

Power Control Recorder User Manual

Model: PWX-103 Wiring Terminal Connects

Power Monitor Control Recorder PWX-103 Wire Connect



PWX-103 WIRING



Primestar Energy

WiFi Power Control 3 Outlets



WiFi Remote Control / Power Data Recording Charts

Updated: 2023.8.10

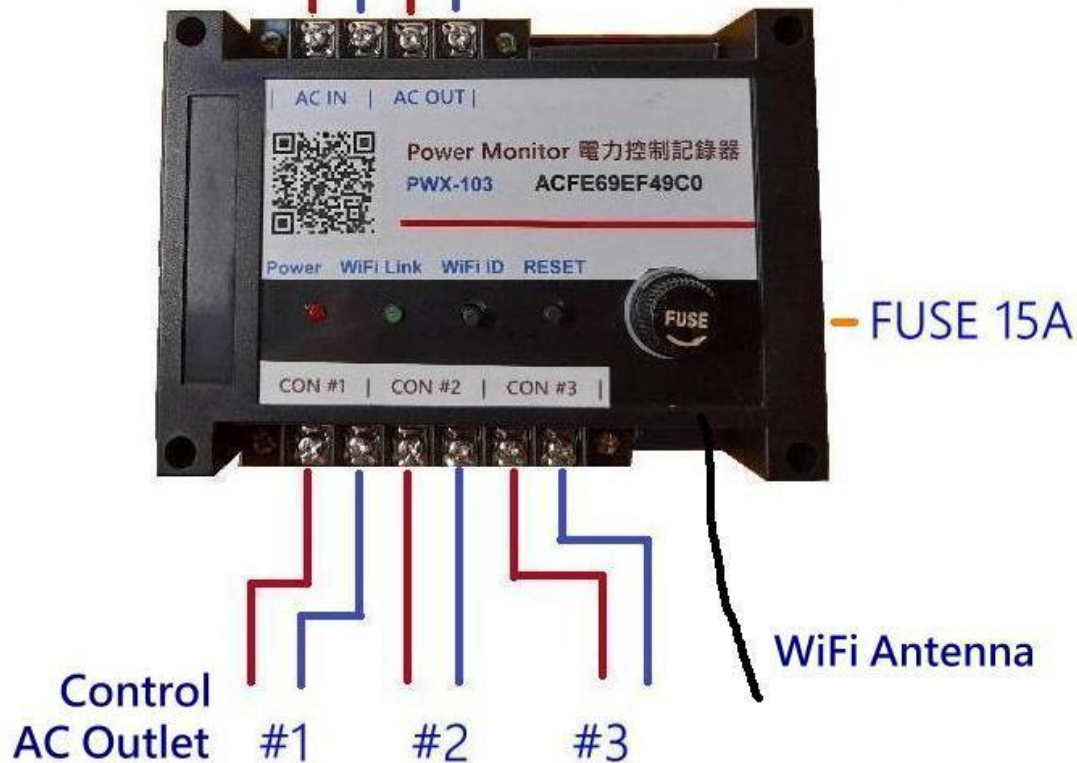
1. Introduction

AC INPUT 110V or 220V

LINE N (COM)

AC Output (Directly)

Blue = COM



- > **Turn Off the AC Power Line Breaker :** Please make sure the main power line already off-line for electrical operation safety issues.
- > **AC Power Input :** Connect the AC power to AC INPUT, AC110V as Line + N and AC220V for L1 + L2 to upper input terminal. And power outputs connect to down side AC Control Outlets #1, #2, #3.
- > **AC Direct Output :** Upper AC output is directly power output but all through C.T. Current Sensor includes all AC control outlets of power monitors.

- > **FUSE 15A :** The safety output load is AC110V 15A for 1.5KW and AC220V 10A for max. 2KW, or fuse will break-off.

- > **Blue Common Connect :** The Blue Lines in figuration shows the Common Connects of AC layouts.

- > **WiFi Antenna :** The additional WiFi antenna will increase 10% WiFi range, also user may cut-it off if necessary, there's internal antenna works for duel antennas.

- > **AC Control Outlets :** The down side 3-control outlets terminals for Con #1 / #2 / #3 are user controlled AC outputs.

- > **AC Power On-Line :** After make sure correct power connects and back AC power on, The red power LED will on, and green WiFi LED will flash when WiFi linking, that's system already working.

- > **Use Pad / Cell phone to setup PWX-103 for home WiFi SSID / Passwords first :** First time use need to input the home WiFi SSID / Password for PWX-103 then could allows for the WiFi data communications.

- > **Scan QR Code on top PWX-103 for quickly link :** After user inputs Home WiFi SSID setup completed, any time user may scan the on-top QR Code or use web shirt-cut path to visit the PWX-103 web pages all time.

