

# LC-6 Lighting Remote Control Unit

## Installation



## GENERAL DESCRIPTION

The LC-6 Remote Control Unit is designed to provide a simple solution to the control and management of any lighting scheme.

The unit is supplied with a single one button key fob and 2, 3 or 4 button key fobs are available which provide the option of controlling upto 4 lighting zones by installing multiple LC-6 units.

The smart controller switches lights on and off or selects a variable 1-30 minute lighting on period at a touch of the key fob button or wall switch.

Key fobs have a typical range of 40-60 metres using approved super heterodyne rolling code interference free transmissions operating at 433.92 Mhz.

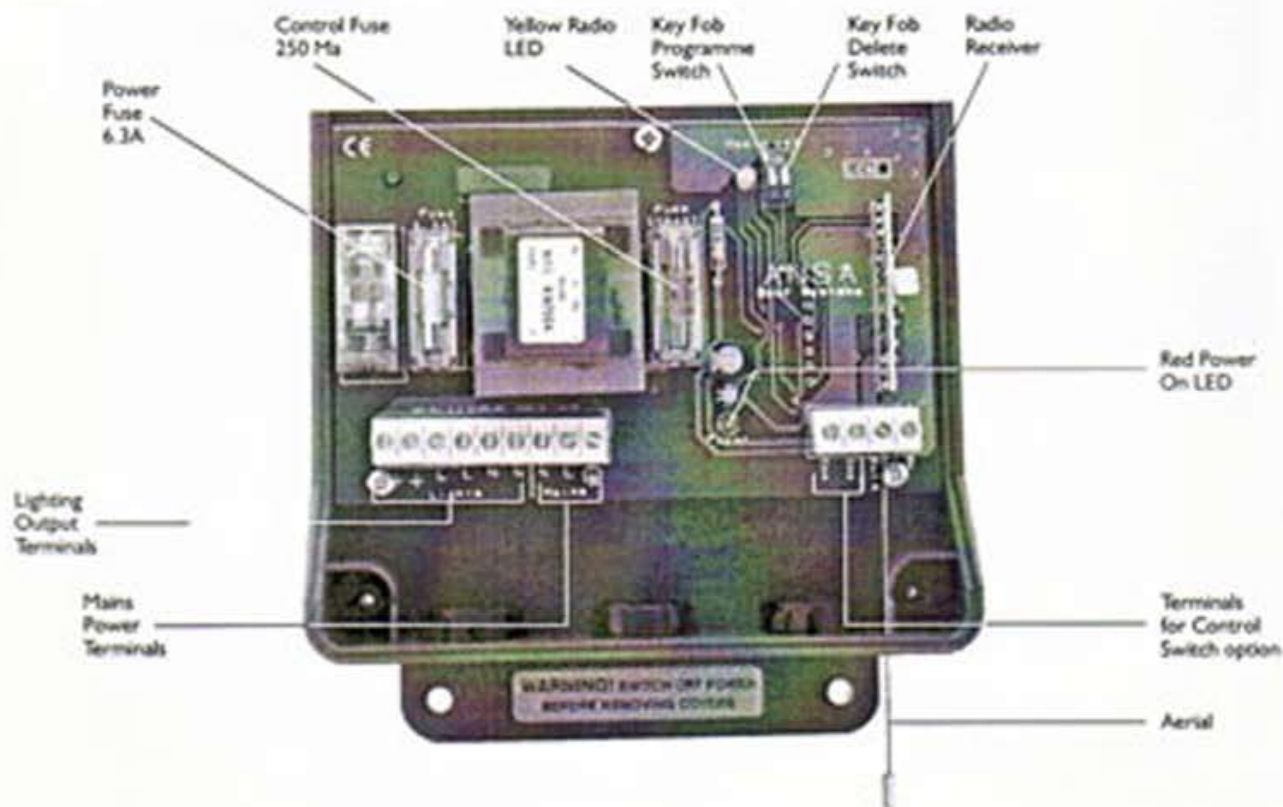
The Keeloq rolling code system prevents any chance of unauthorised operation or accidental operation by anyone else with a similar system in the vicinity.

