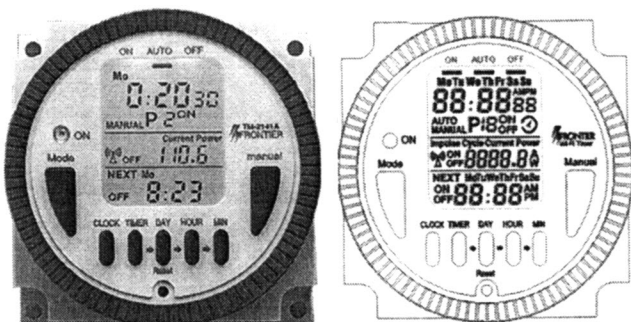


SAVE THIS INSTRUCTIONS

TM-2141A/ TM-2141 Wi-Fi Power-Monitoring Industrial Smart Timer

Integrates the measurement functions that can do power metering of voltage, current and electricity consumption via smart phone App, monitoring securely anywhere anytime.



Power Metering

TH-2141 monitors voltage, current and electricity consumption via smart phone App.

Remote Scheduling

TH-2141 can be programed "24hrs/7days scheduling" remotely by smart phone App in Wi-Fi coverage, 3G/4G/5G roaming area.

Remote Override

Keypads of TH-2141 can be "override" manually, or via a smart phone App from distance.

Applicants:

Timer TM-2141 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-2141 product is incorporated control.

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

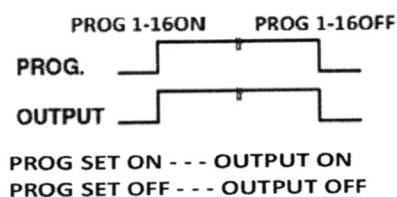
Working Ambient environment, Pollution degree (P2).

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

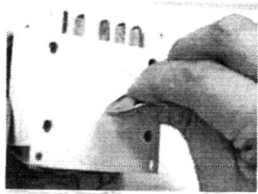
Specifications:

- * 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.

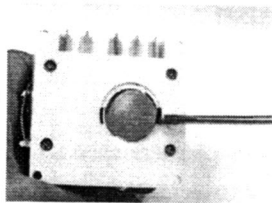
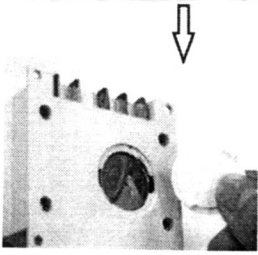
SAVE THIS INSTRUCTIONS

HOW TO REPLACE BATTERIES

For Model with Lithium Cr2032



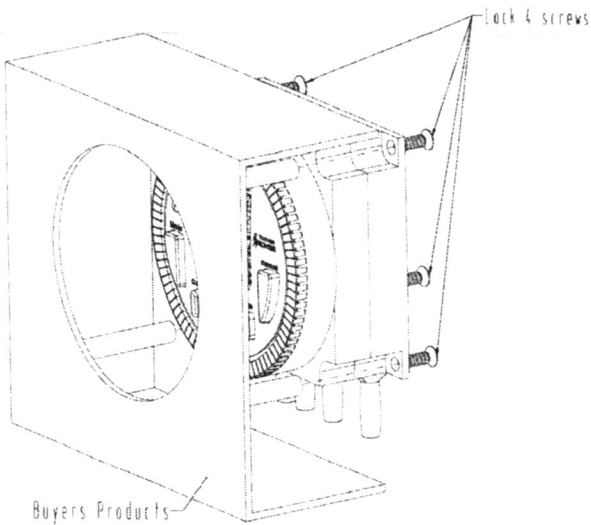
← To replace Battery



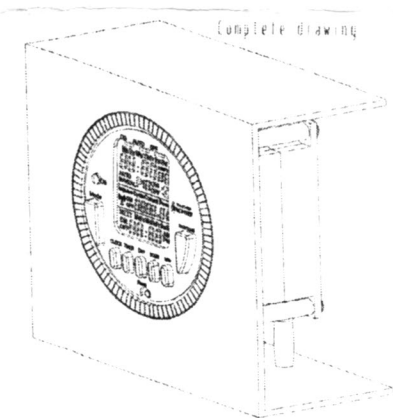
Disconnect or turn off power before attempting battery replacement. Any installation, service or maintenance of luminaires must be performed by a qualified professional.

HOW TO INSTALLATION

4 screws locked on the terminal machine.