(The WiFi IP address example like_ 192.168.1.25 was provided from home WiFi router when proceed WiFi SSID setup, to accept the PWX-103 WiFi data links.)

2. Installation

PWX-103 Power Monitor Control Recorder WiFi

6-Timer / 3- Remote Control Outlets

PWX-103 Wiring Connect

Mobile Phones

Primestar Energy

Desk Computer Browser

Web Design for both Computer, Pad and Mobile phone can be used

> 1. Connect the AC power line and power-on :

The model PWX-103 power line works for AC100V - 250V. When AC power-on, the Red LED On and WiFi link LED flashed that system ready works.

If it's not, please check the fuse and AC power inputs first.

> 2. Connect Control outputs to home automations :

The 3-Control outputs for user's home automation controls and power monitors, Through the web pages control PWX-103 after WiFi setup complete. User just link to PWX-103 web IP address or scan the Top QR Code of model ID then into the web control pages as shown.

> 3. Scan Top QR code for quick link web pages of PWX-103 :

After WiFi SSID & Password setup ready, User may scan top QR-Code for quick open browser and auto link to PWX-103 web control pages, The QR-Code contains PWX-103 chip ID that responds web link address. IP link address was get from the user's home WiFi routers.

3. First time WiFi Setting

- > **Clear the old WiFi setup :** User may clear the previous WiFi setting data by press the WiFi ID button for 10 seconds until the WiFi LED On then return to original status.
- > **Log-in the PWX-103 WiFi hot spot :** Turn on the WiFi hot spot search function, search the PWX-103 hot spot entrance like this ...



> “ESP32_XXXXX” The head ESP32 WiFi hot spot is the PWX-103 chip ID please select it for enter WiFi configuration.

> System will show there is no internet service but it is ok, we just only use it to input your home WiFi SSID & Password only needed.

> Scan the top QR-Code machine ID or link 192.168.4.1 for WiFi configuration_



> Scan the top QR Code of machine ID, use browser to open web page for WiFi Manager proceed WiFi configuration.

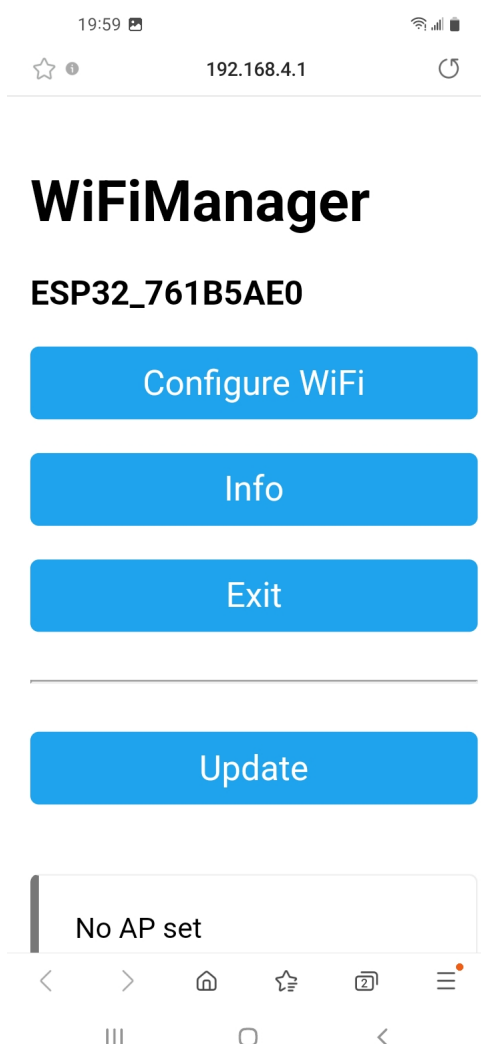
> Or directly type IP address_ 192.168.4.1 into WiFi Manager page.

> **NOTICES:**

Now procedures only available when user already find the ESP32 wifi services.

If it 's not showed, please back previously step to choice the ESP32_xxx for WiFi service again to complete web setting.

> Enter the ESP32 WiFi Manager and select <Configure WiFi > for PWX-103 for home WiFi router connect setting.



