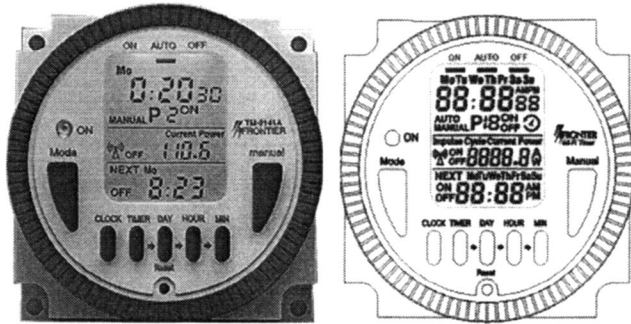


SAVE THIS INSTRUCTIONS

TM-2140A Industrial Smart Timer

Integrated measurement function, energy metering for voltage, current, and power consumption, and safe monitoring anytime, anywhere.



Power Metering

TH-2140A can monitor voltage, current and power consumption.

Applicants:

Timer TM-2140A 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.

Descriptions:

This Digital Timer series can be produced for 4 types of power supply sources, from 240Vac to 12Vdc. Output format can be produced with either volt-free or volt-output.

Automation features (type 1.B.S) will be executed properly as Timer settings.

Endurance (1E4)

Timer TM-2140A product is incorporated control.

The contact power-off type of this machine is micro-disconnected.

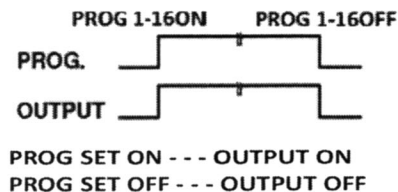
Working Ambient environment, Pollution degree (P2).

IEC 61000-4-5 installation class (level 2),

For easy installation, a special made Latch-on bracket available for option. Please your vendor for more info.

Features:

*7-day timer is accurate to the minute, and has the capacity to accept up to 32 points (16 ON/OFF times). Control Logic graphic description, as below:



*Temporarily override the schedule using manual button or via the smart phone App.

* From the mobile application or the timer, you have the option to run the schedule or set a permanent hold. In the Smart @ home APP, you have more flexibility and functionality to set the hold options that work best for you.

* Wi-Fi Signal Strength Indicator

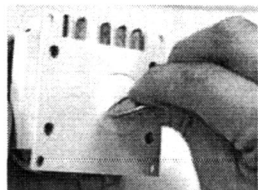
Specifications:

- * One channel
- * 7D Programming blocks
- * 16 On / 16 Off
- * Manual On / Off / Auto
- * 24-Hour or 12-Hour format
- * Program:
 - 7D: One week or all Independent
 - 5+2D: Weekdays + Weekend
- Power supply: Line voltage 100-240V~ 50/60Hz
- Contact rating: 16 (8)A/250V~
0.5HP 250/125V~
- Own consumption: 7VA
- Programming resolution: 1 minute
- Timing resolution: 1 second
- Manually set clock and program or override via the smart phone app.

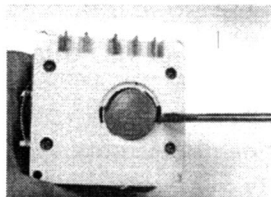
SAVE THIS INSTRUCTIONS

HOW TO REPLACE BATTERIES

For Model with Lithium Cr2032



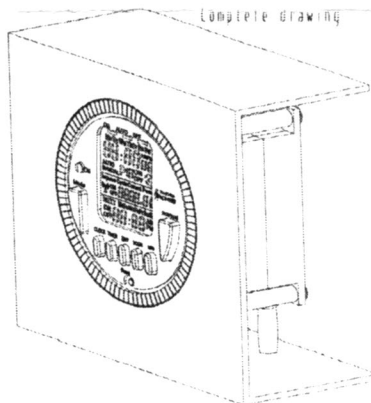
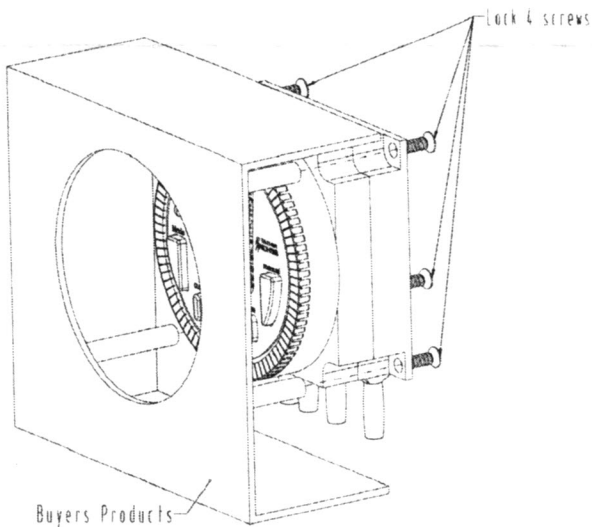
To replace Battery



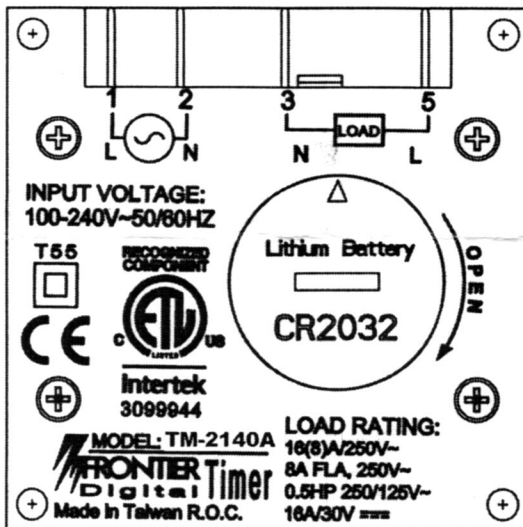
Disconnect or turn off power before attempting battery replacement. Any installation, service or maintenance of luminaires must be performed by a qualified professional.

