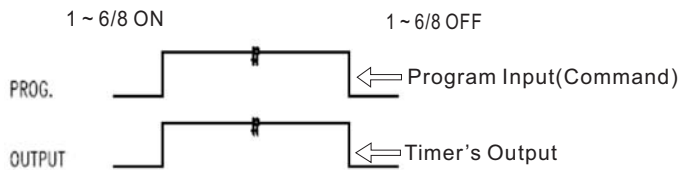# GENERAL INFORMATION

This Panel-Mount Digital Timer series can be produced for wide range of power supply sources, from 240Vac to 12Vdc, output format can be produced with either volt-free or volt-ouput.

Optional, either replaceable Lithium CR2032 or rechargeable V80H are equipped with Timer to provide programming memory backup.

TM-619-series

This Digital Timer is accurate to the minute, designed with either **6** or **8 ON/OFF(event) per day** Graphic description, as below:
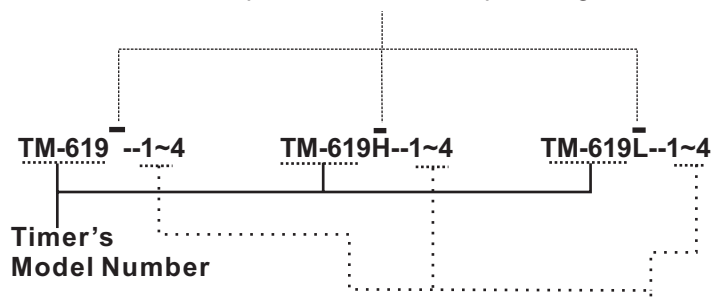
1 ~ 6/8 ON   1 ~ 6/8 OFF

PROG. ⟵ Program Input(Command)

OUTPUT ⟵ Timer's Output

Also ,it provides 15-combination of Daily-Programs which can leads great convenience to users upon choosing desired DAYS of WEEK.

	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	

DESCRIPTIONS TO MODEL CODE

Advise factory upon ordering, for requirements of
6 or 8 ON/OFF
12H or 24H clock format
Lithium CR2032 or Rechargeble V80H

    : Volt-Free contact, 250Vac/16Amp Rating
H : Volt Output, 250Vac/20Amp Rating
L : Volt Output, 250Vac/16Amp Rating

TM-619 --1~4   **TM-619H--1~4**   **TM-619L--1~4**

Timer's
Model Number

1 ~ 4 Power supply for Timer
1: 120Vac main supply
2: 240Vac main supply
3: 24Vac/Vdc
4: 12Vdc

PROGRAMMING THE TIMER #1

A.Functional description to buttons on panel
1. **TIMER** : Programs review & setting programs
2. **MANUAL** : To select "**ON**,**AUTO** or **OFF**"
3. **CLOCK** : To adjust current DAY and TIME
4. **Day** : To adjust day of week
5. **HOUR** : To adjust Hour
6. **MIN** : To adjust minute
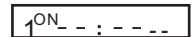7. ℗ : Reset Timer's setting
8. **LED** : To indicate ON/OFF status

Press ℗ button to reset Timer before programming

B.Adjusting CLOCK
Press and hold **CLOCK** and then press **DAY** key, **HOUR** key, **MIN** key respectively to adjust clock of Timer to accurate **DATE, HOUR, MINUTE**. In 12-Hour-Format, **PM & AM** shall appear on LCD screen. In 24-Hour-Format LCD screen shall indicate 0:00 ~23:59

C. Start to programming the TIMER
1. Press **TIMER** key. LCD screen shall show

$$1^{ON}\_ \_\_ : \_\_\_\_$$

2. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.

3. Press **HOUR** , **MIN** respectively to set desired Hour and Minute for 1^{ON}

4. After finished setting of 1^{ON}, Press **TIMER** key again, $1^{OFE}\_ : \_\_\_\_$ shall appear on LCD screen.

5. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.

> **Day-combination chosen in each of ON/OFF program-period must be consistent.**

6. Repeat Programming procedure "**3** " to set desired Hour & Minute for 1^{OFF}
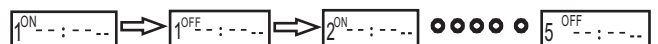
7. When finished setting 1^{ON} & 1^{OFF}, Press **TIMER**,

$$2^{ON}\_ \_\_ : \_\_\_\_$$ shall appear on LCD screen.

8. **Repeat programming procedure above** to complete rest of ON/OFF program-period(event)

$1^{ON}\_\_ : \_\_\_$ ⟹ $2^{OFE}\_ : \_\_\_$ ⟹ ○○○○ ○ $8^{OFF}\_\_ : \_\_\_$

or just to the desired number of ON/OFF(event) setting for demand of practicable application.

$1^{ON}\_\_ : \_\_\_$ ⟹ $1^{OFE} : \_\_\_$ ⟹ $2^{ON}\_\_ : \_\_\_$ ○○○○ ○ $5^{OFF}\_\_ : \_\_\_$

9. When finished program-setting(event), press **CLOCK** , Timer shall start to execute programs.

D. To review programs
Keep to press **TIMER** , display on LCD screen shall alternating display among each of
6 or 8 ON/OFF

E. How to use OVERRIDE functions
619-programming-modeTimer is designed with
2 Override function, so as to widen its usage upon
practicable application.   Override function
is effective only when Timer is running
under AUTO mode.

Temporary-Override --- Follow procedure below:

Condition-1 When Timer's output status is "**ON**"
Pressing **MANUAL** key, to move indicator
from " AUTO " to " OFF", Timer output shall turn
to " OFF" status, programs overrided.
Pressing **MANUAL** again to switch Timer status
to " AUTO ", Timer's output shall continue
maintaining " OFF ". Timer shall resume its automatic
operation when next program(event) calls for " ON ".
(With next opposite set point).

Condition-2 When Timer's output status is "**OFF**"
Pressing **MANUAL** key, to move indicator from
" AUTO " to " ON", timer output shall turn to " ON"
status, programs overrided.
Pressing **MANUAL** again to switch Timer status
to " AUTO ", Timer's output shall continue maintaining
" ON ".   Timer shall resume its automatic operation
when next program(event) calls for " OF ".
(Until next opposite set point)

Random-Start-Up Override – Press and hold **DAY**
key and then press **MIN** key. There shall be a symbol
shows on left corner of LCD screen, to indicate
this Override in executing.

When this Override is being executed, the original
programs will be stopped, and once every
10 to 120 minutes Timers shall automatically
turn its output to "ON" status.

In practicable application which is applied to
home-use, this Override function also called Anti-Burglar
Override.

Once again to press and hold **DAY** key, and then
press **MIN** key shall terminate this Override.

HOW TO REPLACE BATTERIES

Remark:
1. For voltage and electrical RATING information,
   please refer to the markings on the back of timer.
2. See the back of timer for proper wire connections.
3. Timer may need to be connected to power source
   in order to set the program.

Follow graphic description below & Refer to section of
Descriptions to Model Code on this instruction-sheet
upon proceeding electrical wiring.