19:59



Mi_FH-2F



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ASUS



CHT 20



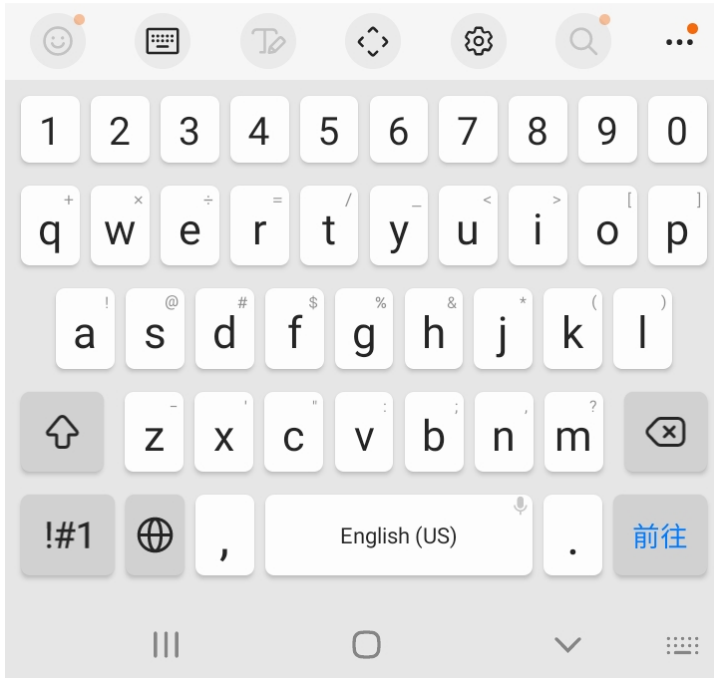
SSID

TP-LINK_60EE50

Password

.....

Show Password



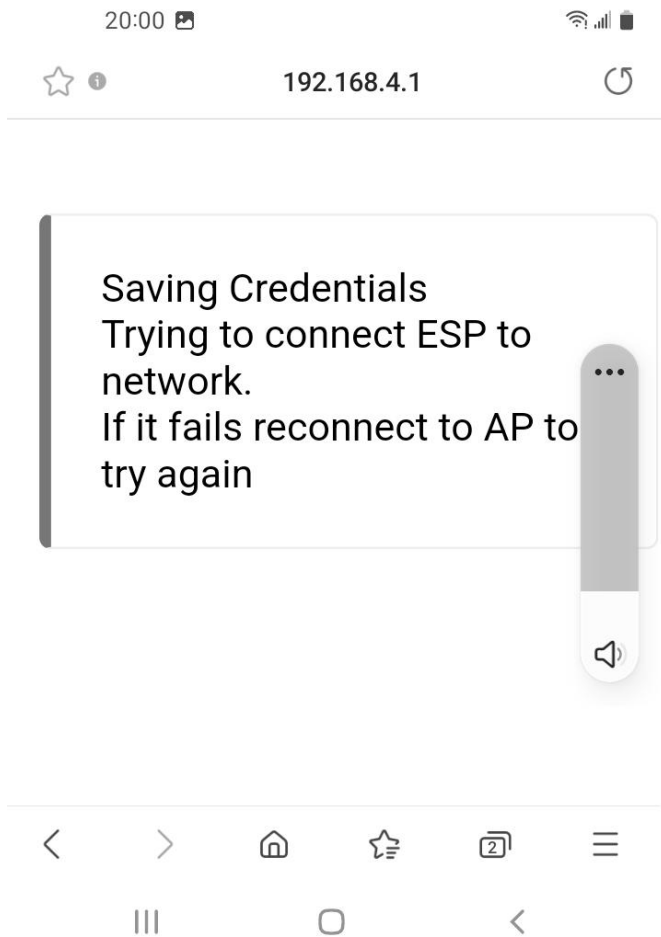
> Select your home WiFi SSID for PWX-103 to connect and enter the password then SAVED.

> **NOTICES:**

Now you selected WiFi hot spot that must be the same as later which user want to enter the PWX-103 web control functions.

If not in the same WiFi SSID router that may cause fire wall blocked and unable to link.

> The WiFi setup complete OK !



> Shown as this means WiFi Configure completed, when next time scan QR code it will go to the control page directly.

> When the WiFi configuration not success, or user and PWX-103 not in the same WiFi hot spot, it may cause blocked by fire wall and unable to reach PWX-103 web services.

> When too many WiFi hot-spot at home, be sure that user operates with PWX-103 in the same WiFi SSID router to make sure the web link allowed all the time.

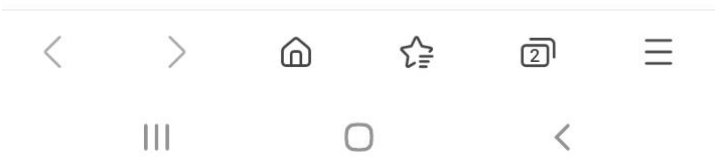
> Please repeat the upper procedure to complete the WiFi SSID & Password setting.

> Again scan top QR Code for into PWX-103's web function pages.

> When WiFi setting complete, after scan QR code it will show the connected IP address which get from home WiFi router, and into web page automatically in user's web browser.

> OK! Next to web function pages!





> WiFi Setup completed !

Congratulations, when you success enter the web control page of PWX-103, that means system had already work normally now.