HOW TO INSTALLATION

4 screws locked on the terminal machine.



WIRING DIAGRAM



RECOGNIZED COMPONENT

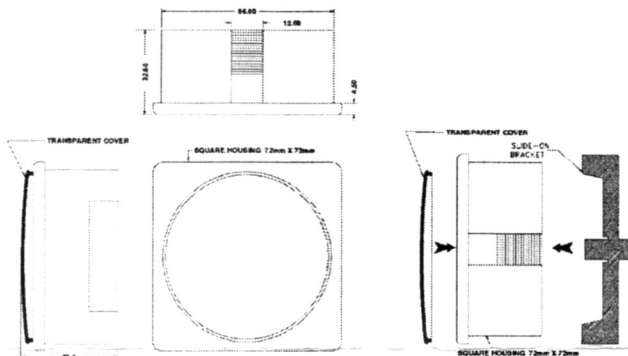


Intertek
3099944

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

ACCESSORIES

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



SAVE THIS INSTRUCTIONS

TM-2140(A) / TM-2141(A)

Operation Instructions

1. Time Setting

- (1) In normal mode, press and hold CLOCK
- (2) Press DAY / HOUR / MIN to adjust Time day/hr/min

2. Program Setting

- (1) In normal mode, press TIMER and then get into SETTING mode.
- (2) Press DAY / HOUR / MIN and adjust ON/OFF of P1~P16 (16 events of time preset)
- (3) Press TIMER for 3 sec to switch Timer on/off
- (4) Press CLOCK and return to NORMAL mode

3. Operation Mode Setting

- (1) In normal mode, press Mode to switch AUTO / ON / OFF modes

2. Manual Mode Setting

- (1) In normal mode press MANUAL to switch manual mode ON <-> OFF

3. Power Metering Display (TM-2140A/TM-2141A)

- (1) In normal mode press CLOCK
- (2) Press Mode to switch among Wattage (W-Default) / Voltage (V) / Current (A) / RSSI (Strength)

4. LCD Display Contrast Adjustment

- (1) In normal mode, press HOUR (-) / MIN(+) to adjust the LCD Contrast
- (2) Adjustable Contrast Level(1~8) Contrast

Default:5

7. 24H / 12H Hour format setting

- (1) In normal mode, press MANUAL for 3 sec to switch 24H(default) / 12H hour format setting and then Time display flash 3 times for setting confirmed

8. Automatic power-off protection setting (TM-2140A / TM-2141A)

- (1) In normal mode, press MODE for 3 sec and entering setting mode
- (2) Press Mode switch to switch automatic power-off temperature mode/ automatic power-off current mode
- (3) Press HOUR (-) / MIN (+) to adjust automatic power-off temperature / automatic power-off current

- (3) Press CLOCK return to NORMAL mode

- (4) LCD will flash characters "Out" while Device is in AUTOMATIC POWER-OFF mode and App will show "OUTAGE" to remind users that it is in "AUTOMATIC POWER-OFF MODE"

9. Reset the device for re-pairing (TM-2141 / TM-2141A)

- (1) In normal mode, press DAY 5 sec
- (2) rESET(1Hz) LCD flashes -> rESET(2Hz)-> rESET(stop flashing and ready for re-pairing)

10. Time synchronized to WiFi device (TM-2141 / TM-2141A)

- (1) In ON LINE status and Normal mode, press CLOCK 3 sec ,time display flashes 3 sec after synchronized to WiFi Device completely

11. Timer Countdown mode

- (1) Press and hold CLOCK , and press TIMER to enter or leave Countdown mode.
- (2) Press Manual run / pause.
- (3) Press Mode to stop countdown , re-press to clear up/ back to Time Setting.
- (4) While countdown stops , press DAY / HOUR / MIN to set 時hr/ min / sec.
- (5) while countdown stops , press TIMER to switch Countdown timer active / de-active.

12. Abnormal status warning (TM-2140A / TM-2141A)

Relay contact monitoring to ensure the connection safety.

Err 1: No power-output sensing when output setting is on.

Err 2: Power-output sensing when output setting is off.

Self-Protection (AUTOMATIC POWR-OFF)

1. Self-protection mechanism setting. User can preset the safety working temperature range from 75°C ~95°C. Timer will be Automatic powered-off when the internal working temperature is over 80°C.

2. Self-protection mechanism setting. User can preset the safety power consumption range from 5A-25A. Timer will be automatic powered-off when the power consumption is 20% over than the present value and it lasts for more than 1 min.