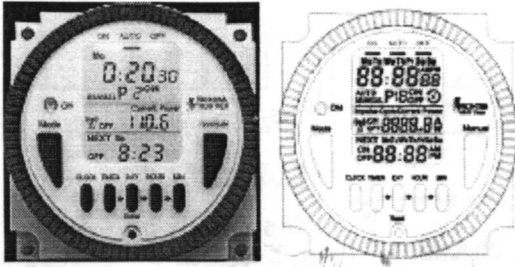


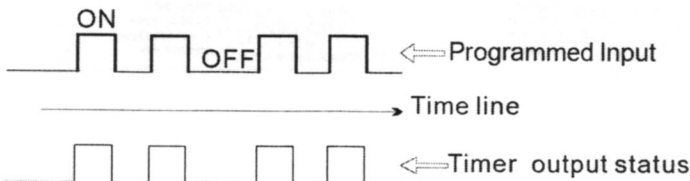
TM-2140 Programmable Digital Timer



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-output.

Batteries of Lithium CR2032 or rechargeable ML2032 or V80H available for option which is for retaining the programming during Timer's operating power disconnected.

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 of 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	

PROGRAMMING THE TIMER #1

A. Functional description to buttons on panel

- TIMER** : Programs review & setting programs
- MODE** : 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** : To indicate ON/OFF status
- MANUAL KEYD** : OVERRIDE functions.

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 1 ON _ _ : _ _ _

- 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, 1 OFF _ _ : _ _ _ 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**,

2 ON _ _ : _ _ _ shall appear on LCD screen.

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

1 ON _ _ : _ _ _ ⇒ 2 OFF _ _ : _ _ _ ⇒ ●●●●●● 16 OFF _ _ : _ _ _

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

1 ON _ _ : _ _ _ ⇒ 1 OFF _ _ : _ _ _ ⇒ 2 ON _ _ : _ _ _ ●●●●●● 3 OFF _ _ : _ _ _

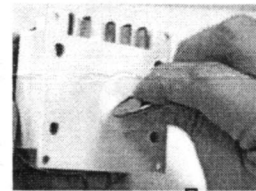
- When finished program-setting(event), press **CLOCK**, Timer shall start to execute programs.

D. To review programs

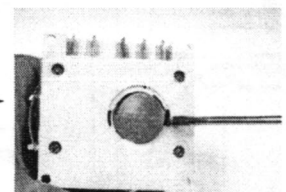
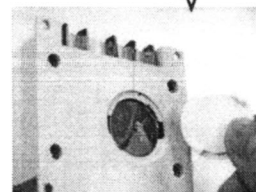
Keep to press **TIMER**, display on LCD screen shall alternating display among each of 16 ON/OFF

HOW TO REPLACE BATTERIES

For Model with Lithium Cr2032



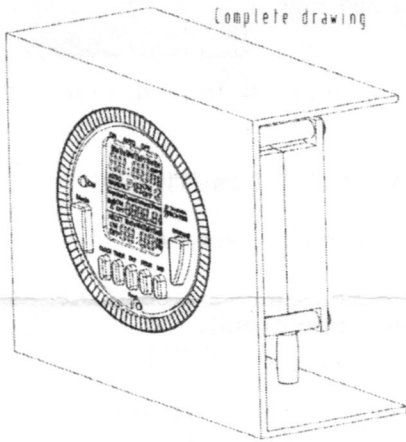
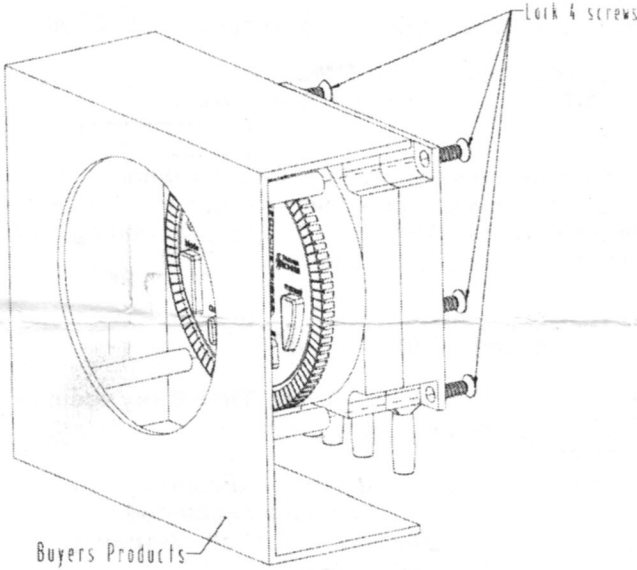
← To replace Battery



Disconnect or turn off power before attempting battery replacement. Any installation, service or maintenance of luminaires must be performed by a qualified professional.

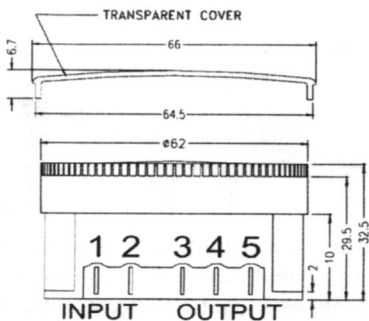
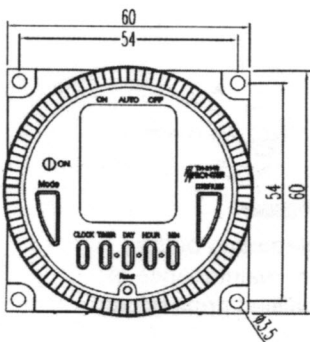
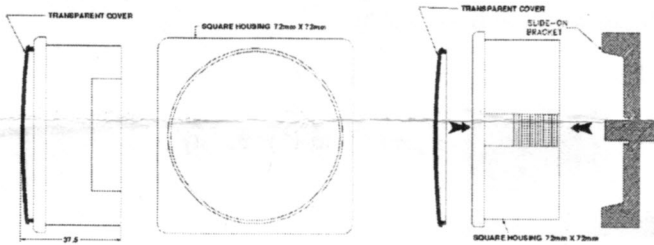
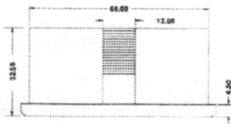
HOW TO INSTALLATION

4 screws locked on the terminal machine.

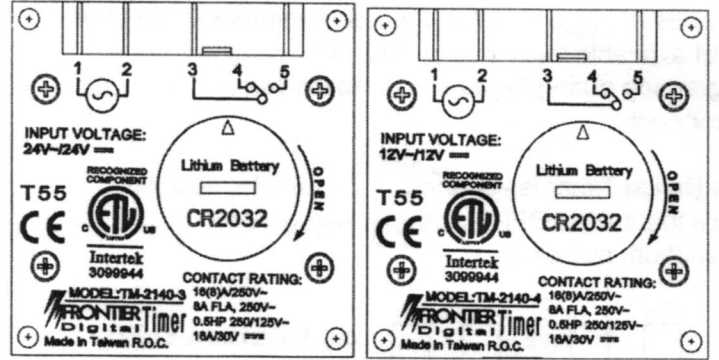
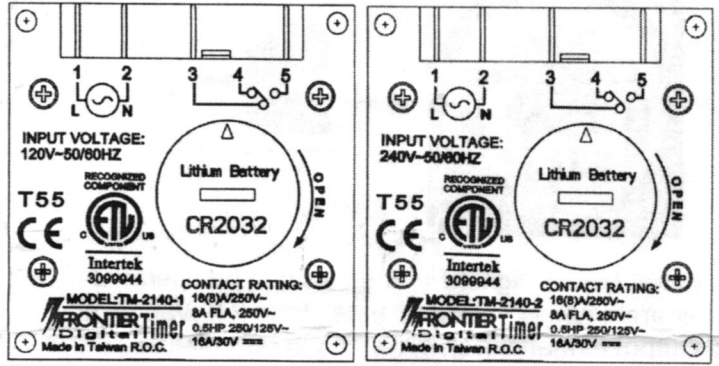


ACCESSORIES

Transparent cover, squared housing (72mm X 72mm), slide-on bracket



WIRING DIAGRAM



RECOGNIZED COMPONENT



Intertek
3099944

CONFORMS TO
UL STD 60730-1 & 60730-2-7
CERTIFIED TO
CAN/CSA STD
E60730-1& E60730-2-7

PROPOSED APPLICATION



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.

Descriptions:

- Automation features (type 1.B.S) will be executed properly as Timer settings.
- Endurance (1E4).
- Timer TM-2140 product is incorporated control.
- The contact power-off type of this machine is micro-disconnected.
- Working Ambient environment, Pollution degree (P2).
- IEC 61000-4-5 installation class (level 2).
- Timer TM-2140 will be installed in the system by customers, with Combi Boiler, Lighting Control, Industrial Control, General Electrical Circuit Control, Pump Control, Motor Control, Fan Control, Heater Control.