



User's Manual of Web monitor HMI-901

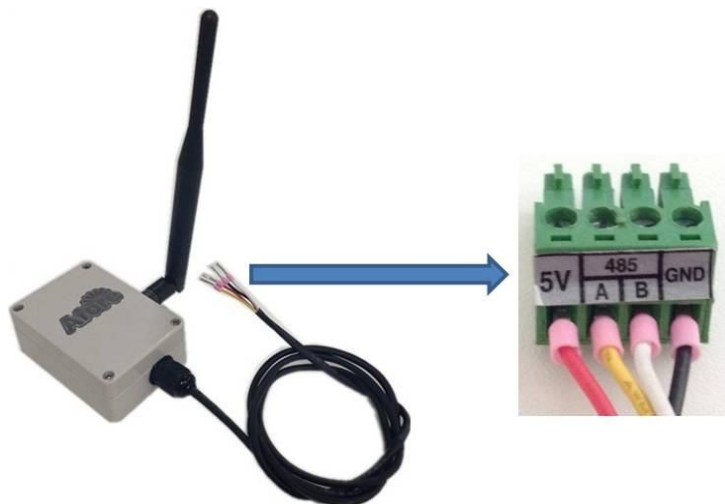


Afore New Energy Technology (Shanghai) Co., Ltd.

1. Wiring

1.1 Definition of different wire (picture 1-1):

Colour	Red	Black	Yellow	White
Definition	+5V	GND	485A	485B



1-1

1.2 Start wiring

- 1.2.1 Disconnect the inverter with DC PV source and AC grid source
- 1.2.2 Open the waterproof cover, and loosen the screws and waterproof connectors. (picture 1-2 and 1-3)

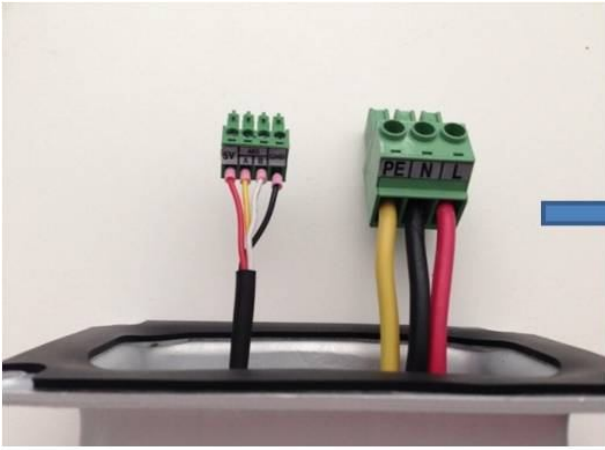


1-2



1-3

- 1.2.3 Put the communication wire and electric wire pass through the waterproof connector. (picture 1-4)
- 1.2.4 Connect the wires one by one according to the wire colors and the definition chart, and tighten the screws. (picture 1-4)
- 1.2.5 Plug in the wire socket into the positions (picture 1-5)



1-4



1-5

1.2.6 Close the waterproof cover, tighten the screws and the waterproof connector.(Picture 1-6)



1-6

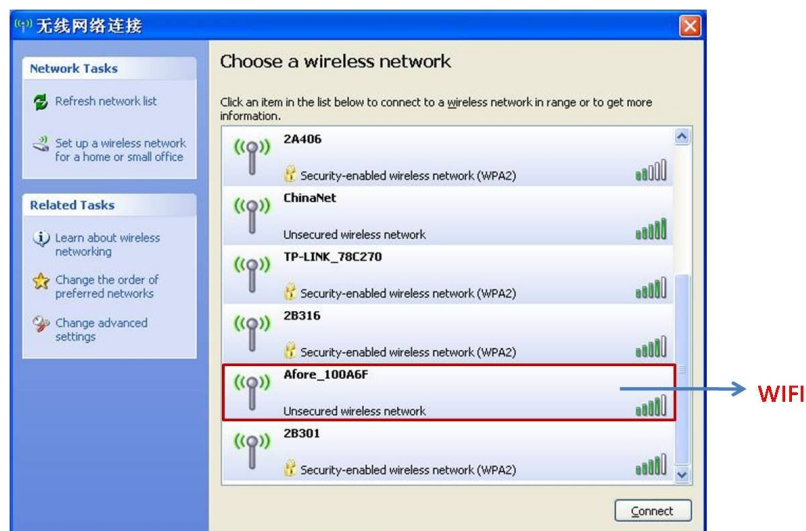
1.3 Notice

Please do not mistakenly connect the red and black wire in the communication port, otherwise the monitoring module might be damaged.

