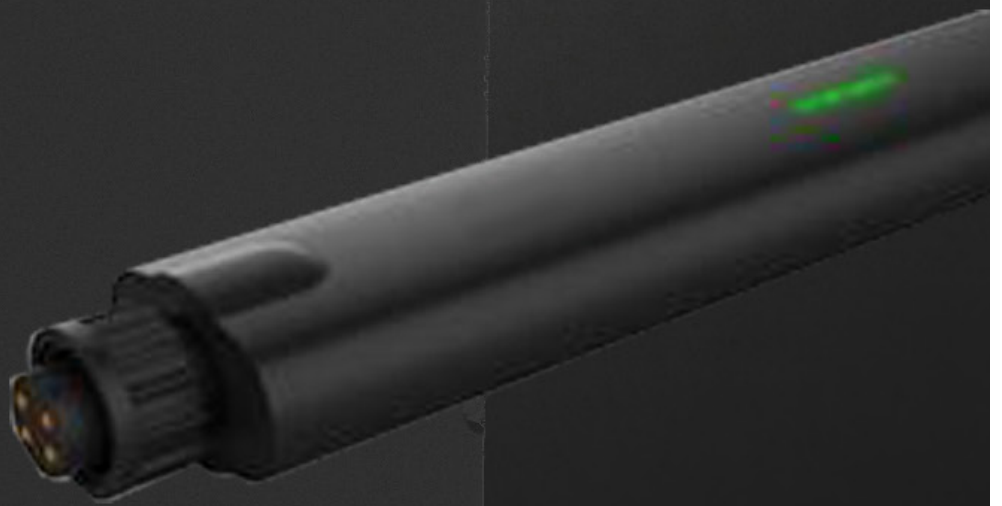


AEG

AEG WIFI200 WIFI STICK INSTALLATION MANUAL



AEG WIFI STICK INSTALLATION MANUAL

Product series: AEG WiFi200

Thank you for choosing the reliability of AEG grid-tied solar inverters!

This installation manual is intended for dealers and installers involved in the planning, installation and commissioning of photovoltaic systems deploying AEG solar inverters. These instructions are meant to provide you with valuable information to ensure that the installation of the components runs smoothly.

The AEG WiFi200 communication module (or “WiFi Stick”) is a device which enables the transmission of relevant performance data from your AEG inverter to the monitoring software (AEG InverterControl App and AEG InverterControl Monitoring Webportal).

The AEG WiFi200 is used (at the time of writing) with mono-phase inverters of the series AS-IR01 and AS-IR01-2, and with three-phase inverters of the series AS-IC01 and AS-IC01-2. The AEG WiFi200 can only be installed by qualified professional companies.


Please observe the standards and regulations applying to photovoltaic systems in the relevant countries, as well as the rules of the employers’ liability insurance associations for accident protection. Failure to comply with these can result in major injuries and damage.

Table of Contents

Table of Contents	2
1. Safety Precautions.....	3
2. Unpacking.....	3
3. Introduction to AEG WiFi200.....	3
3.1 Product function and compatibility with AEG inverters.....	3
3.2 Local monitoring and Remote monitoring.....	4
4. Installation and Configuration of AEG WiFi200.....	4
4.1 Product looks and fitting position.....	4
4.2 Installing the AEG WiFi200.....	5
4.3 Configuring the AEG WiFi200.....	5
4.3.1 Local monitoring (#1): Direct connection via mobile phone.....	7
4.3.2 Local monitoring (#2): Configuration via PC + home WiFi (LAN).....	9
4.3.3 Registering a Remote Monitoring Account.....	11
4.3.4 Remote monitoring (#1): Configuration via mobile phone + internet access.....	13
4.3.4 Remote monitoring (#2): Configuration via PC+ internet access.....	18
5. Resetting the AEG WiFi200.....	22
6. Contacts.....	22


1. Safety Precautions

Please comply with the following precautions to prevent physical injury and product damage.