## INSTALLATION

The unit should only be installed by a competent electrician. The unit should be installed in a dry room only (IP44 Rating). To remove the cover, pull off the trim, and undo the two fixing screws approximately 10mm - noting that it is not necessary to completely remove the screws. Fix the Control Unit in a suitable location using the wall plugs and screws provided.

**Note: Do not allow dust to enter the unit which could damage the electronics**

## CONTROL BOARD OVERVIEW



## ELECTRICAL CONNECTIONS

Always switch off the mains power supply before making any connections!. Electrical connections should be carried out by a competent person. If in doubt consult a qualified electrician! Cables should enter the control unit through the cable glands fitted to the bottom of the LC-6 unit.

## POWER

The 240v A/C power supply should be connected from a suitable fused spur box or circuit breaker. Connect to terminals marked - MAINS, L, N & ⊕.

## LIGHTING

Lighting Appliances should be connected to the terminals marked LIGHTS, ⊕, L, N. Two sets of terminals are provided for connection of a maximum lighting load of 1500watts. (Using the standard 6.3amp printed circuit board power fuse).

## CONTROL SWITCH OPTION

A momentary press (spring return) type control switch device can be connected to the terminals marked - COM & IMP. This will provide the same control function as the Key Fobs. (Normally open, volt free contacts are required).

## AERIAL INSTALLATION

Pass the 135mm stainless steel wire aerial through the small hole in the base of the LC-6 control unit alongside the right hand cable entry and connect to the terminal marked "EXT A". **Note: For correct radio operation, the aerial must be fitted.**

## OPERATION

Using a correctly coded Key Fob button or optional Control Switch:-

- |                                      |  |
|--------------------------------------|--|
| Momentary press                      | - Turns lights on for one minute               |
| Press for 1-30 seconds               | - Turns lights on for 1-30 minutes selectively |
| Two short presses (within 2 seconds) | - Turns lights on continuously                 |
| Momentary press                      | - To switch off lights at any time             |

## PROGRAMMING KEY FOBS

Key Fobs supplied with each LC-6 Unit are pre-programmed.

### To Add Additional Key Fobs

Switch off the power supply. Turn on DIP switch number two, and switch the power supply back on. The yellow Radio LED will light up for half a second to indicate programming mode.

Take a new Key Fob to be added and press the button once. The yellow Radio LED should flash once. Repeat this for every new Key Fob to be added to the system. After the last transmitter has been added - switch off DIP switch number two.

The system will accept upto 15 Key Fobs.

## DELETING KEY FOBS

It is not possible to selectively delete transmitters and selecting delete mode will erase all Key Fobs from the system. Switch off the power supply to the unit and remove the front cover. Turn on DIP switch number 1, and re-power the unit. The circuit board mounted yellow Radio LED will illuminate for 4 seconds, all transmitters are now deleted. Switch off the power supply, turn off DIP switch number 1. Key Fobs can now be reloaded using the "Programming Key Fobs" procedure above.

## FAULT FINDING

The unit fails to operate:

Check that the Red Power LED is on. If not, switch off the power supply and check all fuses. Replace a fuse if necessary, spares PCB fuses are fitted to the front cover.

Remote Control problems:

The aerial supplied must be fitted as shown.

If a Key Fob fails to operate, check the programming and the yellow Radio LED will illuminate each time a correct Key Fob transmission is made.

The red LED on the Key Fob should illuminate when the button is pressed, if it does not - replace the battery.

If the red LED is dim, the battery is low and the operating range will be reduced.

## TECHNICAL SPECIFICATIONS

Supply Voltage	220-240 VAC	Control Switch option	24VDC
Transformer Power	3 VA	Control Logic	Eeprom microprocessor
Relay	13 A - @ 230 VAC	Frequency	433.92 Mhz Super Hetradyne
Operating Temperature	-15 to +55 deg.C	Security-Rolling Code	Keeloq
Enclosure Rating	IP 44	Dimensions	200mm H x 130mm W x 70mm D
Maximum Load	1500 watts		