

FAILSAFE

System Commissioning

Commissioning / Operation:

Please contact Ex-Or Contracts Department to arrange for commissioning of the control panel or PC system and luminaires. Prior to the commissioning visit the end user or contractor will be asked to complete the fitting address and location sheet which details the fitting number and location of all the fittings attached to the system. This data will then be used by the commissioning engineer to enter the site specific details into the control panel or PC software and test the system for correct operation.

IT IS THE CONTRACTORS RESPONSIBILITY TO NUMBER ALL THE EMERGENCY INVERTORS AND RECORD ON A DRAWING PRIOR TO THE ARRIVAL OF THE COMMISSIONING ENGINEER.

Work carried out at System Commissioning:

Commissioning of the failsafe system should only be carried out by an engineer from Ex-Or ED&S Ltd. Various items need to be set-up correctly to ensure that the system performs and therefore commissioning should only be attempted by fully trained Ex-Or personnel.

The commissioning work includes:

- Installation of the Failsafe suite of programs onto the user provided computer equipment (PC version), or set-up of (control panel option). All to be carried out under the supervision of the PC owner.
- Final connection of the PC Interface unit and communication wiring. As per interface installation instructions, this should have been installed and wired to local fused spur.
- Check all emergency fittings can be found on the system (If not found it is the contractors responsibility to find the units or double numbers)
- A full status and functional test of all luminaires
- Diagnosis of all faults and missing luminaires – Wiring and installation faults must be rectified by the installer before further work can be carried out.
- A site demonstration of the commissioned system will be carried out when the full functional test time is allocated. If this does not fall within the time of the original commissioning an extra charge will be applied
- A completed Commissioning certificate will be provided detailing:
 - Site Details
 - System details
 - Warranty dates

Note: Certificate does not include any checking of scheme design, location of luminaires or lighting levels.

Fault Finding Information:

Missing / Communication Error

Fitting not responding back to the computer / interface

- Check wiring for short circuits or open circuits
- Check address number being interrogated is correct
- If intermittent missing, suspect double address (see note below)
- Ensure that the interface is plugged in correctly
- Ensure that the software is configured correctly
- Ensure that the communication cable is connected correctly to the interface and the correct polarity throughout the system has been maintained

Emergency Lamp Faulty

The lamp fails to light during functional or duration test or the current being drawn from the inverter by the lamp is out of specification

- Check lamp is fitted correctly into the lamp holder, especially on 8w fittings check the lamp is twisted into the lamp holder fully
- Check lamp wiring connections, ensure that any 'hot' wires have been converted correctly
- Check the lamp for signs of damage or blackening
- Check the correct lamp is being used with the correct module, check for signs of lamp 'pinking'
- Ensure that the lamp has fully struck, some T5 lamps need charge in the battery to strike the lamps from cold otherwise a Lamp fault may be reported

Battery Capacity Low

The emergency operation fails to run for the specified test duration

- Check battery connections
- Check battery condition, is battery pack nearing end of life (normally 4 years +)
- Ensure that the fitting has been charged for the correct duration prior to test
- Ensure that the correct duration test has been used for the relevant fitting (3 hours)
- Ensure that the correct conversion module is being used with the correct lamp, using too few cells on higher lamp wattages will cause excessive current drain from the battery resulting in short duration

Battery Not Charging

The batteries are not charging correctly

- Check un-switched mains supply is present
- Check battery connections and check that the battery is connected
- Check any battery protection fuses are intact
- Ensure that the fitting is not in test
- Check that the battery is connected the correct way around

Battery Voltage Low

The battery voltage is low

- Check battery voltage, normally around 1.2V / cell
- Check battery connections
- Check that the correct number of cells are being used with the relevant fitting

- Check for signs / damage to the cell casing, not unknown for swarf from installation to be trapped between the battery and metalwork and short circuit part of the battery pack

Interface Not Responding

The interface unit is not communicating with the PC where applicable

- Check supply to the interface
- Check interface status LED's
- Check the RS232 cable between the PC and interface

Double Addressing

Two or more fittings are numbered with the same address

- Disconnect the fittings concerned and reconnect and renumber one at a time

EX-OR EMERGENCY LIGHTING
TERMS & CONDITIONS OF COMMISSIONING

Contractors Company Name.....

Contractors Address

.....

Tel No Fax No

Contact Name

Contact Email

Mobile No

Site Address

.....

Site Contact Name Site Tel No

PURCHASE ORDER NUMBER ISSUED TO EX-OR.....

		YES	NO
1	Is Failsafe system to be connected to a PC		
2	If "Yes" is the PC on site and is there a spare serial communications port		
3	Will our Engineer have free & Unlimited access to PC		
4	Is Failsafe system to be connected to Control Panel		
5	Are All Mains and Data Cables Terminated into Fittings		
6	Have all Fittings been on charge for minimum 24 hours		
7	Have all cables been tested to IEE regulations		
8	Are drawings Available "set of as fitted"		
9	Have all fittings been addressed by contractor and shown on a drawing and given to Ex-Or		
10	Are wiring routes shown on drawings		
11	Have all fittings been checked for mains and emergency operation		
12	Have all LEDs been checked, charge LED lit and fault LED not flashing		
13	Is access available to all areas and is a site induction required. If induction required what time will this be.		
14	Is access available to any High areas NOTE: Access equipment must be supplied free issue to our Engineer for heights above 2m and any scaffolding must be erected by the contractor		

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- 15 Have "Text" details been issued to Ex-Or

NOTE: Text details must be forwarded with this document at least 10 days prior to commissioning
- 16 Electrician to be on site and in attendance at ALL times
- 17 A minimum of 2 working days **written or faxed** notice is required from the customer to cancel appointments. If no notice is received and the engineer arrives on site the customer will be charged at a minimum of 1day (*rate applicable at the time*).
- 18 If the system offered for commission is not ready or available at the time our engineer arrives on site a waiting time of 1hr from arrival will be allowed before the Engineer leaves site and condition 17 will apply.
- 19 All criteria of the above conditions should be strictly adhered to when booking a commission; otherwise an aborted visit will result in condition 17 being applied.
- 20 If the equipment is not installed or ready for commissioning and a return visit is required, this could take up to 2 weeks to re-schedule subject to program of works.
- 21 This document: **MUST BE SIGNED & RETURNED OR FAXED AS ACCEPTANCE OF OUR TERMS & CONDITIONS, THE COMMISSIONING VISIT WILL NOT BE BOOKED AND PROGRAMMED UNTIL THIS FORM IS SIGNED AND RETURNED**

YES	NO

Company Name

Customer Signature

Date

Please return this form to: Ex-Or Contracts Department

Fax Number 01942 272 767

Email contracts.ex-or@honeywell.com

PREFERRED DATE(S) FOR COMMISSIONING