12/24V DC Digital Programmable Timer

Features:

- Can switch a 12 or 24 volt DC light or appliance **ON** and **OFF** up to 28 times per day, and up to 15 variable weekly cycles.
- Can switch up to 10 amps of current. Note: please incorporate a 'catch diode' (supplied) across load terminals **as per photo below**. Correct direction of the diode is critical; it helps protect the internal electronics from some types of load surges.
- Timer has 24 hour internal clock and activation settings.
- The 28 available program slots have an '**ON'** time and an '**OFF'** time associated with them e.g. 1 on, 1 off, 2 on, 2 off etc. Either ONE or many of these programmable times can be utilised.
- Timer has an internal lithium battery, which enables pre-programmed settings to be saved, if supply power is ever removed from the timer.
- The day or days of the week that a certain switching program operates, can be selected either individually or in certain groupings. There are 15 options.

SWC-034-2

1. All days
2. Monday to Saturday
3. Weekdays only
4. Saturday and Sunday
5. Mon + Wed + Fri
6. Tues + Thurs + Sat
7. Mon + Tues + Wed
8. Thurs + Fri + Sat
9. Monday only
10. Tuesday only
11. Wednesday only
12. Thursday only
13. Friday only
14. Saturday only
15. Sunday only

Connect timer to a 12 or 24 volt DC supply with correct polarity.
NOTE:
1. Please install a 12 or 15 amp fuse in the supply circuit to protect the cables and the timer.
2. TIMER can either be mounted on short 'DIN' rail screwed to a surface, or the double-sided tape on back can be utilised for mounting.

Setting the internal clock to correct time.
1. Do a 'Reset' of timer. (Press the small recessed 'C' button with say the end of a paperclip)
2. Press and hold down the 'CLOCK' button while doing the following 4 steps:
   1. Press 'Week' button repeatedly until present day of week is displayed at the top of the screen.
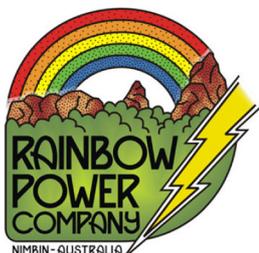
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2.   Press the 'H' button repeatedly, or press and hold until the present HOUR of day is displayed (24 Hr clock is used)
3.   Press the 'M' button repeatedly or press and hold until the present MINUTES of today's correct time is displayed.
4.   Lastly, the 'S' button is likewise used to set accurate SECONDS value of the present time of day.

To set the TIMER 'ON' time.
1.   Press 'Timer' button for 1 second. See the '01 on' showing in lower left hand side of display.
2.   Then press the 'Week' button repeatedly until the day or (days) of the week are displayed, that you want this program to be activated 'ON'.
3.   Press the 'H' button to set the HOUR value for the program TURN-ON time.
4.   Press the 'M' button to display the MINUTES value for the program TURN-ON time.
5.   Lastly press the 'S' button to set the SECONDS value of the TURN-ON time.

To set the TIMER 'OFF' time.
1. Press the 'Timer' button for 1 second. See the '01 off' now showing on lower left hand side of display.
2. Press the 'Week' button to display the DAY or days of the week that this program will turn off the load.
3. Press the 'H' button to set the HOUR value for the program to use for the TURN-OFF time.
4. Press the 'M' button to set the MINUTES value for the program to use for the TURN-OFF time.
5. Press the 'S' button to set the SECONDS value of the TURN-OFF time for this program.
6. After completing this, a successful ON/OFF program has been set.
To check the program ON/OFF times you've set for program 1, just hit 'Timer' key once to see 'ON' time, then again to see set 'OFF' time.

Any program setting which is presently displayed can be cleared by pressing the 'C/R' button on the timer.
Timer has an internal lithium battery, and retains clock and timer program settings if the DC supply power is ever removed.

OPERATION:
For normal operation press Red 'Manual' button until the AUTO state appears at bottom of display. The RED 'Manual' button can be used to 'override' the programmed operation at any time, by pressing until the word ON or OFF is displayed instead of AUTO.

ERROR INDICATION:
While programming the timer, if an error symbol is displayed (either 'E1' or 'E2') it indicates an illegal or missing ON or OFF time.
In most cases, the 'E1' displayed indicates an erroneous or missing 'ON' time and 'E2' denotes a missing or unobtainable OFF time.
For example: setting program '1 on' to 01:20:15, and '1 off' to 01:19:00 (earlier OFF time to ON time), will cause an error.
   -    To rectify this, go back and view the settings and make corrections as necessary.

Special Key Operations.
To lock the keypad on the timer (to avoid accidental or unqualified interference) press the 'Clock' button 4 times slowly, and the letter 'a' will appear on the lower left hand side of display. Keypad is locked. To unlock it, just repeat this action.
To disable and hibernate the timer but to retain clock and program settings, press and hold the Red 'Manual' button for approx. 5 seconds. This blanks the display. Repeating this will return the timer to normal operation.
Use the 'Manual' button to step to AUTO if not already in that mode.