Growatt

powering tomorrow

Wi-Fi WL-WF

User manual

CONTENT

1 User Manual Information

1.1 Copyright Statement

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Copyright No. is G1.0. Growatt reserved the final right of interpretation of this manual. The product parameters, appearances and packages are subject to change without notice. Readers are cautioned, however, that Growatt reserves the right to make changes without notice and shall not be responsible for any damages, including indirect, incidental or consequential damages, caused by reliance on the material presented.

1.2 About Manual

Distinguished users, thank you very much for your trust in our Wi-Fi Module product, which is developed and manufactured by our R&D department. We sincerely hope it can satisfy your need, also, we're glad to receive your suggestions on improving our product. The target of the manual is to provide the detailed product information, installation, operation and maintenance.

1.3 Target Group

The user manual is applied for technicians and common users to operate and maintain the Wi-Fi Module. The readers should be acquainted with some computer network knowledge and operating skill.

1.4 Guideline

Before using the Wi-Fi Module, please read the manual carefully. In the meantime, please keep it well, lest maintenance staff may couldn't find it later. All the content, pictures, logos, symbols are reserved. No part of this document may be transmitted in any form without the prior written permission of our internal staff. The content of manual could be changed. Every attempt has been made to make this document complete, accurate and up-to-date. If there are any differences between the contents of the instruction and the product, please regard the actual one as the truth. You can download the newest version from our website www.growatt.com .

1.5 FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement
To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body: Use only the supplied antenna.

2 Description

Wi-Fi Module is a wireless device used to monitor inverter. It transmit the data collected from the inverter to the server via router. User could get access to the inverter data by inquiring the server.
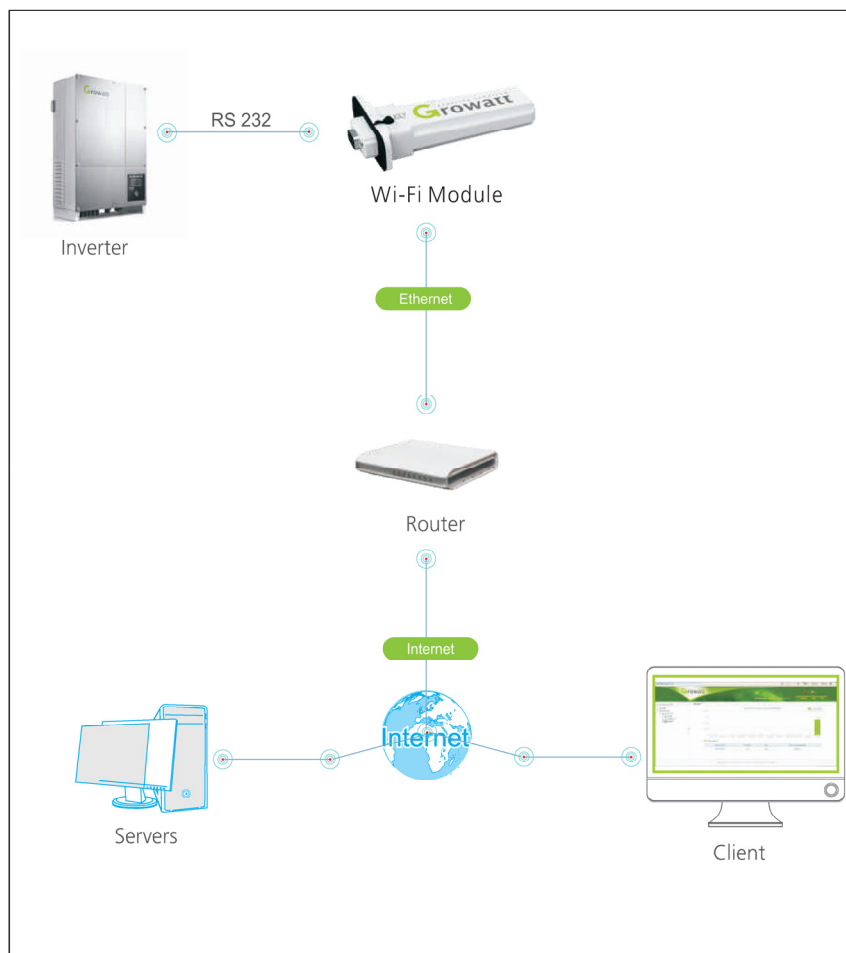
3 Operation

3.1 Connecting Wi-Fi Module with Inverter

If the RS232 port of Growatt inverter is compliant with the specification (1) as following picture, please plug the Wi-Fi Module to the inverter directly via the RS232 and lock screw.