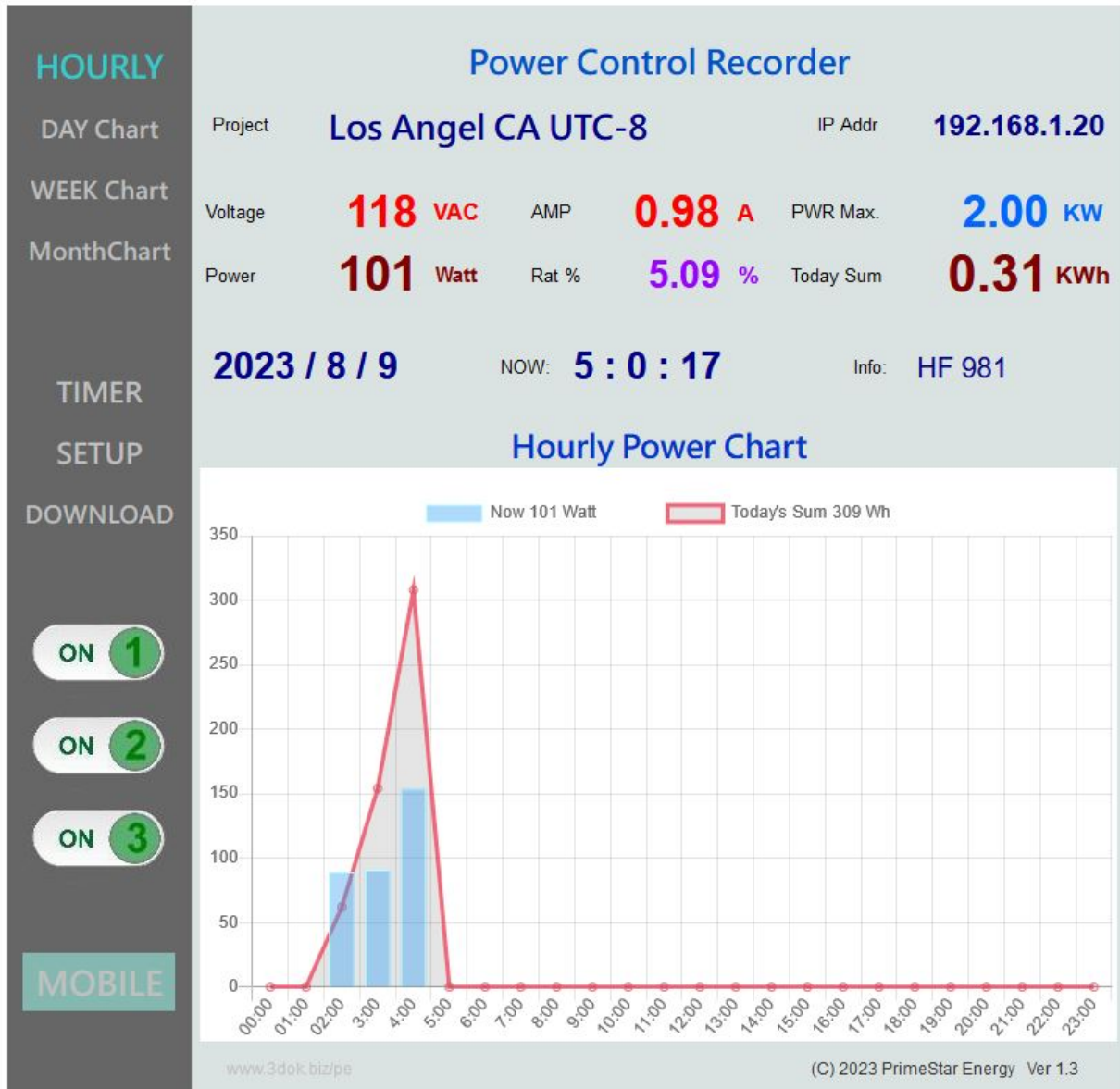
> Any time user just scan the QR code then into the web page directly like this.

Or user may save the web IP address which shows on the page_ 192.168.x.x as short-cut, then next time can into web page quickly.

> The IP address like_ 192.168.1.30 is the web address which get from users home WiFi router, so you may save the address as short-cut for directly open this address into the PWX-103.

> WiFi Configuration completed OK!

4. Web Page Control Functions



> **Hourly Power Chart** Home Page, Displays today's hourly power consumption bar chart, Blue is Power Watts, Red is Power Sum in Watts / Hours.