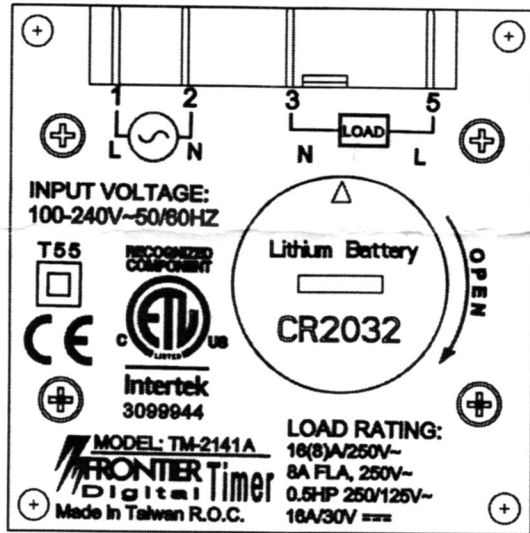


Buyers Products



Complete drawing

WIRING DIAGRAM



RECOGNIZED COMPONENT

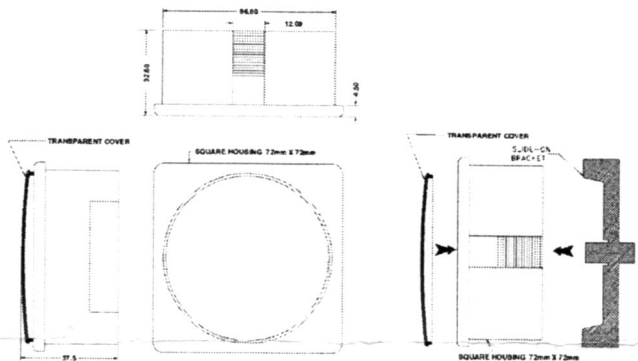


Intertek
3099944

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



Model Available for Choice:

item	TM-2141A	TM-2141	TM-2140A
Power Supply 100V-240V	●	●	●
WI-FI	●	●	●
Free Contact Output	●	●	●
Output Voltage	●	●	●
Power Monitoring	●	●	●
Safety Approval	●	●	●

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.

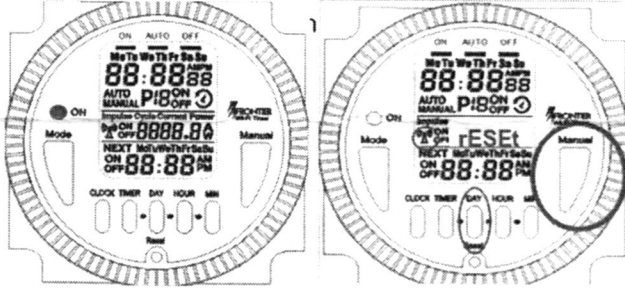
SAVE THIS INSTRUCTIONS

TM-2141A /TM-2141

Pairing and Setting procedure:

WiFi pairing:

1. Press "Mode" and a red LED indicator lights on.



WiFi pairing:

2. Press "manual" + "Day" for 5 seconds to reset the WiFi previous connection. WiFi icon will flash and be ready to be paired.

3. Use Mobile "Smart@IOT" App and register your email + code @ Smart@IOT App)

4. On the page of App Registration –

National code: ? ex: "+886+

E-mail address: ? ex: "info@ki-iot.com.tw"

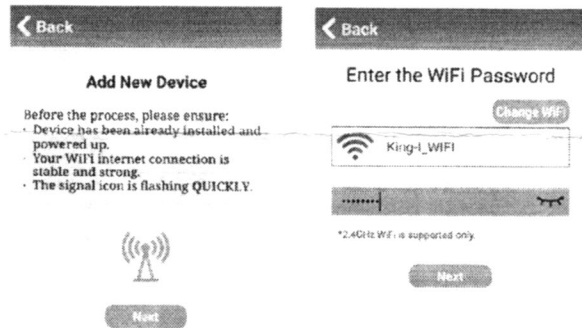
Code: ? ex: "King1234567"

5. New Device + into App's device list?



a. Add new device -> WiFi logo of App flashes and ready for pairing.

b. Click the "Next" and then



Help

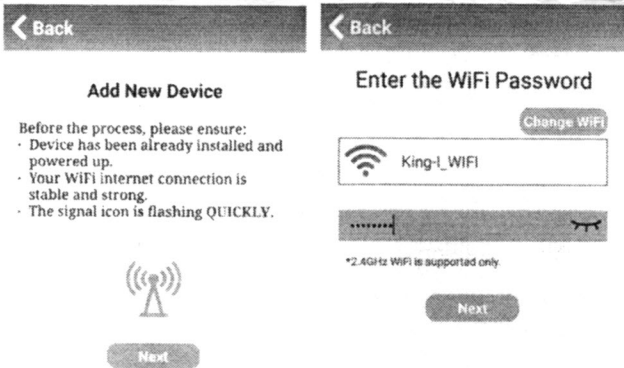
c. Key-in WiFi Code:

i. Select the router (must be a 2.4G WiFi environment)

ii. Key-in the access code of the selected local router.

iii. Pairing counting(0~120/120)..

