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ET14 User Manual

Appearance:

LCD
(Function Figures)

Timer
(14 Programs Setting)

Clock
(Current Time Setting)

R
(Reset)

Day
(Days Setting)

H+
(Hours Setting)

M+
(Minutes Setting)

H+ + **M+**
(Summer Time switched)

Override
(Manual ON/OFF Switched)

Day + **H+**
(Random Function Switched)
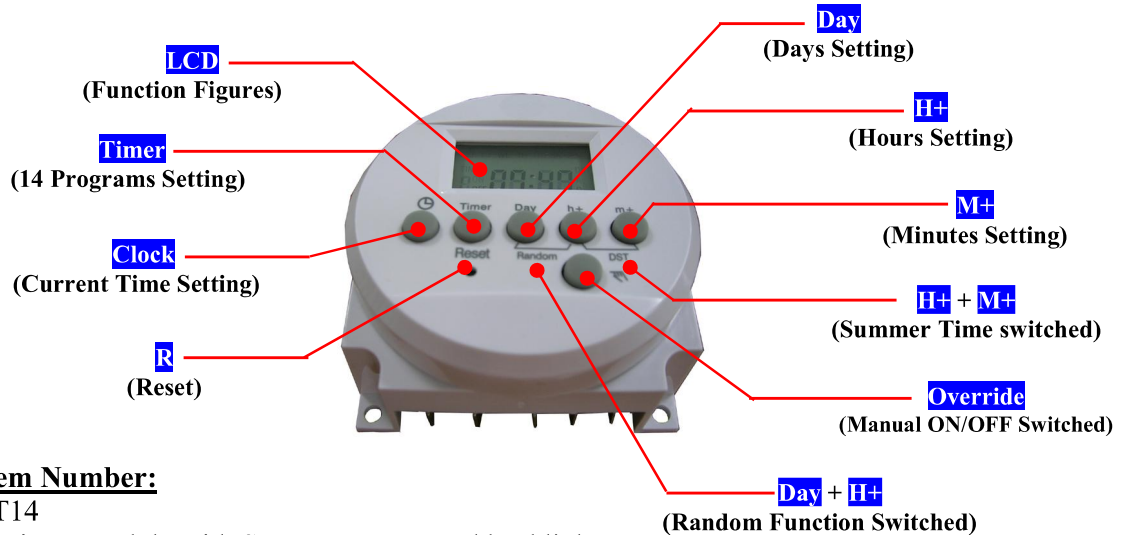
Item Number:
ET14
E-Timer module with Surge Protector and backlight

Output Control:
Timer / Manual control

Output Switch:
UL R/C Relay.

Program Back-Up:
Ni-MH Rechargeable Battery.

Operate Temperature:
-10 ℃ to + 55 ℃.

Type of function figures:
LCD With EL Panel Backlight

Programmable:
Every minute.

Safety listed:
UL & cUL approval..

Installation:
Wiring Type.

Timer accuracy:
± 1 sec/day. at 20 ℃.

Power Supply:
125Vac.

Ratings:
12Vdc, 15A Resistive
24Vac ~ 240Vac 15A Resistive
24Vac ~ 240Vac 15A General Purpose
125Vac ~ 240Vac 8A Ballast.
125Vac   1000W Tungsten
240Vac 2000W Tungsten
120Vac, 1/2 HP
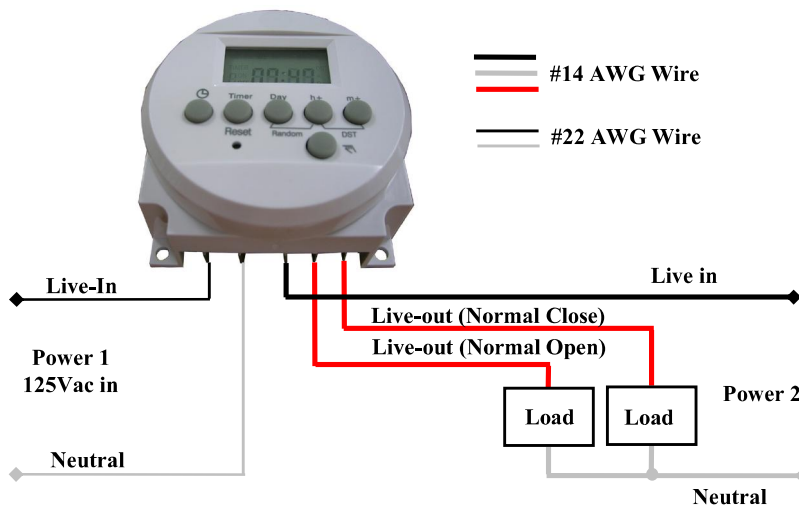240Vac, 1HP