	<p>Only qualified electricians are allowed to install AEG WiFi200.</p> <p>Do not store, place or install AEG WiFi200 on or close to combustible materials.</p> <p>The installation site and equipment should not be publicly accessible nor accessible to children.</p> <p>Remove metal accessories such as rings or bracelets before installation and electrical connection of the components to avoid electric shock.</p> <p>Ensure reliable connection between AEG WiFi200 and the inverter</p>
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2. Unpacking

Double-check the order information and the product nameplate to ensure the consistency of the order.

	<p>Please keep the packaging of your AEG WiFi200, especially the cardboard box. On the box you will relevant information such as the Serial Number and the Product Key which are needed for completing specific configuration processes as explained in 4.3 "Configuring the AEG WiFi200". Alternatively, you will find these information also on the product itself.</p>
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3. Introduction to AEG WiFi200

3.1 Product function and compatibility with AEG inverters

The AEG WiFi200 is a communication module, a wireless monitoring device developed to be used in combination with AEG grid-tied solar inverters of the series AS-IR01, AS-IR01-2, AS-IC01 and AS-IC01-2 up to 30 kW. It allows users to configure inverter parameters, and control and monitor the inverter locally and remotely. The WiFi Stick fits the RS485 port of the AEG inverters.

3.2 Local monitoring and Remote monitoring

There are two modes with which the AEG WiFi200 allows you to monitor your inverter: Local monitoring and Remote monitoring.

Local Monitoring allows you to monitor your AEG inverter through your home WiFi (WLAN). Local Monitoring only works within the signal reach of your WLAN.

To set up Local Monitoring you will need to connect the AEG WiFi200 (WiFi Stick), your (home) WLAN router and the AEG InverterControl app; or, you can establish a direct connection between the AEG WiFi Stick and the AEG InverterControl app.

Remote Monitoring allows you to monitor your AEG inverter from any place you have a mobile internet connection, (via the AEG Invertercontrol App) or via PC (via the AEG InverterControl Webportal).

Chapter 4 will explain in detail how the WiFi stick has to be configured in order to work in Local or in Remote Monitoring mode.

4. Installation and Configuration of AEG WiFi200

4.1 Product looks and fitting position



Figure 1: AEG WiFi200 looks

The AEG WiFi200 should be fastened to the RS485 port of AEG solar inverter.

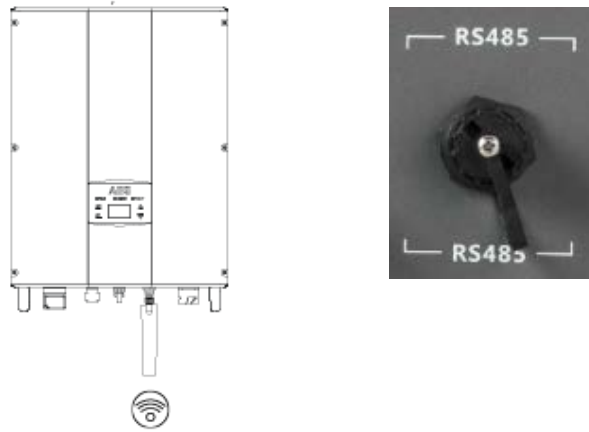


Figure 2: Example of AEG WiFi200 connected to an AEG inverter

4.2 Installing the AEG WiFi200

1. Complete the installation of your AEG inverter in the selected place. Connect the DC input and switch on the inverter without the AC grid (AC disconnect/switch off)
2. Fasten up the AEG WiFi200 (WiFi Stick) to the RS 485 communication port of your inverter.
3. Wait until the hotspot “AEG” can be found. You will be able to check if the AEG hotspot was successfully set up by checking on your mobile phone or on your PC phone the available wireless networks.
4. Configure the WiFi Stick.

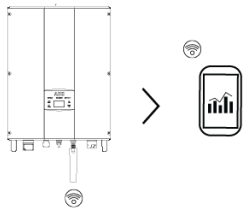
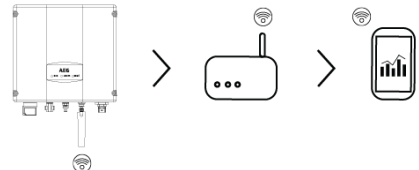
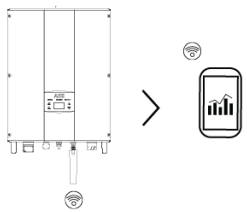
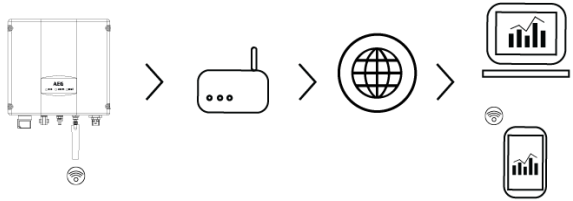
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4.3 Configuring the AEG WiFi200

Preliminary requirements:




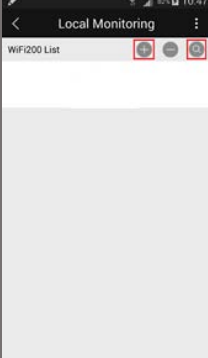

- 1) Before configuring the AEG WiFi200 please make sure it is correctly installed (see 4.2 “Installing the AEG WiFi200”).
- 2) Please see the overview below (“Monitoring Type / Configuration Type / Scheme & Components”) to understand which components are involved.
- 3) Remote Monitoring requires the registration of a Remote Monitoring Account. Please find the related instructions in 4.3.3 “Registering a Remote Monitoring Account”.

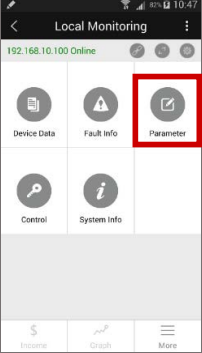
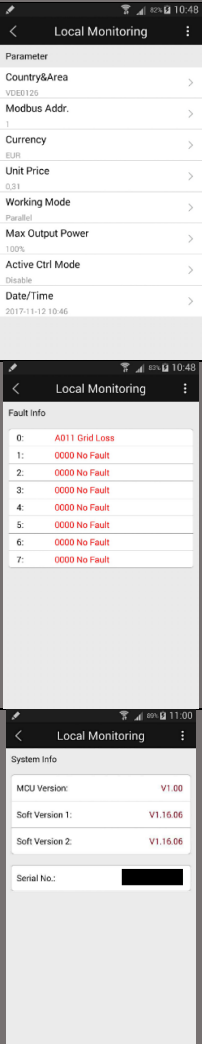
The AEG WiFi200 has four possible configuration procedures, two for Local Monitoring and two for Remote Monitoring. Here below is an overview of which they are and which components are involved.

Monitoring Type	Configuration Type	Scheme and Components
Local Monitoring (#1)	Direct connection via mobile phone	 <p>You will need: your AEG inverter, the AEG WiFi200 (WiFi Stick), a mobile phone, the AEG InverterControl App</p>
Local Monitoring (#2)	Configuration via PC + home WiFi (LAN)	 <p>You will need: your AEG inverter, the AEG WiFi200 (WiFi Stick), a WLAN router, a mobile phone, the AEG InverterControl App</p>
Remote Monitoring (#1)	Configuration via mobile phone + internet access	 <p>You will need: your AEG inverter, the AEG WiFi200 (WiFi Stick), a mobile phone with a mobile internet connection, the AEG InverterControl App.</p>
Remote Monitoring (#2)	Configuration via PC + internet access	 <p>You will need: your AEG inverter, the AEG WiFi200 (WiFi Stick), a PC, a mobile phone, the AEG InverterControl App</p>

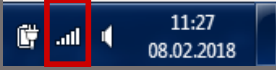


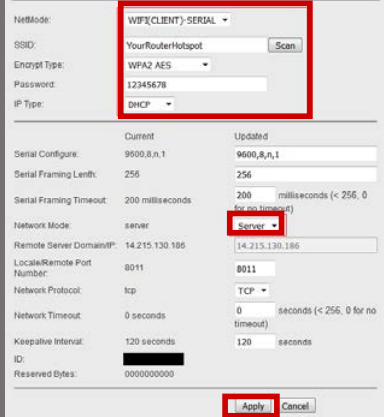


The configuration for the above cases will be explained in detail in the below paragraphs.


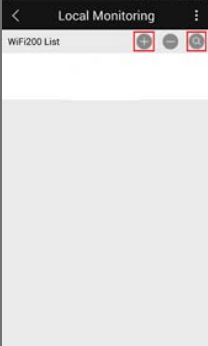

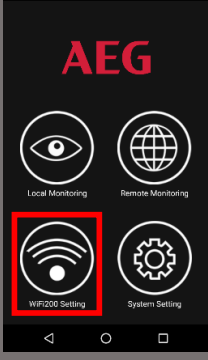
4.3.1 Local monitoring (#1): Direct connection via mobile phone

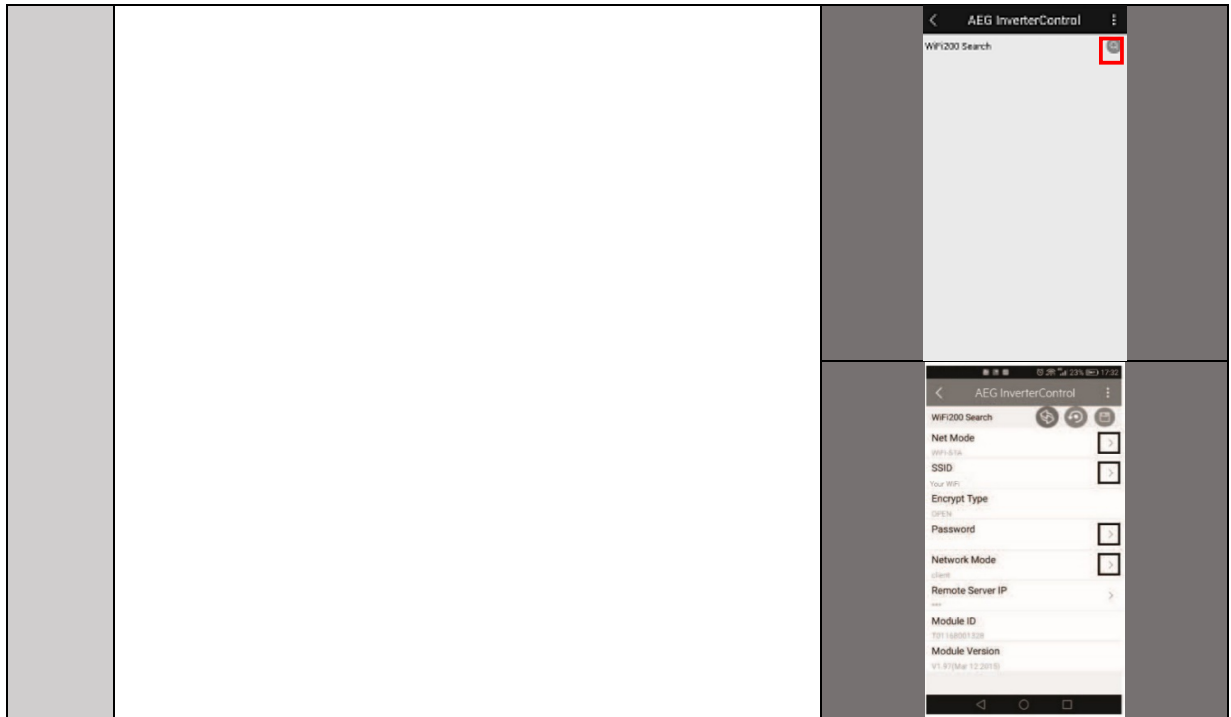
1	<p>On your mobile device, download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it</p>	
2	<p>Enable the WiFi on your mobile phone and connect it to the hotspot “AEG WiFi”.</p>	
3	<p>Launch the AEG InverterControl App. Select “Local Monitoring”</p>	
4	<p>Click the “search” (lens) icon to find the WiFi Stick. Alternatively, click the “+” icon and confirm the IP address.</p>	
5	<p>Find the AEG WiFi Stick. Click on it.</p>	

<p>6</p>	<p>Click on the “Parameters” section</p>	
<p>7</p>	<p>Check the parameters. Done! You can now start to monitor the performance of your AEG Inverter with the AEG InverterControl App.</p>	

4.3.2 Local monitoring (#2): Configuration via PC + home WiFi (LAN)

1	Scan for wireless networks. Connect your PC with the “AEG WiFi” hotspot.	
2	Open the web browser and access the configuration website of AEG WiFi200 with IP address http://192.168.16.254 .	
3	Log in with the username “admin” and the password “admin”. This will take you to the configuration interface (see the right column here). →	
4	<p>Set the parameters for LOCAL MONITORING</p> <p>NetMode: select WIFI(CLIENT)-SERIAL SSID: click “Scan” and select the Hotspot name of your router Encrypt Type: Automatically updated after you select your hotspot (or. Select according to your router, e.g. “WPA2-AES”). Password: Hotspot password of the wireless router. IP Type: Leave it as “DHCP”. Network Mode: Leave it as “Server”.</p> <p>Click “Apply” to save the changes.</p>	
5	On your mobile phone, download the AEG InverterControl App from the App Store / Google Play (Look for “AEG InverterControl” from the App Store/Google Play on your mobile) and launch it	
6	Enable the WiFi on your mobile phone and connect it to the hotspot of your router.	

<p>7</p>	<p>Launch the AEG InverterControl App. Select "Local Monitoring"</p>	
<p>8</p>	<p>Click the "search" (lens) icon to find the WiFi Stick. Alternatively, click the "+" icon and confirm the IP address.</p>	
<p>9</p>	<p>Find the AEG WiFi Stick. Done! You can now start monitoring your AEG Inverter performance with your AEG InverterControl App by clicking on the WiFi stick displayed in the list.</p>	
	<p>(--- If you wish to double-check if the connection between the WiFi stick and your router works correctly, connect your mobile phone to the wireless network of your router and select "WiFi Setting". If you can find the WiFi200 and the corresponding parameters, it means the setting is correct.</p>	



4.3.3 Registering a Remote Monitoring Account


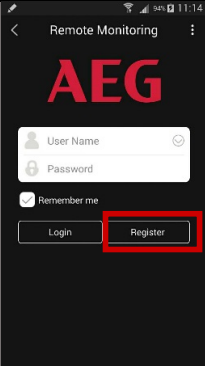
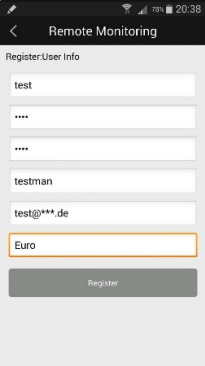
Monitoring the performance of your AEG inverter from remote requires you to set up the AEG WiFi200 for Remote Monitoring and preliminarily registering a Remote Monitoring Account. You will be able to register your Remote Monitoring Account via:

- A) The AEG InverterControl App.
- B) The AEG InverterControl Monitoring Webportal (www.invertercontrol.com).

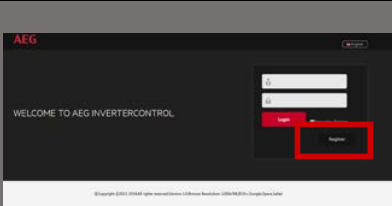
Please find below the instructions on how to register a Remote Monitoring Account.

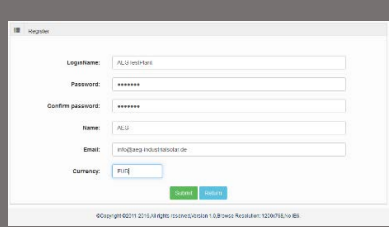

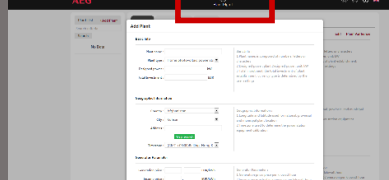
A) Registering a Remote Monitoring Account via the AEG InverterControl App

1	Download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it	
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2	Select "Remote Monitoring" in the AEG InverterControl app	
9	You will be prompted to the Login and Registration page. Click on the Register button.	
10	Please make sure you select a User Name without special characters / blank spaces. Confirm the information and finalize the registration.	



B) Registering over the AEG InverterControl Monitoring Webportal

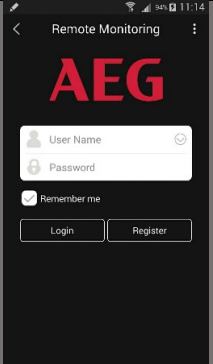
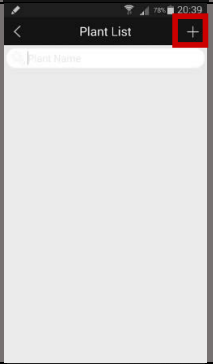
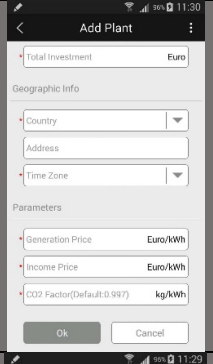

1	Go to the AEG InverterControl Monitoring Webportal page www.invertercontrol.com . Click on "Register"	
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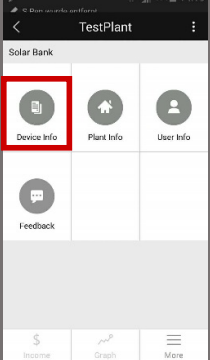
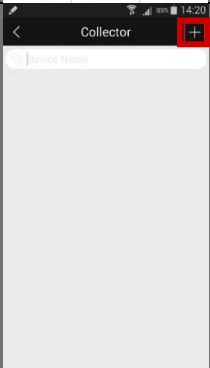
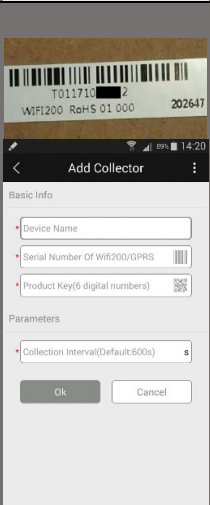

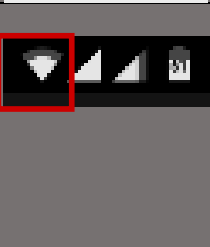
<p>2</p>	<p>Register by selecting a Login Name, a Password, and inputting your name, email, and preferred currency. Click “Submit” to confirm.</p> <p>Please make sure you select a Login Name without special characters / blank spaces.</p>	
<p>3</p>	<p>You will be prompted back to the main page of the AEG InverterControl Monitoring Webportal. Log in with the credentials you just created.</p>	
<p>4</p>	<p>Click on the “Plant Mgmt” icon. The interface “Add Plant” will appear. Make sure that the Timezone is correctly selected. Fill in the plant data and click “Confirm” to complete the registration.</p>	


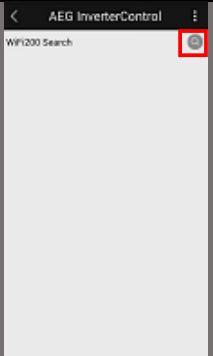

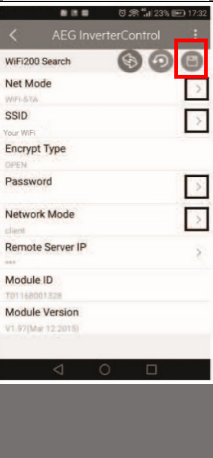
You can now proceed to configure the AEG WiFi Stick for Remote Monitoring.