2 Wireless portal configuration

2.1 Make sure the inverter is properly working

2.2 Use laptop, cell phones or tablet PC to search WIFI signal of the monitor, the SSID name will be like "Afore_xxxxx", and no the password for this WIFI signal.(Picture 2-1)



2-1

2.3 Connect the Afore_xxxxxx WIFI signal

Visit the site 11.11.11.1 with your PC's web browser, below interface displays (Picture2-2), both the user's name and password are "admin"



2-2

Click "confirm " and move into next interface, copy the SN number "54.....e4" and save it in a file, this number will be useful when register in the monitoring website. (Picture 2-3)

SN:	54616dd6523c4be8bf475d0d9bb873e4
MAC:	C8-93-46-10-0C-3E
SSID:	Afore_wireless Find AP
Security mode:	AUTO
Key:	

2-3

2.4 Click Find AP, choose your home/office WIFI signal in the interface displays in this step (Picture 2-3), and input the password in the Key column (Picture 2-3). Please make sure the signal strength is at least 30% (Picture 2-4), otherwise the communication will be affected.

SSID	Signal
JECT3012	58%

2-4

2.5 Click "Save" to save this configuration and then click "Return".

2.6 Click "Reset" to reset the wireless module

2.7 Wait for 5 seconds to complete the process.

3 Account register

3.1 Use laptop or PC to connect onto internet.

Visit <http://www.aforeenergy.com/>, Click "Register" button in the Monitoring System User Login in the right side,

3.2 Then come up with "Afore Energy Remote Monitoring" log in interface (Picture 3-1), select

language in the bottom right corner, click “Sign up”, then interface like Picture 3-2 shows. Input user’s name, password, register email address and the SN number which had been saved in Chapter 2.3, click “sure to Register” to confirm and complete the register.



3-1

3-2

3.3 After register completes, login with user’s name and password, select your own language in the upper right corner if necessary. This setting will be saved to this account number, when log in next time, no need to set up again.

4 User’s instructions

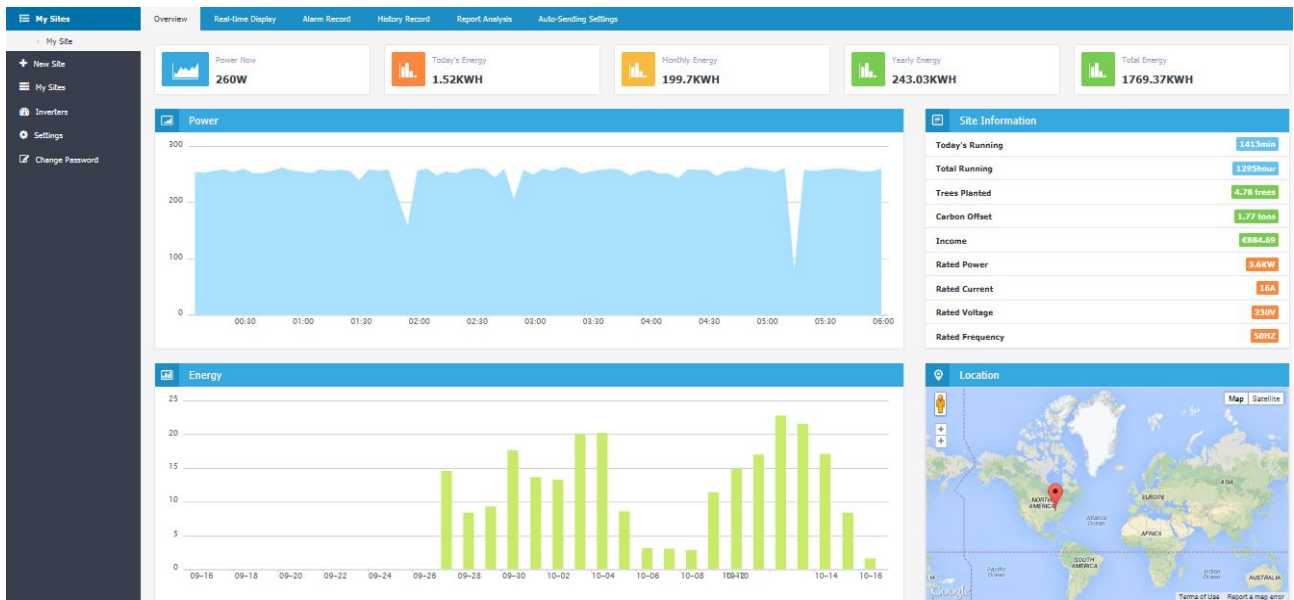
4.1 Log in

Log into the monitoring system with registered user’s name and password, the system will automatically generate PV system monitoring site, called “my sites” (Picture 4-1)

Name	Power Now	Today's Energy	Total Energy	Income	Position	Operation
AforeTest	2414W	20.16KWH	4123.88KWH	¥4123.88	中国 上海 联航路1588号	View Edit Delete

4-1

Click “view”, the PV system’s operational data could be viewed and displayed now. (Picture 4-2)



4-2

4.2 Edit, add sites and add inverters by users

In Afore Energy Remote Monitoring System, users not only can view their own sites, but can also edit. Click “Edit”, move to the interface shown as Picture 4-3, users could edit content such as PV system name, location, local feed-in tariff, PV system introduction, and can also select PV system location on the map.