Left Controls: **HOURLY Chart** Home, Today / Hourly Power Chart

DAY Chart Goto Daily Power Chart







WEEK Chart Weekly Power Chart

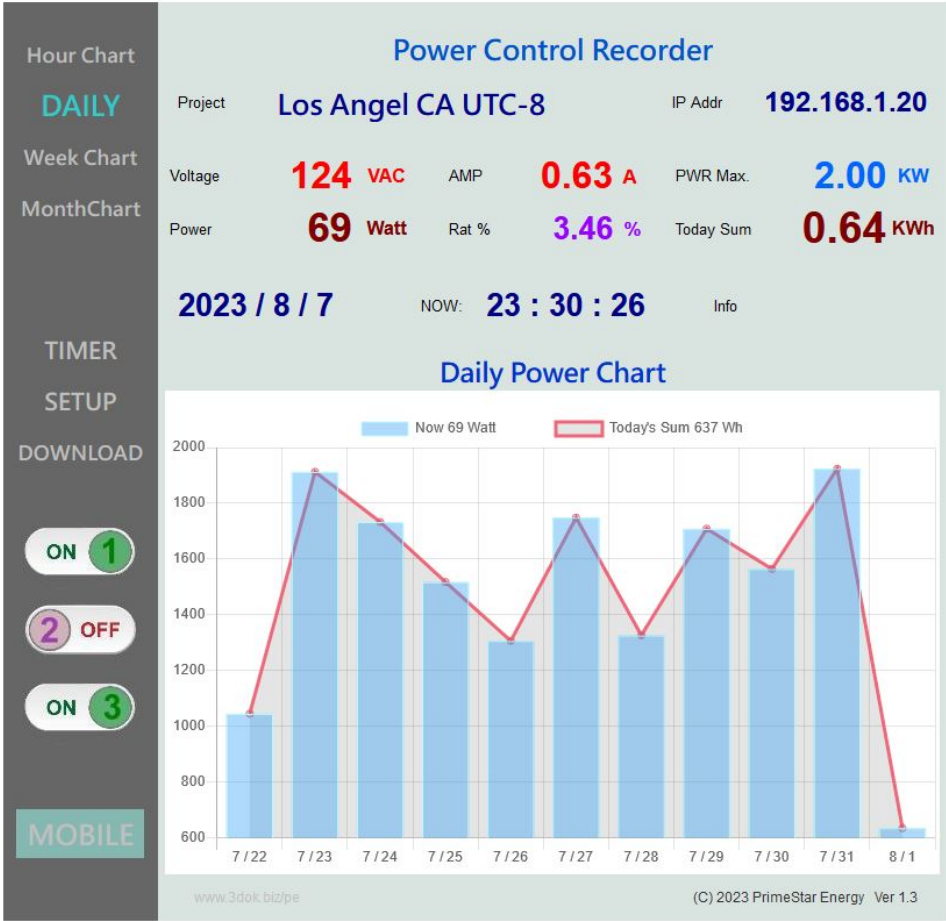
Month Chart Monthly Power Chart

- Timer** Six User Timer Setup Page.
- SETUP** User Information Setup Page.
- DOWNLOAD** Charts Upload / Download File Center.
- MOBILE** Cell phone Mobile pages.

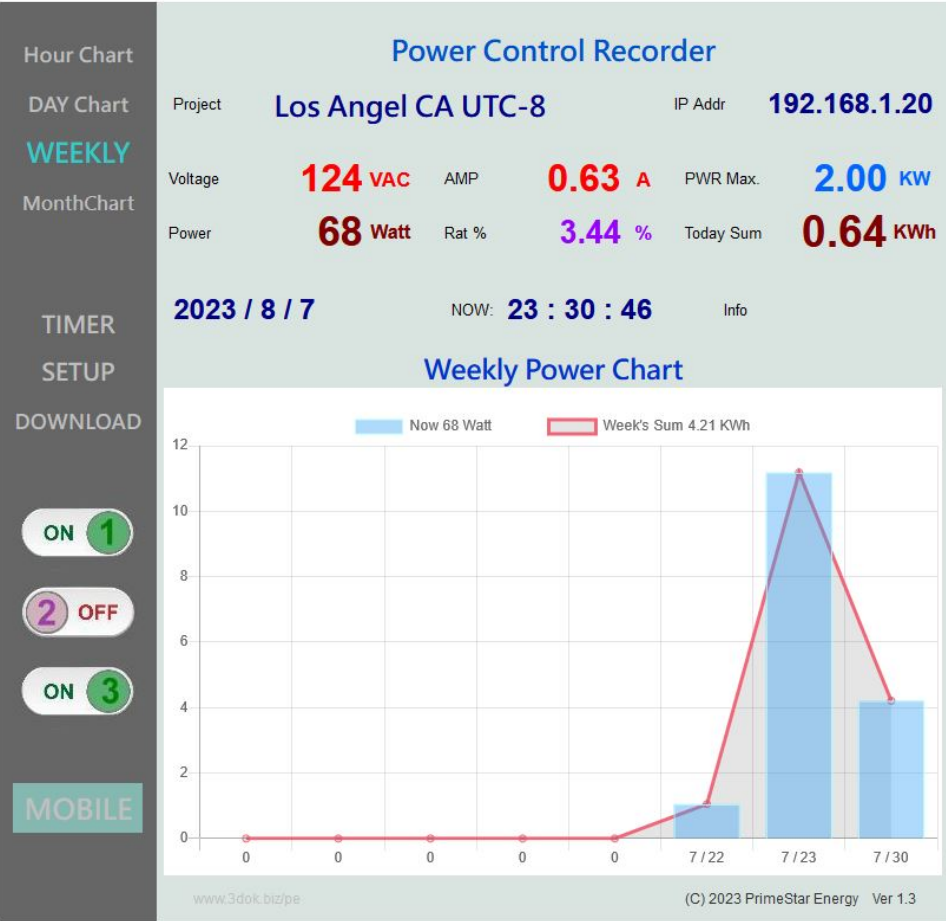
Upper Real-time data: **Project name:** User Home Automation Project name.