Takes about 60 seconds to search for the TM-2141a in the WiFi environment.



Help

iv. If App can reach TM-2141A, then you will see the Icon of TM-2141A showed on the App.

v. Paired successfully. You may use the App to control TM-2141A remotely.

SAVE THIS INSTRUCTIONS

Program Setting procedure:

1. Time Setting:

Settings

Manual

Manually change the current output state (The picture shows a button composed of two icons)

The currently executing Preset

Time
The time displayed by Timer

Meter
Click to switch the display of voltage, current, and watts.

Mode
Click to switch Auto, ON, OFF

Time of the next output change (If not then this box does not show)

WiFi reception strength

3. Preset List:

Preset List

P01

ON OFF

8:00 AM 12:00 PM

P02

ON OFF

9:00 AM 8:00 PM

P03

ON OFF

1:00 PM 2:00 PM

P04

ON OFF

1:30 PM 2:30 PM

P05

Help

Preset List

A total of 16 groups: P01~P16 (click to open settings)

2. Preset Configuration:

Preset Configuration

Settings

Show settings for 7 days of the week support:

pitch to Zoom, double tap to Fit

Help

4. Program Setting:

P01 Setting

ON Settings

ON

Day Enable

Mo Tu We Th Fr Sa Su

7 8 9

5 00 01

A M

OFF Settings

OFF

Day Enable

Mo Tu We Th Fr Sa Su

11 12 1

39 00 01

P M

Confirm

Help

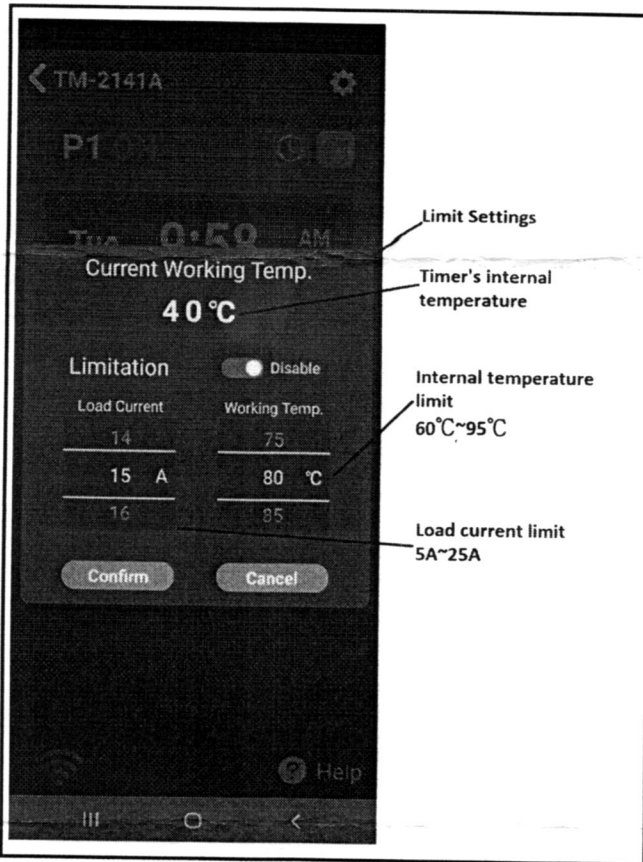
Day setting

Mon
Tue
Wed
Thu
Fri
Sat
Sun

Mon,Tue,Wed,Thu,Fri
Sat,Sun
Mon,Tue,Wed,Thu,Fri,Sat
Mon,Tue,Wed
Thu,Fri,Sat
Mon,Wed,Fri
Tue,Thu,Sat
Every Day

SAVE THIS INSTRUCTIONS

5. Current Working Temp.:



Limit Settings

Timer's internal temperature

Internal temperature limit
60°C~95°C

Load current limit
5A~25A

6. Output State During Counting:

