



User Manual

Talent-MG2-WU

Talent-MG2-GU

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Read Me First

Dear customer, thank you for choosing the TSOL-M Series micro inverter from TSUN-NESS. We hope you will find our products meet your needs for renewable energy. Meantime, we appreciate your feedbacks regarding our products.

This manual contains important instructions for Talent-MG2 Monitoring System. For safety, only qualified technician, who has received training or has demonstrated skills can install Talent-MG2 Monitoring System under the guide of this document.

Warning

- Only qualified personnel should install, troubleshoot, or replace the monitoring system.
- Before installation, check the unit to ensure absence of any transport or handling damage, which could affect insulation integrity or safety clearances.
- All repairs should be carried out using only qualified spare parts, which must be installed in accordance with their intended use and by a licensed contractor or authorized TSUNESS service representative.

Contact

If you have technical problems about our products, contact the TSUN Service line.

TSUNESS Co., Ltd

Tel: +86-573-8466 8569

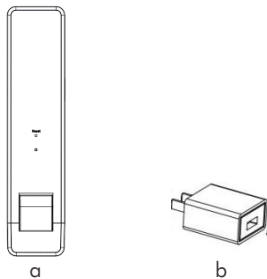
E-mail: sales@tsun-ess.com | www.tsun-ess.com

Add: Building E1, No. 555, Chuangye Road, Dayun Town, Jiashan County,
Jiaxing City, Zhejiang Province, China

Talent-MG2 Monitoring System

The Monitor Device is the key component in Talent-MG2 monitoring system. It is the relay station of the monitoring system, which operates between the microinverters and the Monitoring Server. The Monitor Device communicates with the microinverters in the system via 2.4G RF wireless to collect the data and status of the microinverters in the system. At the same time, Monitor Device connects to the Internet through WIFI (Talent-MG2-WU) or GPRS (Talent-MG2-GU), which realizes the information exchange with the monitoring service and sends all the running data of microinverters and status of the system to the monitoring server. It receives the control commands from the monitoring server and sends the data to the microinverters in the system to achieve remote operation and maintenance.

Packing List



Object	Description	Quantity
a	Monitor Device	1
b	Adaptor	1

Product Appearance



Object	Description
A	USB Connector
B	LED
C	Reset Hole
D	SIM Card Slot

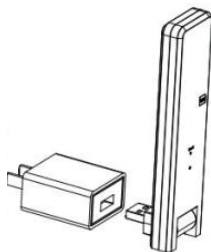
* Only Talent-MG2-GU has a SIM Card Slot.

Technical Data

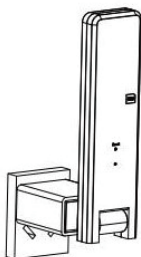
Model	Talent-MG2-WU	Talent-MG2-GU
Communication to Microinverter		
Signal	2.4G RF	
Maximum Distance(Open Space)	100m	
Monitoring Data Limit	99 panels	
Communication to Server		
Sample Rate	Per 15 minutes	
Signal	WIFI(2.4GHz)	GSM
Power Supply (Adapter)		
Type	Adapter with USB port	
Input Voltage/Frequency	100 to 240V AC / 50 or 60Hz	
Output Voltage/Current	5V DC / 2A	
Power Consumption	1.0W(typical), 5W(maximum)	
Mechanical Data		
Ambient Temperature(°C)	-20~+55	
Dimensions (W*H*D mm)	143*33*12.5	
Weight (kg)	0.1	
Mounting System	Plug-in	
Indicator Light	LED	

Installation

1. Plug the USB connector into the adapter.



2. Plug the adapter into a wall socket or a socket on the table.



*The wall socket or the table should be more than 1 meter above the ground.

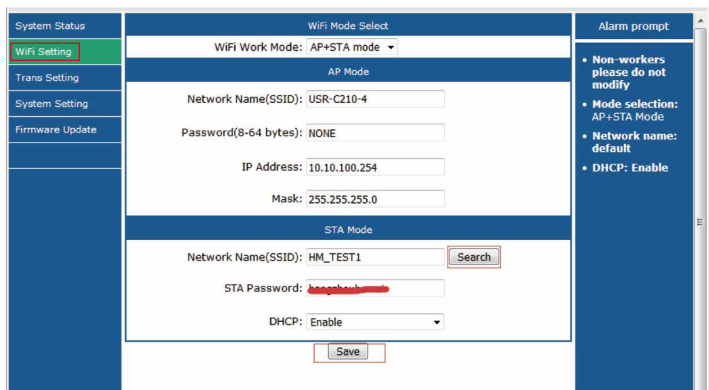
*The table should not be metal or concrete structure (to prevent the effects on 2.4G RF signal).