- IP Address** **192.168.1.14** Home web connect address.
- Voltage** Home AC power line voltage.
- AMP** Current of AC power line amperes.
- PWR** Maximum power supply value, default is 2KWh.
- Power** Measured power consumption of AC Watts now.
- Rat %** The Consumption / Maximum ration %.
- Today** Today's power consumption summary in KWh.

- 
 OR
 
 Manual On / Off Power Outlet #1
- 
 OR
 
 Manual On / Off Power Outlet #2
- 
 OR
 
 Manual On / Off Power Outlet #3



> Daily / Weekly power recorded charts,



Power Control Recorder

Project: **Los Angel CA UTC-8** IP Addr: **192.168.1.20**

Voltage: **124 VAC** AMP: **0.63 A** PWR Max.: **2.00 KW**

Power: **68 Watt** Rat %: **3.44 %** Today Sum: **0.64 kWh**

2023 / 8 / 7 NOW: 23 : 31 : 50 Info:

Timer Setup				
Timer Group	Control	HOUR	MIN	Timer Enable
Timer A	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable
Timer B	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable
Timer C	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable
Timer D	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable
Timer E	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable
Timer F	<input type="text" value="0"/>	ON	<input type="text" value="0"/> : <input type="text" value="0"/>	
		OFF	<input type="text" value="0"/> : <input type="text" value="0"/>	<input type="checkbox"/> Enable

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> **Timer Setup :** Six-isolate Timers A – F for User Definition, Controls Power outlets automatically by timer.

- Control** Which action control item of 1 – 3.
- ON / OFF** Action of Power_On & Power_Off time of HH : MM.
- Hour : Minute** Power outlet action time of Hour: 0 – 23, Minute: 0 – 59
(24 Hours format), if user sets like 99:99 means never operation.
- Timer Enable** Click checked for enable, unchecked for no operation.
- SET OK** After setup ok, press SET OK then complete work.

HOUR 小時

DAY 日均

WEEK 周均

Month 月均

Timer 定時器

SETUP 設定

DOWNLOAD

MOBILE

電力控制記錄器 Power Control Recorder

Project 名稱 **Taiwan 台灣 UTC+8** IP 連線位址 **192.168.1.22**

Voltage 電壓 **113 VAC** AMP 電流 **0.04 A** PWR 裝置容量 **2.00 KW**

Power 功率 **3 W瓦** Rat 供電比 **0.18 %** Today 本日累計 **0.00 kWh**

2023 年 8 月 9 日 現在時間: **21 : 19 : 44** 系統資訊:

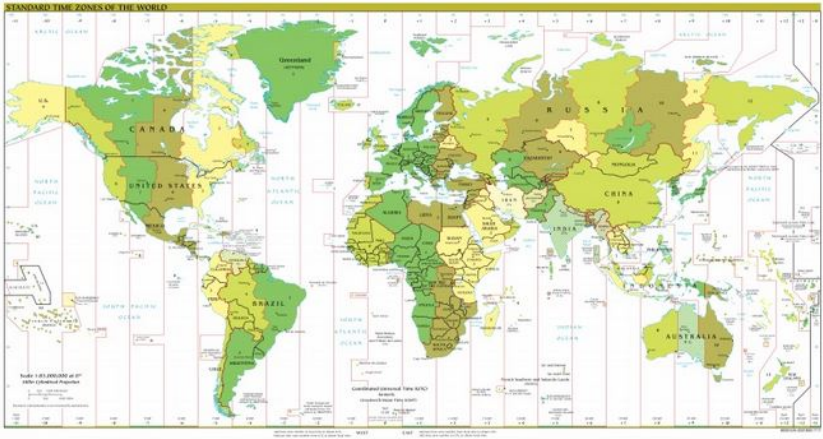
功能設定 Function Setup

Plant 案場名稱

Capacity 裝置容量 Watts 瓦

Time Zone 時區 SET 設定

Version 版本更新 **EnergyMonitor PWX -103 ver_1.35 23 / 07** RESTART



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> **User Setup :** For Modify / Save user's information.

