FRONTIER TM619H2 DIGITAL TIMER

SOME OF IT'S FEATURES:

- Digital display with backlight
- Programmable scheduling options
- Battery backup during power outages
- Load capacity up to 16A
- Countdown timer feature
- User-friendly interface
- Multiple daily on/off cycles
- Day-specific programming options
- Energy-efficient operation
- Simple installation process
- Time and date display
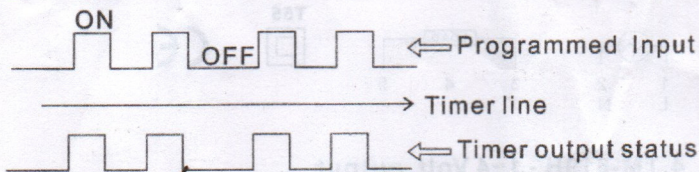
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GENERAL INFORMATION

This Panel-Mount Digital Timer series can be operated in 4 separate power supplies,ranges from 240 Vac to 12 Vdc. Output format can be produced to be Volt-free or voltaic-ouput.

Batteries of Lithium CR2450 for option which is for retaining the programing during Timer's operating power disconnected.

TM-619-series

This Digital Timer is accurate to the minute,designed with either **16 ON/OFF(event) per day** Graphic description, as below:

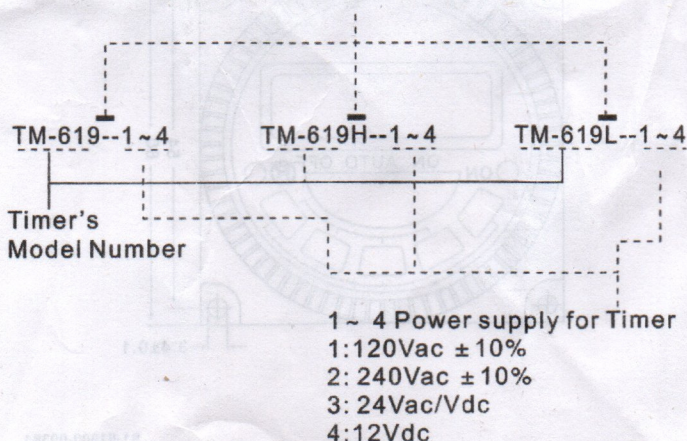

Also,it provides 15-combination df Daily-Programs which can lead great convenience to users upon choosing the required days in a week for operating the timer.

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

1.16 on/off per day
2.Lithium CR2450 battery

  : Volt-Free contact,250Vac/16Amp/20Amp 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 ±10%
2:240Vac ±10%
3:24Vac/Vdc
4:12Vdc

PROGRAMMING THE TIMER #1

A.Functional description to buttons on panel
1.**TIMER**: Programs review &setting programs
2.**MANUAK**: 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.⊗: Starting up/Reset Timer's setting
8.**LED**: To indicate ON/OFF status

Press⊗button to reset Timer berfore 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**.

C. Start to programming the TIMER
1.Press ⊗ to start up
2.Press **TIMER** key.LCD screen shall show

$$1^{ON}-- : --\,--$$

3.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.

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

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

6 .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 .

7.Repeat Programming procedure "4" to set desired Hour & Minute for 1^{OFF}

8.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)

$1^{ON}-- : --\,-- \Rightarrow 2^{OFF}-- : --\,-- \Rightarrow ● ● ● ● ● \; 16^{OFF}-- : --\,--$

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 16 ON/OFF
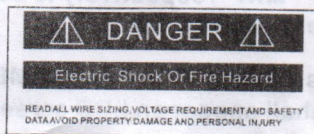
10.Count down:("d" displays at-left comer of LCD)

Step	Key	Programming
1	Press Clock+Timer	Into count down
2	Press Clock&**HOUR/MIN**	Setting min/sec
3	Press **MANUAL**	Start count down
4	Press Clock+Timer	Exit

11. PULSE setting : ("P" displays at bottom - left corner of LCD)

Step	Key	Programming
1	Press HOUR&MIN	Into pulse setting
2	Press Clock &HOUR/MIN	Setting pulse time range Isec.-23min 59sec
3	Press Clock &MANUAL	Confirm pulse time range
4	Press TIMER	Into setting 1 on time (display 1 on)
5	Press HOUR/MIN	Setting on time
6	Press DAY	Select days of week, same everyday, MO-FR, MO-SA, SA SU, MO-WE, TH-SA, MOWE FR, TU TH SA, different everyday.(If same everyday, not press this key)
7	Repeat step 4-6	Setting 2-18 on time
8	Press Clock	End
9	Press HOUR&MIN	Exit pulse

12. Press "DAY" and "HOUR" for 3 seconds to turn off, but the setting will be lost

13. Press ⊗ to restart, but the settings can not be restored

PROPOSED APPLICATION

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 4 different styles in TM-619-series.
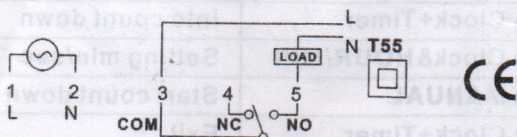
Remark:

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.
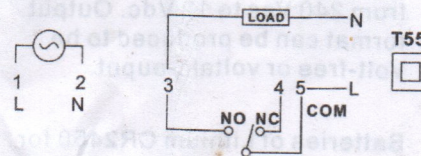
1. TM-619 - 1~4 Volt Free output (16A Rating)

Input voltage   16(8)A/250V~
1. 100V-130Vac   20A/125Vac
2. 200V-250Vac   8A FLA, 250Vac
3. 24Vac/dc   0.5HP 250/125Vac
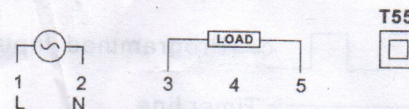4. 12Vac/dc   16A/30VDC--

2. TM-619- 1~4 Volt Free output (30A Rating)

Input voltage
1. 100V-130Vac   30Amp 250Vac 50/60Hz
2. 200V-250Vac   1HP 125Vac, 2HP 250Vac
3. 24Vac/dc   20Amp 30VDC--
4. 12Vac/dc

3. TM-619L - 1~4 Volt output

Input voltage   16(8)A/250V~
1. 100V-130Vac   20A/125Vac
2. 200V-250Vac   8A FLA, 250Vac
3. 24Vac/dc   0.5HP 250/125Vac
4. 12Vac/dc   16A/30VDC--

4. TM-619H - 1~4 Volt output

Input voltage
1. 100V-130Vac   30Amp 250Vac 50/60Hz
2. 200V-250Vac   1HP 125Vac, 2HP 250Vac
3. 24Vac/dc   20Amp 30VDC--
4. 12Vac/dc

B1-61900-003B1