Quick-Start Manual for the TAPCO Time Clock

Welcome to the latest innovation in the world of lighting control. The TAPCO Time Clock represents the newest product in your lighting control arsenal. Used in conjunction with the programmable solar LED power supply, a level of control previously unavailable is now at hand. This manual provides a quick start approach to the operation of the Time Clock and its programming software.

1.1-General Information
The Time Clock requires at least 5 Volts DC for proper operation. A standard 4- cell battery pack is sufficient for proper operation. The Time Clock contains a backup battery to maintain time of day and calendar information should primary battery power be lost. Calendar and Day Control information is stored in non-volatile memory. If the unit is unplugged and the backup battery is replaced, only the current time and date need be reloaded.

The Time Clock can be used to switch a load of up to 1 Amp and can control lighting relays by itself. It is, however, designed for use in conjunction with the Solar LED Power Supply. Please refer to connection diagrams for typical installations.

2.1-Getting Started
Apply power to the Time Clock- connect the battery to the controller- and connect it to a computer (which has the TAPCO control circuit programming software installed) using the appropriate adapter. Open the *TAPCO Configuration* program and click on the *Time Clock Configuration* application *(figure 1.1)*. The Time Clock program window will pop up *(figure 2.1)*. The window opens up with a default, 'blank', setting. There are many behavioral patterns in which to program the Time Clock application. There are 8 "day type" settings to program the Time Clock, one of which includes the "off" setting. One may set the Time Clock to flash in certain preset ways throughout the month(s) or year(s). Example: one could program the control circuit to initiate the Time Clock to activate at different times per each of the seven days of the week. This model is far superior when compared to the previous model.

5.1-The Calendar Section
The current calendar's month and year is displayed just as a normal calendar would appear.

6.1-Day Type Section
There are eight day types to choose from. The active day type is highlighted and marked underneath the calendar. Clicking on any day type button selects that day type and displays the event information for that day type in the lower half of the window.

6.2-Day Type Event Information
Each day type contains 16 events. Each event has a start and end time, during which the output will be active/enabled for the 24 hours of that day.

7.1-Custom Programming of a Day Type
The day type that can be programmed into a calendar day is customizable for 16 different event times. In order to do this one would select the default day type to be customized; look down to the section that shows all 16 events for that particular day type; then select and program the event times accordingly.

7.3-Start/End Date
Each "calendar file" can run between one start/end date up to two exact years from the start date.

9.1-Menu Options:
1. **File:**
    a. **New –** Create a new calendar
    b. **Load –** Load a previously saved calendar
    c. **Save –** Save the current calendar
    d. **Save As –** Save the current calendar under a different file name
    e. **Print –** Prints the calendar schedule for hardcopy purposes
        i. Prints all months between the current date all the way through to two years from the current date.
    f. **Exit –** Exit/close the program
2. **Calendar:**
    a. **Set Start Day –** Sets the date for the Time Clock to begin the programmed activation
    b. **Set End Day –** Sets the date for the Time Clock to end the programmed activation
    c. **DST Setting:**
        i. **Start DST –** Start day & month for **D**aylight **S**avings **T**ime
        ii. **End DST –** End day & month for **D**aylight **S**avings **T**ime
        iii. Choose the "Day": 1st, 2nd, 3rd, or 4th weekday; Sunday- Saturday
        iv. Choose the "Month": January - December