- Project Name
 Enter the user's application name.
- Capacity
 Enter the maximum output capacity. Default is "2000" watts.
- Time Zone
 Setting the user's home time zone, for auto time correction.

> **SET OK :** Setup completed, Save user's data !

Power Monitor Data Recorder

Power Line **Los Angel CA UTC-8** IP Addr **192.168.1.15**

Voltage **110** VAC AMP **0.00** A PWR Max. **1.50** KW

Power **0** Watt Ratio % **0.00** % Today Sum **0.10** KWh

2023 / 5 / 27 NOW **21 : 47 : 18** CPU 0 : 12 : 18

Upload Download Center

Select File **選擇檔案** 未選擇任何檔案 **UPLOAD**
[< Select Power*.dat record file to upload >](#)

Download Power Data Records **Update**

Hour Chart [< PowerHour.dat >](#) **Download**

Day Chart [< PowerDay.dat >](#) **Download**

Week Chart [< PowerWeek.dat >](#) **Download**

Month Chart [< PowerMonth.dat >](#) **Download**

Delete All Records, Reset Original ! **RESET**

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> **Upload / Download File Center :** Hour / Day / Week / Month charts file services.

Select for Upload Upload files from user's computer to PWX-103.

SAVE Power Data Records Save & Update all files to now, before user download.

Hourly data < PowerHour.dat >	Hour / Today's hourly chart	File Download
Dialy data < PowerDay.dat >	Day Daily	File Download
Weekly data < PowerWeek.dat >	Week Weekly's	File Download
Monthly data < PowerMonth.dat >	Month Monthly's	File Download

Delete All Records, Reset ! Delete all data, reset to original status.

Power Control Recorder

Project: Los Angel CA UTC-8

0.63

68

0.64

Amp

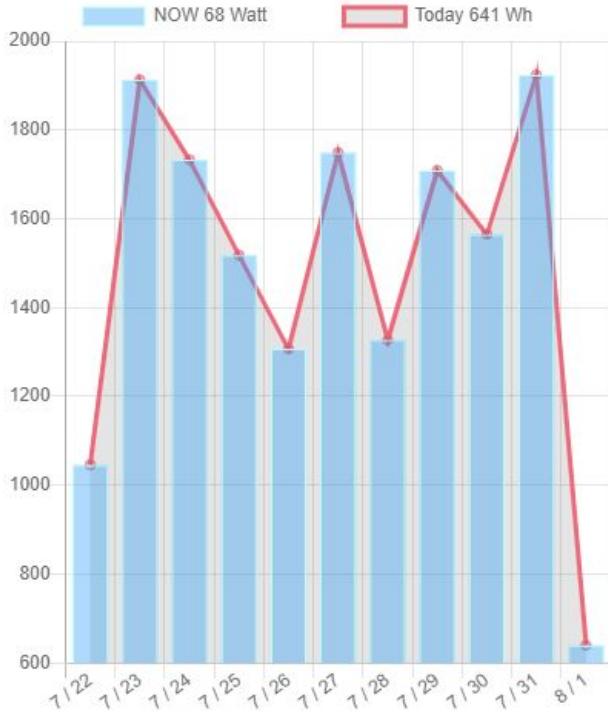
Watts

KWh

2023 / 8 / 7

23 : 33 : 58

Daily Power Chart



HOUR **DAY** WEEK MONTH SETUP

Power Control Recorder

Project: Los Angel CA UTC-8

0.63

68

0.64

Amp

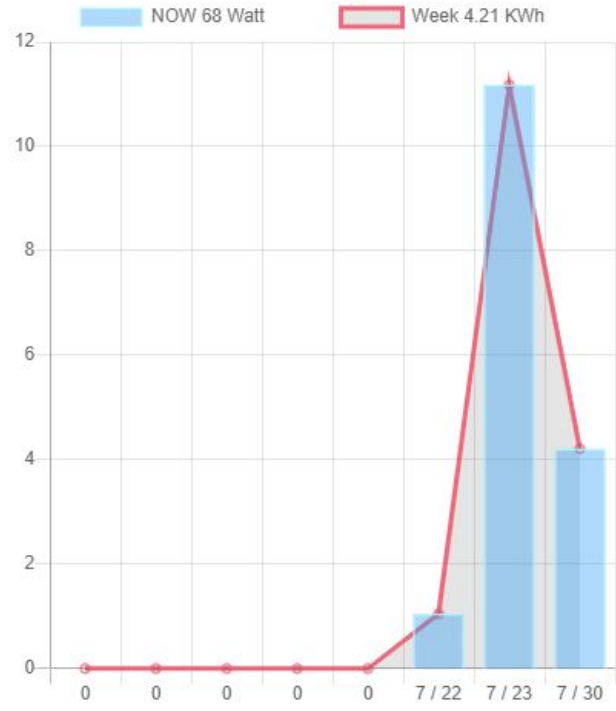
Watts

KWh

2023 / 8 / 7

23 : 34 : 22

Weekly Power Chart



HOUR **DAY** **WEEK** MONTH SETUP

> **Mobile pages :** For Cell phone straight screen, Hourly / Daily / Week / Month data graphs, real-time information.