If the RS232 port is compliant with the specification (2), please pry open the rubber plug in the waterproof cushion, then plug the Wi-Fi Module to the inverter and lock screw.
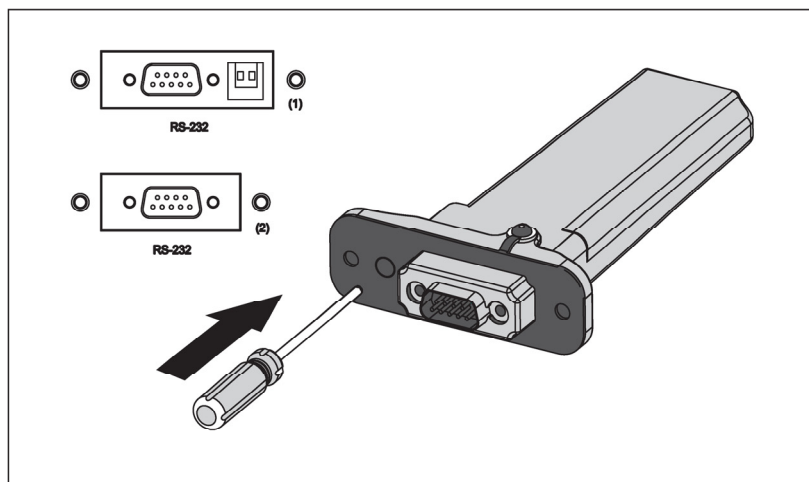
Wi-Fi Module is connected to inverter via RS232. Plug Wi-Fi module into inverter, and lock screw.

3.2 Setting of Wi-Fi Module

Wi-Fi Module can be configured via access to Wi-Fi Module IP address.

3.2.1 Selecting Wi-Fi Module as wireless network

Choose the wireless network set up by Wi-Fi Module.

Note: the computer should contain wireless network adapter.
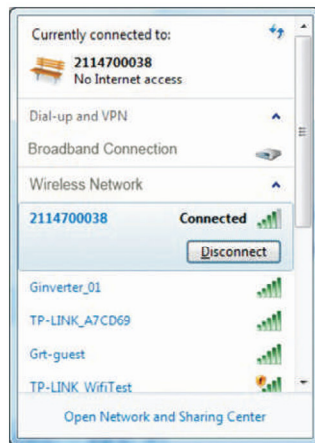


3.2.2 Setting Wi-Fi Module parameters

Start the web browser and enter default IP address "192.168.10.100" of Wi-Fi Module in the address bar. (Note: please set the IP address of computer as obtaining automatically or in the same network segment of "192.168.10.100"). The login interface is shown below (the default user name is admin, and the password is admin).

After login, the interface is shown below
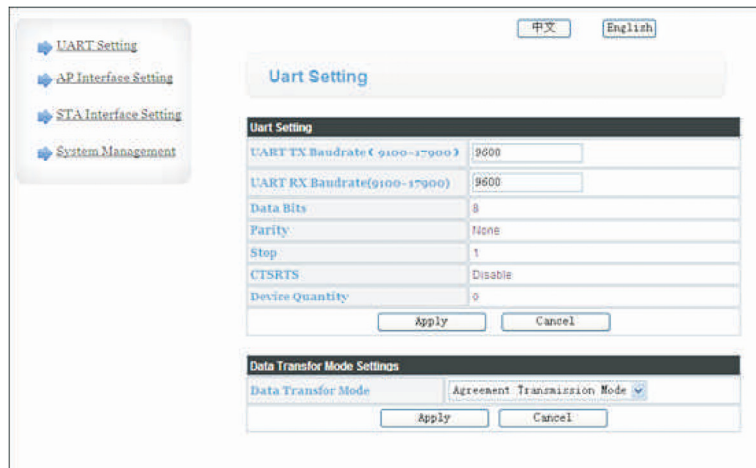
Click on "STA Interface Setting". In the new interface, click on "search".
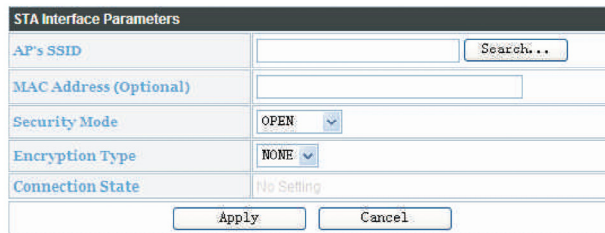
The searching results are shown below

	SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
○	M3test-000	ac:cf:23:0f:69:c0	0%	1	NONE	OPEN	Infrastructure
○	M3test-E01	ac:cf:23:0f:6a:14	100%	1	NONE	OPEN	Infrastructure
◉	Ginverter_01	b0:48:7a:3b:a6:42	0%	3	AES	WPA2PSK	Infrastructure
○	AH12010002	ac:cf:23:0f:67:e0	10%	3	NONE	OPEN	Infrastructure
○	ChinaNet-54BI	ac:6e:1a:73:1d:a4	0%	6	TKIP	WPA2PSK	Infrastructure
○	M3test-004	ac:cf:23:f0:62:3c	44%	11	NONE	OPEN	Infrastructure
○	2114700037	ac:cf:23:0f:69:34	100%	11	NONE	OPEN	Infrastructure
○	TP-LINK_WifiTest	ec:17:2f:b9:e5:4a	44%	11	NONE	OPEN	Infrastructure
○	2114700013	ac:cf:23:0f:69:8c	100%	11	AES	WPA2PSK	Infrastructure

Apply   Refresh

Select the SSID, Security Mode, Encryption Type, and enter Pass Phrase.

STA Interface Parameters		
AP's SSID	Ginverter_01	Search...
MAC Address (Optional)		
Security Mode	WPA2PSK	
Encryption Type	AES	
Pass Phrase(8~32 Characters)	12345678	
Connection State	No Setting	
	Apply	Cancel

Click on "Apply", the browser jumps to the new interface. Then click on the "restart".

中文　English

➡ UART Setting
➡ AP Interface Setting
➡ STA Interface Setting
➡ System Management

Set Successfully, Restart to use new setting

Restart Immediately

The default server address is server.growatt.com. Please confirm the default address is correct.
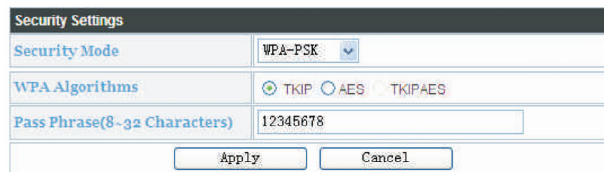
Network Setting	
Server Address(IP Address or Domain Name)	server.growatt.com
Apply	Cancel

3.2.3 Setting the Network Key of Wi-Fi Module

When Wi-Fi Module gets access to the router, Internet could be available via the wireless network set up by Wi-Fi Module without any permission. User could set the network key to ensure the network security.

Note: this operation relates to the network security, you should carry out it to encrypt your network.

Click on the "AP Interface Setting" → choose "Security Mode" and "WPA Algorithms" as following picture → set the "Pass Phrase", e.g. 12345678.

After setting, restart the Wi-Fi Module. The network set up by the Wi-Fi Module would be available only after typing in the network key.

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3.2.4 Acquiring the Serial Number and Check Code

Click on the "System Management", in "Product Information" field, acquire serial number and check code. When user logs in the Shine server, the serial number and check code are required to register the data logger. After registration, user could check up the inverters' status via Shine server.

Product Information	
Version	1.0
Serial Number	2114700038
Check Code	3E242

3.3 Registering the Wi-Fi Module

3.3.1 Registration and login

1. Enter http://server.growatt.com in the web browser. If you log in for the first time, please register in advance.
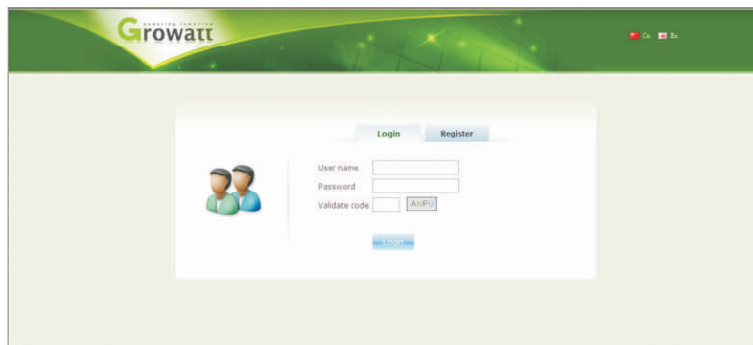
2. Create new account. Please following the prompt, enter the required information.