The 'Edit Site' interface includes the following fields:

- Name:** AforeTest
- Country:** China
- Province:**
- City:** Shanghai
- Address:** 1588 Lianhang Rd
- Power Tariff:** 1.00 RMB ¥
- Remark:**
- Location:** A map showing the site location in Shanghai, China.
- Sort No.:** 1

Buttons: Save, Cancel

4-3

The “Sort No” in the bottom shows the current PV systems position sequence, the smaller number rank higher position of the list. Input the relevant information and save the settings to complete the PV system new site adding.

If users need to monitor more than one PV system, click “+New site” the similar interface of editing site shows, also type in name, location information etc. The only difference is users need to input the SN number of the inverter installed in this PV system (Picture 4-4)

The 'Add New Inverter' interface includes the following fields:

- SN:**

Buttons: Save, Cancel

4-4

If users need to add more than one inverter in the monitoring system, click “Inverters” in the left column, interface shown as Picture 4-5. Users could edit current inverter or add new inverters with similar steps. Here we will introduce “Add New Inverter” as an example

Inverters Add New Inverter						
Site Name:AforeTest						
SN	Name	Rated Power	Rated Current	Rated Voltage	Rated Frequency	Operation
33643e0bf0ef42dfbde66a9a98885e15	Afore-Inverter1	3.6KW	16A	230V	50HZ	Edit Delete
c6084b9b085b4a0e91b03aa8d12a7df3	test2-Inverter2	2KW	9A	230V	50HZ	Edit Delete

4-5

Click “Add New Inverter”, type in relevant information and click “save to” complete the adding. (Picture 4-6)

My Sites

AforeTest

+ New Site

My Sites

Inverters

Settings

Change Password

Inverters

Add New Inverter

Inverter Name

AforeTest

SN

Name

Rated Power

 KW

Rated Current

 A

Rated Voltage

 V

Rated Frequency

 HZ

Remark

Sort No.

Save

Cancel

4-6

4.3 User's information setting

Users can edit own account information, click “Settings” in the left column (Picture 4-7).

My Sites

AforeTest

+ New Site

My Sites

Inverters

Settings

Change Password

Settings

Username

afore

Fullname

Afore New Energy

Telephone

Email

Address

Remark

Save

Reset

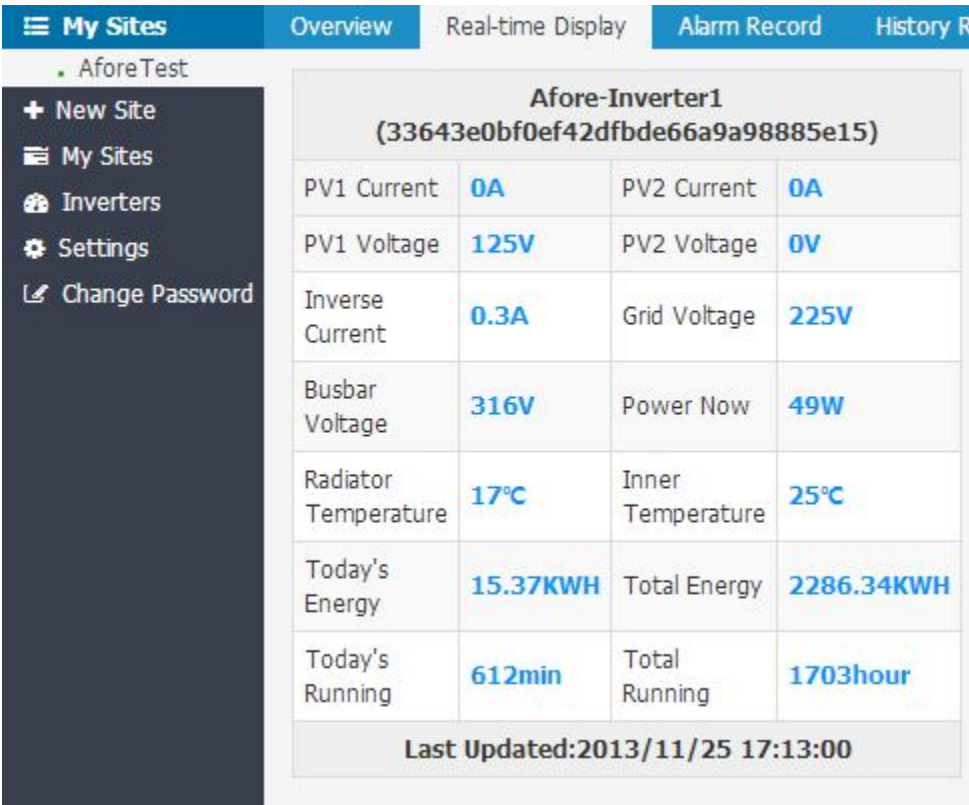
4-7

4.4 PV system management

Afore Energy Remote Monitoring System provides abundant functions of PV system monitoring and management.

