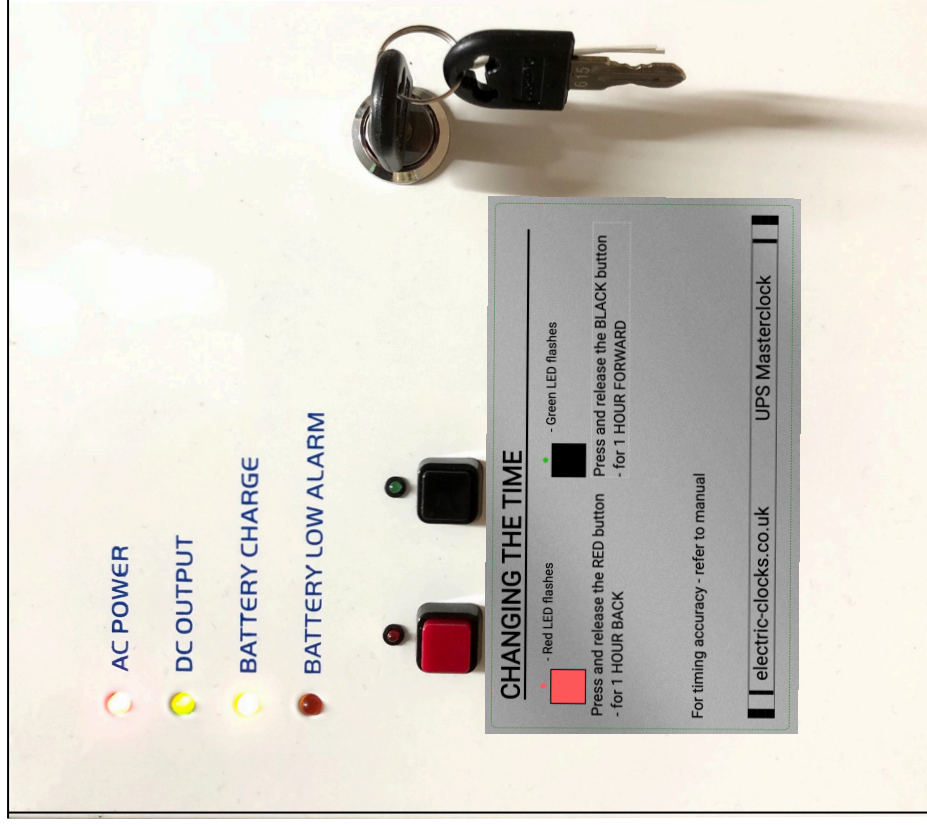


EC4 Master Clock

Operation Guide

Power System Lights

- AC POWER
Indicates the mains is on
- DC OUTPUT
Indicates the system is providing power to the clocks
- BATTERY CHARGE
Flashes when the battery is charging
Steady all other times
- BATTERY LOW ALARM
indicates when the battery is low



The only changes required with this system are the Daylight saving time changes in Spring and Autumn.

Changing the time and Daylight Saving Time changes

To ADVANCE the clock press the **BLACK** 'Advance' button

This function is 'latching' i.e. the first press will latch it on and the second press will turn it off. While it is in the 'Advance' mode the Green LED will blink once per second and the unit will output pulses.

If the unit is left in the 'Advance' mode it will pulse exactly the correct amount of pulses to advance the clock 1 hour, then revert to normal operation.

This can be used to fast forward the time when the clocks 'go forward' in the Spring.

Advancing the clock is best made a couple of seconds after the clock has impulsed at 0 seconds.

To STOP the output of pulses press the **RED** 'Hold' button

This function is 'latching' i.e. the first press will latch it on and the second press will turn it off. While it is in the 'Hold' mode the Red LED will blink once per second and the clock will not pulse

If the unit is left in the 'Hold' mode it will NOT pulse for exactly 1 hour and then revert back to normal operation after 1 hour.

This can be used to set the clock back one hour when the clocks 'go back' in the Autumn.

Error

If both Black and Red buttons are pressed both LEDs will flash and the driver will go into error mode. Press both to get back to normal operation. The driver may need powering off to reset properly.

Accuracy

Resetting timebase for a running system

The accuracy of the Masterclock system is affected by extremes of temperature and so it may be necessary to adjust the timing occasionally.

The timebase can be reset by pressing the 'red' switch to turn off, and then release to start the timing at '0' seconds using a known accurate clock. The driver will now pulse at 0 seconds and is reset to the accurate time source.

Master Clock Switch

Push Toggle switch **UP** to turn off connection to clocks.

Push toggle switch **DOWN** to connect clocks and allow them to run.