3.3.2 Creating new plant

1. After registration, the web browser jumps to the main interface of Shine Server automatically.

2. Click on "New plant".

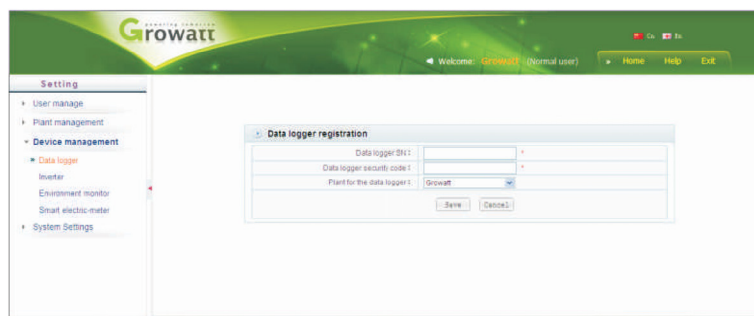3. Enter the plant information, click on "Save".
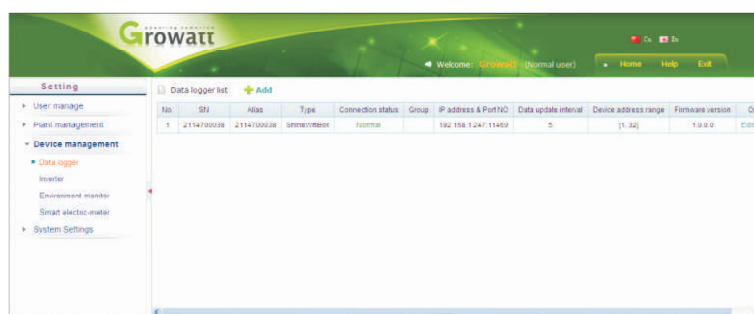
3.3.3 Adding Wi-Fi Module

1. Click on "Setting", select "Device management".
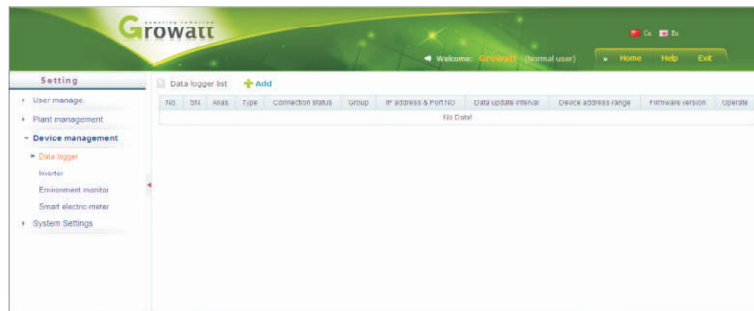
2. Click on "Add" on the right of the setting list.

3. Enter the serial number and check number of the Wi-Fi Module. Select the owned plant, then click on "Save".

4 Maintenance

4.1 Administrator setting

The default account and password both are "admin". You can modify them.

Adminstrator Settings	
Account	admin
Password	admin
	Apply Cancel

4.2 Restart Module

If the operation of restart is required, please click on "Restart".

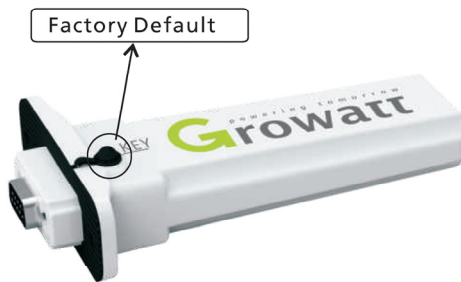| Restart System	
Restart System	Restart

4.3 Load Default

1. If you want to restore the factory setting, please click on "Load Default".

Load Default	
Load Default	Load Default

2. You can also restore the factory setting by pressing the "KEY" button for 5 s . (Note: the rubber plug should be removed first).

Factory Default

4.4 Firmware Update

The update of Wi-Fi Module can be carried out by web operation. Click on "browser", and select the new firmware. Click on "Apply". After updating successfully, the Wi-Fi Module will restart.

Update Firmware		
Location:	[ ]	browse
	Apply	

5 Contact

If you have technical problems concerning our products, please contact Growatt.

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