

GENERAL INFORMATION

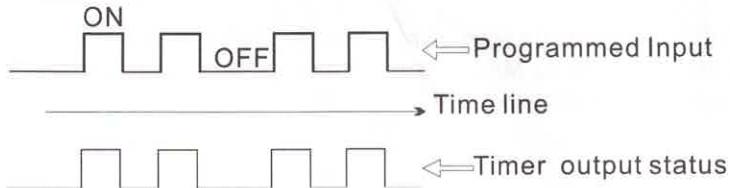
This Din-Rail **35 mm** Mount Digital Timer series can be produced for operating with 4 separate power supply sources, ranges from 240Vac to 12 Vdc, all 4 models are with Volt-free output format .



TM20848

Equipped with Lithium CR2032 for retaining the programming during Timer's operating power disconnected.

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



Also ,it provides 15-combination of Daily-Programs which can leads 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	



PROGRAMMING THE TIMER #1

A. Functional description to buttons on panel

- TIMER** : Programs review & setting programs
- MANUAL** : To select "ON,AUTO or OFF"
- CLOCK** : To adjust current DAY and TIME
- Day** : To adjust day of week
- HOUR** : To adjust Hour
- MIN** : To adjust minute
- Ⓟ** : Reset Timer's setting
- LED(POWER)** : 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

- Press **TIMER** key. LCD screen shall show

- 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.

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

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

- 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.

- Repeat Programming procedure "3" to set desired Hour & Minute for **1^{OFF}**

- When finished setting **1^{ON}** & **1^{OFF}**, Press **TIMER**,

shall appear on LCD screen.

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

⇒ ⇒ ●●●●●●

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

⇒ ⇒ ●●●●●●

- 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 **8 ON/OFF**

⚠ DANGER ⚠

Electric Shock Or Fire Hazard

READ ALL WIRE SIZING, VOLTAGE REQUIREMENT AND SAFETY DATA AVOID PROPERTY DAMAGE AND PERSONAL INJURY

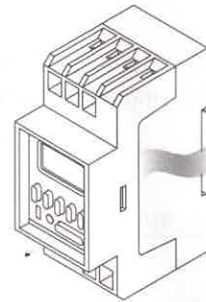
Output of Timer is produced with screw-on type to provide convenient electrical wiring upon mounting Timer on equipments.

This Timer provides Volt-Free output contact only.

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.



Remove the battery insulation before operating.

E. How to use OVERRIDE functions

619-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 overridden. 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 overridden. 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 "OFF". (Until next opposite set point)

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

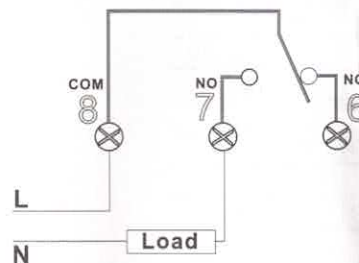
When this Override is being executed, the original programs will be stopped, and once every 10 to 120 minutes Timers shall automatically turn its output to "ON" status.

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 stop this Override.

Timer will be automatically switched OFF during off-peak periods during 06:00-08:00 and 18:00-20:00

For Use in Pollution Degree 2 Environment



Input Voltage:

- 1. 100 ~ 120 Vac
- 2. 200 ~ 240 Vac
- 3. 24 Vac / Vdc
- 4. 12 Vdc

Output Rating: **Volt free**
 16A, 120/240Vac, Resistive
 8A, 120/240Vac, General use
 1/2HP, 120/240Vac