3. Place the monitoring device as far as 90 degrees vertically upwards.

*The distance between the monitoring device and the router should be as close as possible.

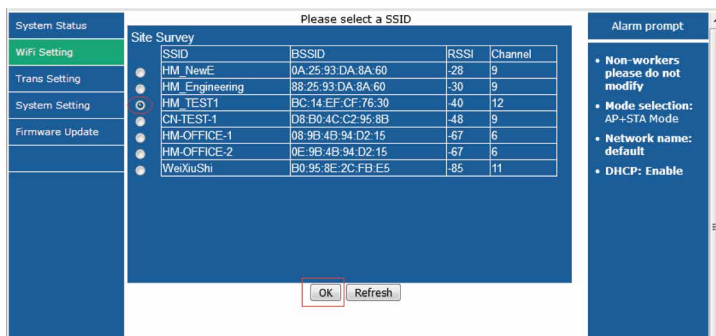
Wi-Fi Configuration (Only Talent-MG2-WU)

1. Connect the wireless name of MG2-WU via computer or mobile phone.
2. Open the browser and enter 10.10.100.254 to open the Wi-Fi configuration page. The username and password are 'admin' by default.
3. Click the Wi-Fi parameter menu on the left menu bar to enter the Wi-Fi parameter configuration.



The screenshot shows the 'WiFi Mode Select' configuration page. The 'WiFi Work Mode' is set to 'AP+STA mode'. Under 'AP Mode', the 'Network Name(SSID)' is 'USR-C210-4', 'Password(8-64 bytes)' is 'NONE', 'IP Address' is '10.10.100.254', and 'Mask' is '255.255.255.0'. Under 'STA Mode', the 'Network Name(SSID)' is 'HM_TEST1', 'STA Password' is masked with red dots, and 'DHCP' is set to 'Enable'. A 'Save' button is at the bottom.

4. Click the search button in the lower right corner, select the Wi-Fi name to be connected to the monitoring device.



The screenshot shows the 'Site Survey' table with the following data:

SSID	BSSID	RSSI	Channel
HM_NewE	0A:25:93:DA:8A:60	-28	9
HM_Engineering	88:25:93:DA:8A:60	-30	9
HM_TEST1	BC:14:EF:CF:76:30	-40	12
CN-TEST-1	D8:B0:4C:C2:95:8B	-48	9
HM-OFFICE-1	08:9B:4B:94:D2:15	-67	6
HM-OFFICE-2	0E:9B:4B:94:D2:15	-67	6
WeiXuShi	B0:95:8E:2C:FB:E5	-85	11

Buttons for 'OK' and 'Refresh' are at the bottom.

- Enter the password and click Save.

STA Mode

Network Name(SSID): HM_TEST1

STA Password:

DHCP: Enable

- Click Restart.

Save Success

Save Success!
Configurations will take effect after restart.
After restart, you will need to re-login the configuration interface for other settings,
so it is recommended to restart after completing all settings.
Please click [Restart] to restart now, or click [Back] to continue setting.
You can restart after all configuration.

LED Description

LED Light	Red	Blue	Green	Red+Blue+Green
1 Power-on				Alternate Bright (1s)
2 Upgrade procedure				Alternate Shining (1/3s)
3 normal operation			Bright	
4 ID search is not complete			Shining	
5 Not ID		Bright		
6 Not connected to WIFI	Bright			
7 Server not connected	Shining			
8 Receive server data		Shining		