4.4.1 Real-time Display

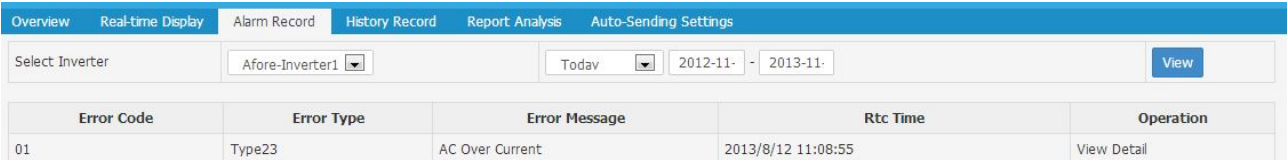
Real-time display provides users with basic real-time working data information of the PV system, and enable the users quickly view his own PV system working status. Select a site, click “view”, and choose “Real-time display”(Picture 4-8)



4-8

4.4.2 Alarm Record

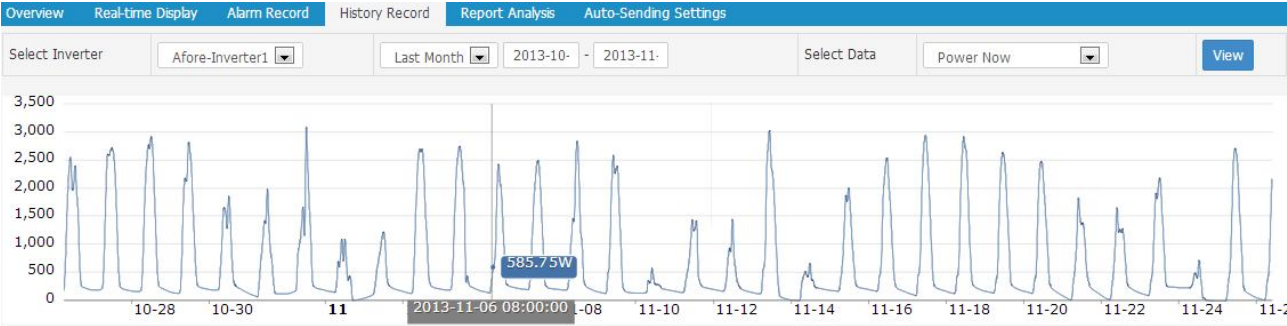
In the Alarm Record page, users could check the relevant Alarm Record under different inverters and the fault happening time (Picture 4-9)



4-9

4.4.3 History Record

In History Record page, users could check the curves of historical data and could also check specified time period of certain operation parameters, such as “Power now” (Picture 4-10)



4-10

4.4.4 Report Analysis

In the Report Analysis page, users could check the PV system daily, monthly, and yearly report.

Overview		Real-time Display		Alarm Record		History Record		Report Analysis		Auto-Sending Settings		
Report Type	<input type="radio"/> Daily Report <input checked="" type="radio"/> Monthly Report <input type="radio"/> Yearly Report							Select Time		<div>2013-</div>	<div>View</div> <div>Export</div>	
	Date							Energy				
	2013-11-01							22.33KWH				
	2013-11-02							9.14KWH				
	2013-11-03							9.69KWH				
	2013-11-04							27.22KWH				
2013-11-05							25.55KWH					

4-11

4.4.5 Auto-sending Settings

In this page, users could set faulty report automatic sending by day, week and month. See Picture 4-12, select the “on” option of the specific report, and type in the email address need to receive this report, then Save the setting, then users could receive the report regularly.

My Sites		Overview	Real-time Display	Alarm Record	History Record	Report Analysis	Auto-Sending Settings
AforeTest							
Afore-Inverter1 (33643e0bf0ef42dfbde66a9a98885e15)							
Alarm Notification	<input checked="" type="checkbox"/>	user@email.com					
Daily Report	<input type="checkbox"/>	On					
Weekly Report	<input type="checkbox"/>	On					
Monthly Report	<input type="checkbox"/>	On					
test2-Inverter2 (c6084b9b085b4a0e91b03aa8d12a7df3)							
Alarm Notification	<input type="checkbox"/>	On					
Daily Report	<input type="checkbox"/>	On					
Weekly Report	<input type="checkbox"/>	On					
Monthly Report	<input type="checkbox"/>	On					
Save							

4-12



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