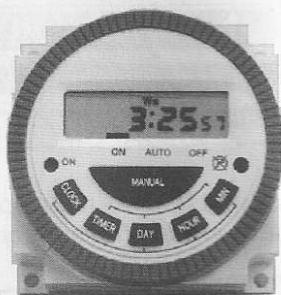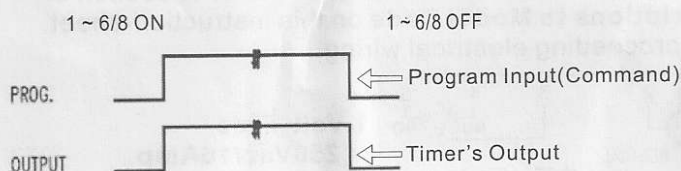This Panel-Mount Digital Timer series can be produced for wide range of power supply sources, from 240Vac to 12Vdc, output format can be produced with either volt-free or volt-ouput.

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:
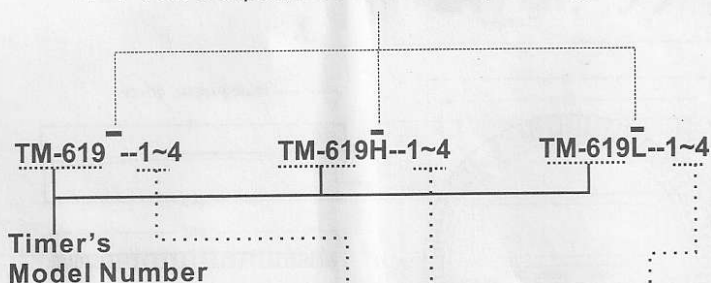
1 ~ 6/8 ON   1 ~ 6/8 OFF

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

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^{OFF} __ : ---- 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^{OFF}__ : ---- ●●●● ● 8^{OFF}__ : ----

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

1^{ON}__ : ---- ⟹ 1^{OFF}__ : ---- ⟹ 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

PROGRAMMING THE TIMER #1

E. How to use OVERRIDE functions
619-programming-mode Timer 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.
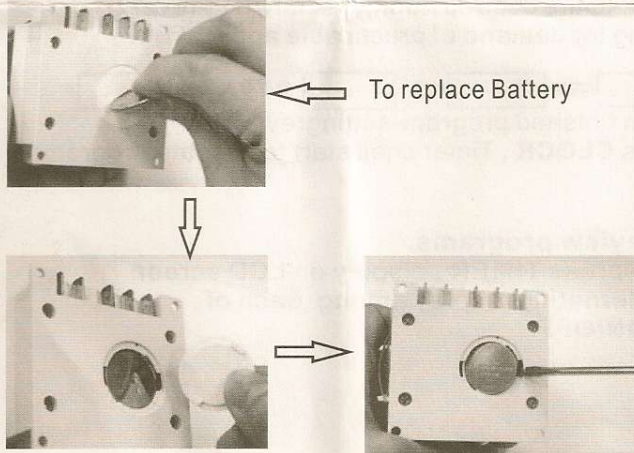
When this Override is being executed, the original programs will be stopped, and once every 10 to 120 minutes Timers shall automatically turn its output to "ON" status.

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

For Model with Lithium CR2032

← To replace Battery

PROPOSED APPLICATION

⚠ **DANGER** ⚠
Electric Shock Or Fire Hazard
READ ALL WIRE SIZING, VOLTAGE REQUIREMENT AND SAFETY DATA AVOID PROPERTY DAMAGE AND PERSONAL INJURY
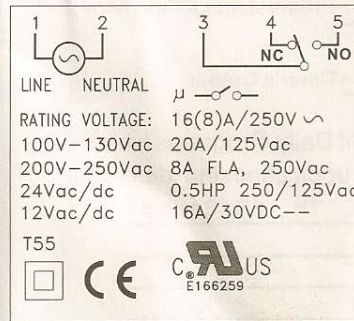
Output terminal of Timer is produced with Flat-head Jack-Type socket to provide convenient electrical wiring upon mounting Timer on equipments.

Subject to output formats and formats of Contact Rating, there are 3 different styles in TM-619-series.
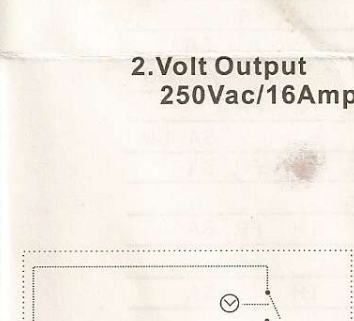
Remark:
1. For voltage and electrical RATING information, please refer to the markings on the back of timer.
2. See the back of timer for proper wire connections.
3. Timer may need to be connected to power source in order to set the program.
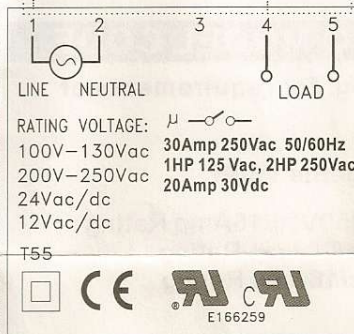
Follow graphic description below & Refer to section of **Descriptions to Model Code** on this instruction-sheet upon proceeding electrical wiring.

1. Volt Free
250Vac/16Amp

LINE   NEUTRAL   NC   NO

RATING VOLTAGE: 16(8)A/250V
100V–130Vac   20A/125Vac
200V–250Vac   8A FLA, 250Vac
24Vac/dc   0.5HP 250/125Vac
12Vac/dc   16A/30VDC––
T55
CE   c𝖀𝖀us E166259

2. Volt Output
250Vac/16Amp

LINE   NEUTRAL   LOAD

RATING VOLTAGE: 16(8)A/250V
100V–130Vac   20A/125Vac
200V–250Vac   8A FLA, 250Vac
24Vac/dc   0.5HP 250/125Vac
12Vac/dc   16A/30VDC––
T55
CE   𝖀𝖀 c E166259

3. Volt Output
250Vac/20Amp

LINE   NEUTRAL   LOAD

RATING VOLTAGE:
100V–130Vac   30Amp 250Vac 50/60Hz
200V–250Vac   1HP 125 Vac, 2HP 250Vac
24Vac/dc   20Amp 30Vdc
12Vac/dc
T55
CE   𝖀𝖀 c𝖀𝖀 E166259

TRANSPARENT COVER

1 2   3 4 5
INPUT   OUTPUT

B1-61900-002B1