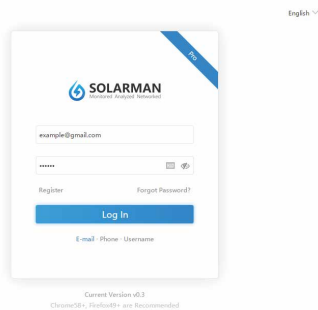
Website Configuration

Step 1: Install the microinverter and the monitoring device

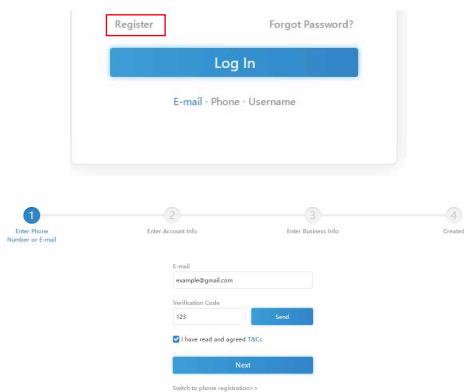
1. Install the microinverter system. Please read the Quick Installation Guide or the User Manual of microinverter on www.tsun-ess.com/downloads before installation.
2. Install the monitoring device. Connect the power adapter into the socket
3. Make sure the microinverter system and the monitoring device are working well.

Step 2: Establish an account

1. Visit the monitor website monitor.tsun-ess.com directly. Or enter this monitor website by the official website of TSUNESS www.tsun-ess.com.

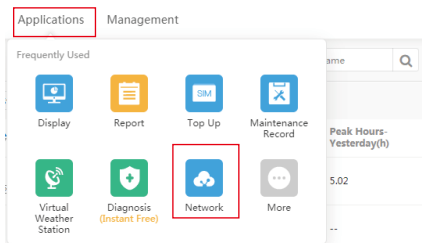


2. Click the "Register" button and register a new account.

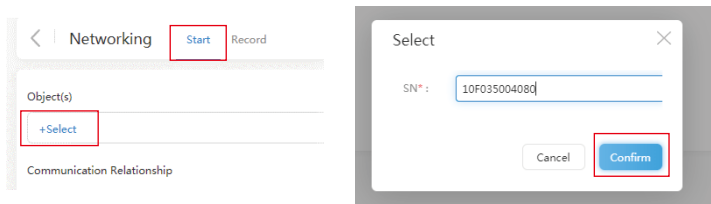


Step 3: Networking for the monitoring system

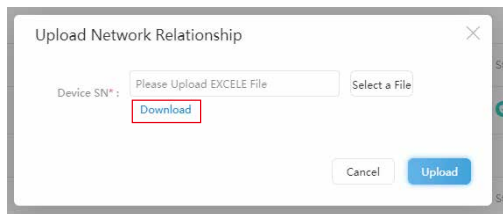
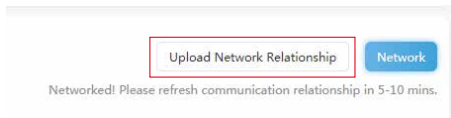
1. Login to the platform and find the “Network” page by Applications → Network. (Please make sure that the monitoring device has already connected to the server.)

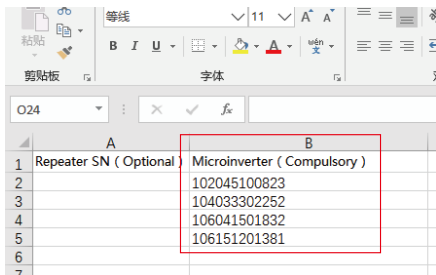


2. Click “+Select” to input the SN of monitoring device.

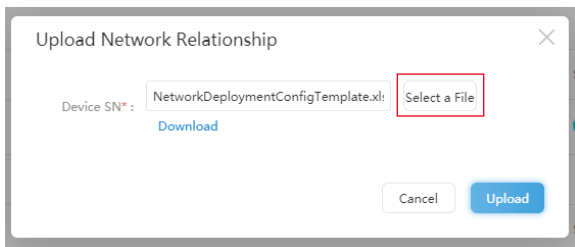


3. Click “Upload Network Relationship” to download the template file. After editing the file, click “Select a File” to upload file.





	A	B
1	Repeater SN (Optional)	Microinverter (Compulsory)
2		102045100823
3		104033302252
4		106041501832
5		106151201381
6		
7		

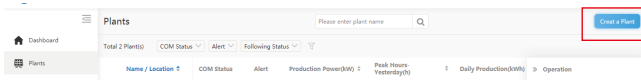


4. Find the “Plants” page by Business → Monitor → Plants. Click ‘Create a Plant’ to create a new plant.



Step 4: Create a Plant

1. Find the “Plants” page by O&M → Plants. Click ‘Create a Plant’ to create a new plant.



2. Input basic information, system information, yield information and owner information in this page.

Create a Plant:

Basic Info

System Info

Plant Info


Owner Info

Basic Info

*Name:

Demo plant

*Location:



3. Click “Save” and add a monitoring device in this plant. Click “add a New Gateway/Logger” and input the SN of the monitoring device.

