- Display real time current/voltage of single luminaire
- View fault log/panel configuration
- Download/Upload fault log and panel configuration
- Soft addressing of luminaires for ease of installation and commissioning

Dimensions

H (mm)	W (mm)	D1 (mm)	D2 (mm)
375	357	45	50

Initial system with 4 addresses

Re-learn option re-starts addressing sequence

Next free address option leaves existing addresses undisturbed

CE ⏚ IP20

ECS110: Luminaire Interface

Compact module fitted into all emergency luminaires to be connected to the system. Self-contained and slave luminaire versions. Requires allocation of address either by soft addressing following panel installation and power up or by hand held programmer, prior to being connected to data BUS cable.
Dimensions: 61mm(L) x 35mm(W) x 18mm(D)

CF800ECPROG: Hand Held Programmer

Used as an alternative to soft addressing to program address number into interface devices prior to installation. The programmer is connected to each interface in turn and the program button pressed until the display confirms successful programming. The address number can be manually allocated, if required, using "Tens" and "Units" buttons. Can also be used to read back the address of a programmed interface.
Dimensions: 110mm(L) x 220mm(W) x 45mm(D).

MSI850: Spur Isolator

Spur isolator is used to connect radial circuits on the EasiCheck 2 data loop. One spur isolator must be used for every radial spur emanating from the data loop.

EC400: LON–IP Router

Used to convert EasiCheck data-bus protocol to IP for transmission of EasiCheck Network data via LAN/Ethernet. LON-IP Router is located adjacent to EasiCheck panels reducing the need to run network data cables between networked panels/remote monitoring PC.

USBINT2: RS232 to USB adaptor

Used to convert RS232 communication to USB for direct connection to a standard pc not fitted with RS232 serial port. It is recommended to use USBINT2 with EasiCheck 2 system third party RS232 to USB adaptors are not guaranteed to work with the EasiCheck 2 devices.
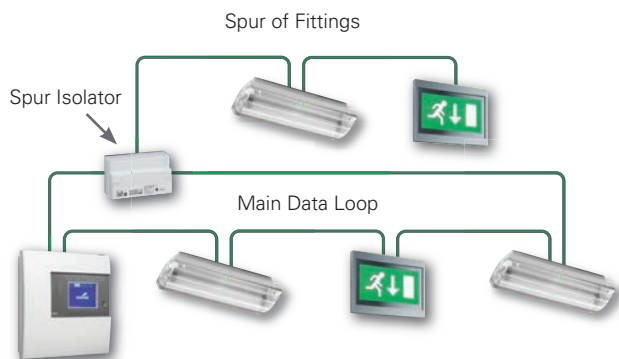
Test Programmes

EasiCheck 2 provides automatic testing that conforms and exceeds the current British Standard BS 5266 Part 8 (2008) and the European Standard EN 50172. Other test regimes can also be programmed as required.

It is recommended that discharge tests are performed at a time of least risk, such as outside normal working hours, so that following the test the batteries can be re-charged prior to re-occupation. This can be difficult in permanently occupied premises. To overcome this, EasiCheck 2 luminaires can be allocated into 1 of up to 16 test groups and the testing of each group staggered. Adjacent luminaires would be allocated to different groups in order to provide full duration emergency lighting coverage at all times. Following a genuine mains failure that has occurred in the previous 24 hours, the next scheduled test is automatically delayed for a further 24 hours, to allow sufficient time for the batteries to recharge.

Enhanced Options

EasiCheck 2 can be used as a stand alone system or can be networked, with up to 63 panels being linked. The management of larger installations with multiple panels can be simplified by interfacing the system with a PC based monitoring or graphical control system. Eaton offer two software systems for use with EasiCheck 2.

- **Site Monitoring Software**
- Simple windows based, text driven package
- Monitors the status of all panels and luminaires
- All system events and tests are listed as they happen
- Identifies the address, panel/luminaire and location where a fault has occurred
- Tests can be started or stopped
- Panels can be reset following clearing of faults
- Alarm buzzer can be muted
- Comprehensive report menu

- **Colour Graphics**
- Advanced windows based, graphics package
- Monitors the status of all panels and luminaires
- All system events and tests are listed as they happen
- Identifies the address, panel/luminaire and location where a fault has occurred
- Luminaire/device status is clearly identified and location is shown on building map
- Offers full PC control of panel functionality
- Status, testing and faults can be displayed graphically on site plans
- Reports can be easily created and printed
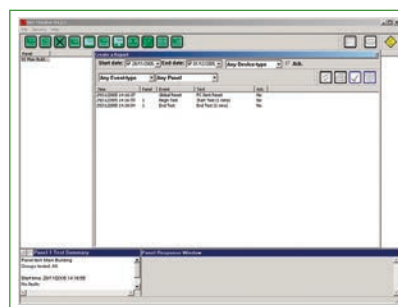
Example of site monitoring software
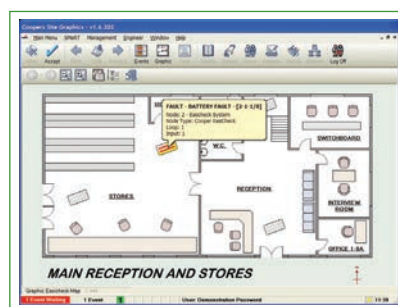
Example of colour graphic software
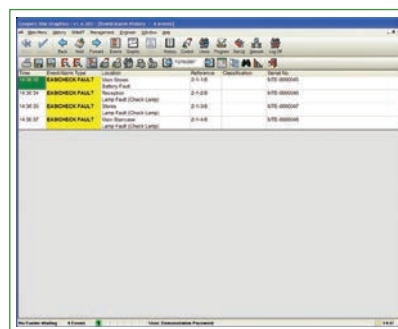
Example of colour graphic software

Catalogue Numbers

Cat No	Description
EC2001	Self Contained Panel
EC2001/NC	Network Self Contained Panel
MSI850	Spur Isolator
CF800ECPROG	EasiCheck 2 Programmer
USBINT2	USB to RS232 Adaptor Interface
GRAPHSITEMON	Site monitor software and PC connection hardware (EC300)
EC400	LON/IP Echelon Router
CFSFL01	Fibre Optic Router
EC460	Network Booster
EC170EC2	EasiCheck 2 Printer

CE ⏚ **IP20**