TM-619- SERIES

The 7 days 24hrs programable timer switch can automatically switch on and switch off various kind of equipments at **preset time**

It's widely used in 7 day programing of streetlight, neon lights, lamps, water heaters, air conditions, billboards, signboards, sprayers, agriculture or aquarium equipments, etc.

DESCRIPTION MODELS TYPES

20AMP@250VAC   TM619H-2 4P
20AMP@250VAC   TM619H-2 5P
These are available with replaceable battery CR2032

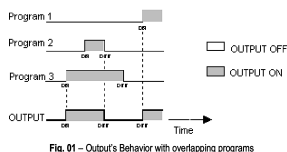16AMP@250VAC   TM619H-2 4P
These are available with rechargeable battery V80H

GENERAL INFORMATION

This 7 DAY's Digital Timer Series is available in 230VAC, with voltage free output (5PIN) or voltage output (4PIN).

The Timer Program & Clock Memory is retained by Replaceable CR2032 or Rechargeable V80H Lithium ION Battery.

This Timer Series is accurate to the minute with either 8 or 18 ON/OFF Events per day

Fig. 01 – Output's Behavior with overlapping programs

The 15 combination of Daily-Programs, leads to great convince to user to choose desired Days of Week

PROGRAMMING THE TIMER #1

A. Functional description of the Button on Panel
1. **TIMER:** Programing Mode
2. **MANUAL:**
    - Select **"ON, AUTO, OFF"**
    - **"Cancel Reset Program"**
3. **CLOCK:**
    - Clock settings **"Day, Hour, Minutes"**
    - **Press & Hold for AM/PM**
4. **DAY:** adjust the day of the week
5. **HOUR:** adjust the hour
6. **MIN:** adjust the minutes
7. **LED:** Indicates ON / OFF status
8. **RESET:** Ⓡ Reset the Timer setting

B. Adjusting the CLOCK
- Press and hold the **"CLOCK"** and the press **"DAY"** key, **"HOUR"** key, **"MIN"** key respectively to adjust the clock of timer to accurate DAY, HOUR, MINUTE.
- Press and hold the **"CLOCK"** key over 3 Sec for **"AM&PM"**

LCD Screen shall display 00:00 - 23:59 in 24Hour Format.

	MO	TU	WE	TH	FR	SA	SU
1.	MO	TU	WE	TH	FR	SA	SU
2.	MO						
3.		TU					
4.			WE				
5.				TH			
6.					FR		
7.						SA	
8.							SU
9.	MO	TU	WE	TH	FR		
10.						SA	SU
11.	MO	TU	WE	TH	FR	SA	
12.	MO	TU	WE				
13.				TH	FR	SA	
14.	MO		WE		FR		
15.		TU		TH		SA	

C. Start to programming the TIMER

1. Press **TIMER** key. LCD screen shall show **1-ON _ _ : _ _**

2. Press **DAY** key to select any of the 15 combinations of daily programs. Every press of **DAY** key, LCD shall alternate through the 15 combinations.

3. Press **HOUR, MIN** respectively to set the desired Hour and Minutes for **1-ON**

4. Press **TIMER** key again, the LCD screen shall show **1-OFF _ _ : _ _**

5. Press **DAY** key to select any of the 15 combinations of daily programs. Every press of **DAY** key, LCD shall alternate through the 15 combinations.

Day-Combination should be same for ON & OFF

6. Repeat Step 3 to set desired Hour and Minutes for **1-OFF**

7. Press **TIMER** key again, the LCD screen shall show **2-ON _ _ : _ _**

8. Repeat Programing Step 2, 3 & 4 to set the ON / OFF program-periods (Events)

1-ON _ _ : _ _ => **1-OFF _ _ : _ _** => ● ● ● ● **18-OFF _ _ : _ _**

9. When finished program-setting (events) press **CLOCK.** Press Clock after the number of events but ensure its pressed after setting the OFF Time.

D. To Review or Reset the Programs

Press **"TIMER"** key, on each press the LCD will display 18-ON and 18-OFF events. If you want to change any of the event timer, press **MANUAL** key and the follow step 2 & 3.

Electrical Installation should only be carried out by a competent person (someone who has the necessary skills, knowledge and experience to carry out the work safely).

PROGRAMMING THE TIMER #2

E. COUNT DOWN FUNCTION:

In clock mode, Press **CLOCK** and **TIMER** together over 3 Sec for **Count down Function of Timer,** LCD screen shall display **d 00:00**

Press and hold **CLOCK** key and **HOUR, MIN** key respectively to set the count down time (0:00 to 23:59)

Press the **MANUAL** key to start the countdown. The Timer will **ON and OFF after the set period.** Press **TIMER** to STOP the countdown.

F. AUTO TIME DEFLECTION Correction Weekly.

In Clock mode, press **MANUAL and TIMER** key into auto time deflection correction mode **7 d 00:00**

Press **DAY** key to adjust time deflection, the setting range is +/- 30 Sec. Every week the timer will adjust the time by the set sec.

The drift in the time over a week needs to be observed with an accurate clock, to know the drift.

G. SLEEP MODE

In the clock mode, Press **DAY, HOUR** keys over 3 sec the timer will go to sleep mode and display is shutdown. This feature to be used when the timer is not used for a long timer and the battery CR2032 life is extended. To activate Reset the timer, Press ⓡ key.