> **When Web Page Lagged :** Sometimes when the WiFi signal weak or blocked, the web page responds will delay or slowly, User may try F5 reload to refresh page again or adjust WiFi location / antenna for better connection.

Power Control Recorder

Project: **Los Angel CA UTC-8**

0.63

Amp

69

Watts

0.64

KWh

2023 / 8 / 7

23 : 34 : 43

Function Setup

Project

Time Zone

Power 1 Timer Control **ON** 



Power 2 **OFF** 

Power 3 **ON** 

TIMER [Timer Setup](#)

HOUR **DAY** **WEEK** **MONTH** **HOME**

> [MOBILE Setup page](#) : Update / Save user inputs.

> **ON**  or **OFF**  Manual control On / Off power outlets.

> [Mobile Timer Setup](#) : Enter mobile timer setup functions..

5. Specifications

- Model :** PWX-103 Power Control Monitor Recorder (Wiring Connect)
- Measurement :** Internal C.T. Current Detector
- Work Voltage :** AC 100 – 250V / 1 -15 Amp / 10W – 2,000 Watts
- Consumption :** USB 5V / 5 Watt
- Dimension :** L= 140 x W=95 x H=50 cm
(L= 55 x W=37 x H=20 inch)
- Weight :** 300 - 450 gm / 1 pd

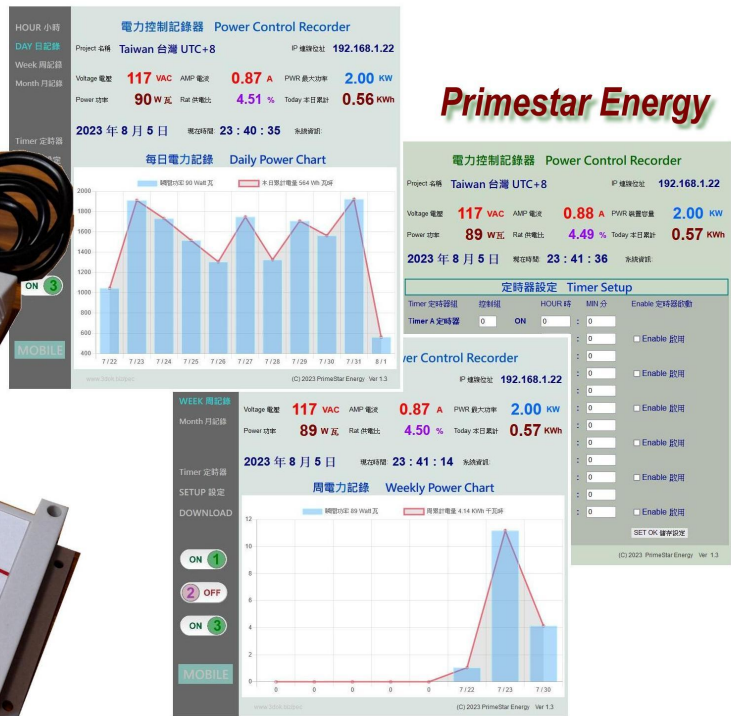
Power Control PWX-103 PWX-104 Monitor Recorder

Web Page Control, No need install APP

WiFi Power Remote Control

PWX-104 PNP
Plug & Play

PWX-103 Wire Connect



Hour / Day / Week / Month Power Graphic Charts

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Power Monitor Control Center
Remote Controls
IOT Data Communication

I.O.T. Internet Things

I.O.T. Internet Things / Web Communications

Solar Power Monitor SMX-101
Easy Install / WiFi Web Control

Power Monitor / Data Recorder

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2023 Future Energy Provider

Primestar Energy Seek for new generation power
Keep researching of clean energy
to provides a clean future world

CLICK & DROP FOR QR CODE CONTACT US

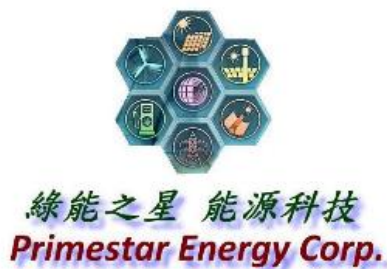
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Recycle Energy
Sport Power Generator
Wind turbines / Hydroelectric
IOT Power Monitor / Controls

Solar Plate
Solar Plate Design
Clean Energy House
Solar Electrical Car Chargers

Mobile Powers
DC / AC Outdoor Mobile Powers
300W - 10KW AC / DC System
House Solar Powers

Monitor System
Power Monitor Control Center
Remote Controls
IOT Data Communication



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