Created! Please continue the following steps.

Add a New Gateway/Logger

Please enter a gateway/logger ID which belongs to the plant, system will get data from the gateway/logger and its sub-system. You can skip it now and do it later in Plant Details.

+SN

Authorize Users >
Other users are eligible to check the plant after your authorization. You can skip it now and do it later in Plant Details.

Authorize Business Units >
Other business units are eligible to check the plant after your authorization. You can skip it now and do it later in Plant Details.

Authorize Internal Members >
Other internal members are eligible to check the plant after your authorization. You can skip it now and do it later in Plant Details.

Select Tags >
You can tag the plant, which is convenient for you to spot it. You can skip it now and do it later in Plant Details.

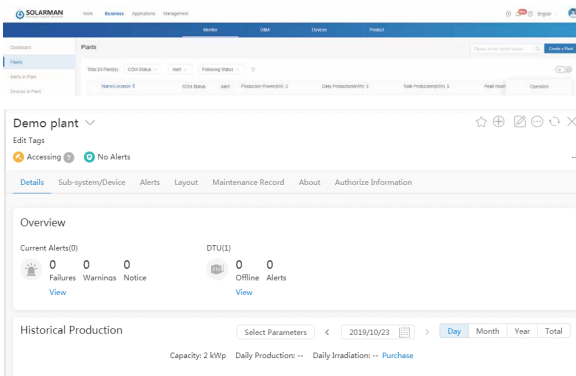
Add a New Sub-system >

Add a New Gateway/Logger ×

SN:

Add

4. All the plants can be viewed and managed in “Plants” page.



SOLARMAN | Home | Business | Applications | Management

Overview | Plants | + Add New Plant

Plant Name	Capacity	Status	DTU	Production	Alerts	Options
Demo Plant	2 kWp	Online	1	0 kWh	0	+ -

Demo plant + - ×

Edit Tags: ● Accessing ● No Alerts

Details | Sub-system/Device | Alerts | Layout | Maintenance Record | About | Authorize Information

Overview

Current Alerts(0) DTU(1)

0 Failures

0 Warnings

0 Notice

[View](#)

0 Offline Alerts

[View](#)

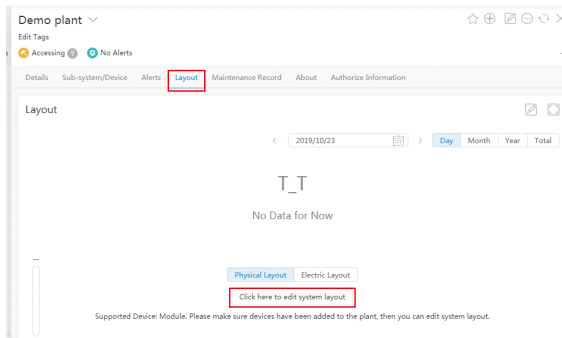
Historical Production

Select Parameters < 2019/10/23 > Day Month Year Total

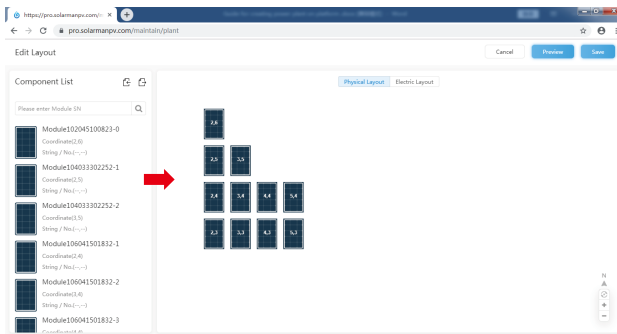
Capacity: 2 kWp Daily Production: -- Daily Irradiation: -- Purchase

Step 5: Edit the system layout

1. Find the "Layout" page by Business → Monitor → Plants → "plant name" → Layout. Click "Click here to edit system layout".




2. Drag the components to the right side to finish the physical layout.





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