

## CLOCK CONTROLLER INSTALLATION

1. Position unit in dry area which is accessible for operation and maintenance
2. Remove lid and clear cover marked 240v ac
3. **Do not** connect battery at this stage
4. Ensure miniature slider switch (top right of battery) is in **OFF** position
5. Connect mains feed to input (top right hand corner of board)
6. Connect clock to output (top right hand corner of board)
7. Switch on mains supply and immediately plug in the battery lead

The green mains healthy light (bottom of board) will illuminate immediately.

After 5 seconds the lights under the red and green buttons will be illuminated , while the light under the yellow button will be flashing. This shows the clock controller system is now functioning correctly.

The clock(s) will not start running because the miniature slider switch is in the **OFF** position

The switch should be left in the **OFF** position until testing is completed and clock(s) is required to run.

## CLOCK CONTROLLER TESTING

### Mains Fail

1. To simulate mains fail switch off the mains supply – the green mains healthy light (bottom of board) will go out – then after 5 seconds the red mains fail (top left hand corner of board) will start to flash
2. Switch mains on and the green mains healthy light (bottom of board) will illuminate and the red mains fail will continue to flash
3. Now cancel this mains fail simulation by pressing down the red reset button for 5 seconds
4. GMT to BST (clocks on 1 hour) This is achieved by stopping the clock for 11 hours. To simulate this press and hold in for 5 seconds the blue button. The red light below this button will start to flash, the green status light (under red button) will continue to flash. This operation would normally stop the clock for 11 hours. Now cancel this function by pressing down the red reset button for 5 seconds.
5. BST to GMT (clocks back 1 hour) This is achieved by stopping the clock movements for 1 hour. To simulate this press and hold in for 5 seconds the yellow button. The red light below this button will start to flash, the green status light will continue to flash. This operation would normally stop the clock for 1 hour. Now cancel this function by pressing down the red reset button for 5 seconds.
6. 12 Hour Stop. This stops the clock for 12 hours. To simulate this press and hold in for 5 seconds the green button. The red light below this button will start to flash, the green status light will continue to flash. Now cancel this function by pressing down the red reset button for 5 seconds.

N.B. In the unlikely event of a mains failure within a 1, 11 or 12 hour interruption the controller will not be disrupted and will attempt to restart as programmed, however if the mains is still off when the selected time has elapsed the controller will then go into mains fail mode for 12 hours. Assuming that the mains has been restored during this period the clock will start at the correct time, if the mains has not been restored it will retry 12 hours later, this will continue until the batteries are exhausted.

### To start the clocks

Switch miniature slider switch (top right of battery) to **ON** position, the lamp on top right hand side of board will come on

Note at this point the clock hands must be showing the correct time

The clock controller and clock(s) are now fully functioning