Surge Protector:
➢ 2 Line Protection : Hot, Neutral.
➢ Max. Surge Dissipation : 57 Joules
➢ Response Time : Less than 1 nanosecond (1 billionth of a second)
➢ Max. Spike Current : 45000 Amps

Single Power Wiring:

#14 AWG Wire

#22 AWG Wire

Live-In

Live-out (Normal Close)

Live-out (Normal Open)

125Vac in

Load   Load

Neutral

Double Power Wiring:

#14 AWG Wire

#22 AWG Wire

Live-In

Live in

Live-out (Normal Close)

Live-out (Normal Open)

Power 1
125Vac in

Load   Load

Power 2

Neutral

Neutral
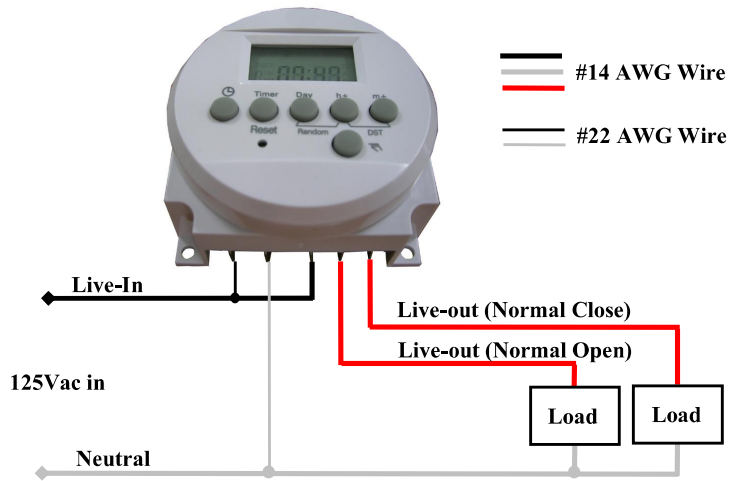
A. Install Set Up:

Connect into the 125Vac/60Hz power supply as following wiring connect diagram. Push the key *"Reset"* when any figure displayed on the LCD. Then display will flash showed as below.

Press and release the *"Clock"* Button to start the program in clock mode (display stop flashing now).

B. Current Time Setting:

➢ Keep key *"Clock"* pressed during the entire setting operation.
➢ Pressed the *"H+"* key to set the hours.
➢ Pressed the *"M+"* key to set the minutes.
➢ Use key *"Day"* to bring the actual day of the week into the display.
➢ Release key *"Clock"*.

The timer is in operation. Indication is the flashing colon in the display.

C. Programming of switching ON operation:

Operate key *"Timer"* once. The time of day as set disappears from the display.

TIMER 1 ON - - : - - appears.

Now we can set the switching time, at which a connected appliance is required to switch on. The setting of hours and minutes is done again by pressing the *"H+"* or *"M+"* in the relevant directions, as described under B (setting of time of day). Use the *"Day"* key to select the relevant day or days for which this setting is relevant. (See paragraph F to find out which day groups are available)
Press key *"Timer"* again to store the setting and then the symbol

TIMER 1 OFF - - : - - will appear.

D. Programming of switching OFF operation:

Symbol **TIMER 1 OFF - - : - -** is visible in the display.
Again one need to set hours and minutes in the same manner as before. Press *"Timer"* key to store the setting

E. In order to insert further switching times - ON or OFF:

For multiple settings repeat the programming sequence. The display shall show the next vacant storage space: for instance

TIMER 2 ON - - : - - . One can program in total 7 different switching sequences.

G. Multiple week-day switching groups:

Apart from individual week-days key **"Day"** also serves to operate multiple day combinations namely:

- Monday ~ Friday
- Tuesday + Thursday + Saturday
- Saturday **+** Sunday
- Monday ~ Wednesday.
- Monday ~ Saturday
- Thursday ~ Saturday.
- Monday + Wednesday + Friday
- Monday ~ Sunday.

Once a single day or one of these multi-day-combinations is incorporated in the storage compartment as part of the program, the programmed switching order shall be carried out on each of these week-days at the same time.

K. Alternation or checking of switching commands:

For the purpose of alteration or checking, key **"Timer"** serves to bring the individual programmed switching commands successively into the display at any time. Alteration are carried out simply by changing the hours, minutes or days by applying the appropriate keys as described previously.

L. Cancel one of switching commands:

Press **"Timer"** key. Then by using the "**H+**" and "**M+**" edit the relevant programmed time setting command in such a way that the hour-and/or minute area in the display shows the symbol **- - : - -** . The press **"Timer"** key again to store this, now neutral, setting.

M. Lockout one of switching commends:

➢ Press **"Timer"** key. Then by **"Override"** key to lockout the relevant programmed time setting command. The display shows the symbol "H I : d E" and lock the hours and minutes setting.
➢ Press **"Override"** key again to recall the setting time.

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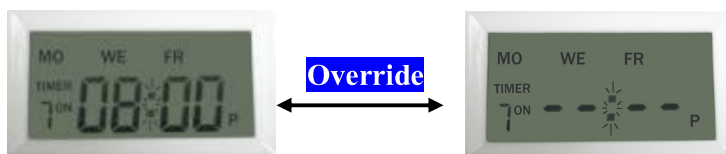
N. Switching Condition Indication:
The actual switching condition is show in the display as "ON" or "OFF" together with the time of day.

O. Manual Override switch:
Independent of the programming, it is possible - at any given time - to advance the next following switching command by depressing key *"Override"* , on the assumption, however, that the time of day has already been set.
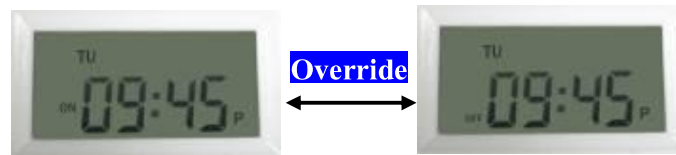

P. Random, ON/OFF Setting:
This feature allows the timer to switch ON and OFF at random times. It is particularly useful in helping to prevent house burglary as the timer is not switching ON and OFF at regular times. It provides added security when your house is unoccupied for a long period of time. The programmed switching commends you have previously preset will be executed in a random delay varying within 30 minutes. This function will only operate if one or more programmed switching commands are set.

➢ Press both *"Day"* and *"H+"* keys at the same time. Display will show the "TIMER" symbol blinking.

➢ 2. To Cancel Random function simply repeat above procedure. The "TIMER" sign will disappear from display.
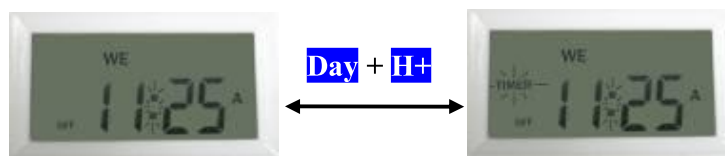
Q. Summer Time Setting:
Press both *"H+"* and *"M+"* keys at the same time for setting the summer time. Then the present time increase an hour, and LCD appears the character of "DST". This function can be turned off by pressing *"H+"* + *"M+"* keys again.
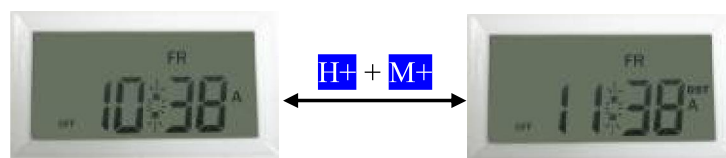
R. Running Reserve:
In the case of mains failure, the integrated accumulator ensures that the actual time of day continues to operate and that the automatic switching program remains intact. The instrument can be programmed completely even without mains supply, provided the accumulator is fully charged