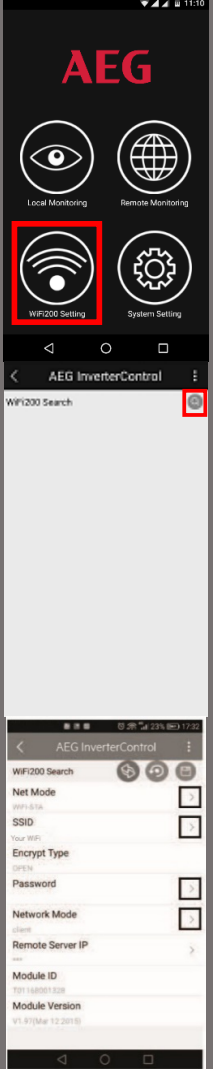

4.3.4 Remote monitoring (#1): Configuration via mobile phone + internet access

<p>1</p>	<p>On your mobile phone, download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it</p>	
<p>2</p>	<p>Select “Remote Monitoring”</p>	




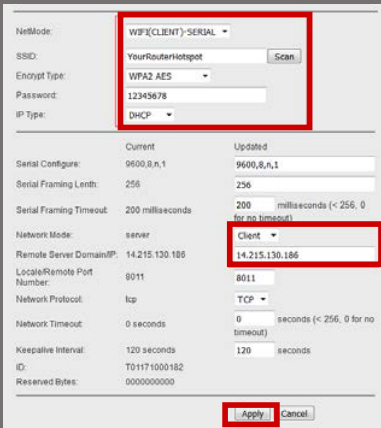
<p>3</p>	<p>Login with your Remote Monitoring Account.</p>	
<p>4</p>	<p>Click “+” to add a new plant.</p>	
<p>5</p>	<p>Fill in the required data and confirm with “OK”</p>	
<p>6</p>	<p>Now add the AEG WiFi200 (WiFi Stick): select your plant and click on the Plant or “➤”</p>	

7	Click on "Device Info"	
8	Click on Collector "+" to add a WiFi Stick	
9	Input the Name of a WiFi Stick, along with its Serial Number and Key which you will find on the product packaging.	
10	Refresh the app and you will find the newly added WiFi Stick. If you have more inverters in your plant, you can repeat the previous step to add more WiFi Sticks.	
11	<p>Now set the parameters of the WiFi stick for remote monitoring.</p> <p>Enable the WiFi on your mobile phone and connect it to the hotspot "AEG WiFi".</p>	




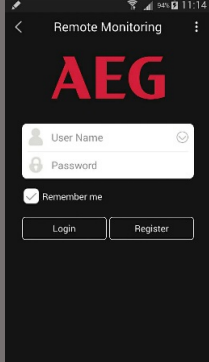
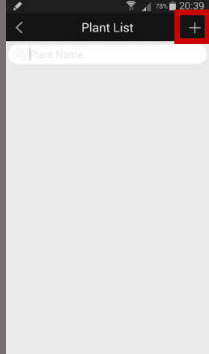
<p>12</p>	<p>Launch the AEG InverterControl App. Select “WiFi Settings”</p>	
<p>13</p>	<p>Click the “search” (lens) icon to find the WiFi Stick. Alternatively, click the “+” icon and confirm the IP address.</p>	
<p>14</p>	<p>Find the AEG WiFi Stick in the list and click on it.</p>	
<p>15</p>	<p>Select and set the parameters as indicated here:</p> <p>Net Mode: select WIFI-STA SSID: Select your WiFi Router Password: Hotspot password of the wireless router. Network Mode: Select “Client”.</p> <p>Confirm the settings by clicking “Save” button (on the top right of the App interface). Now WiFi stick’s hotspot “AEG WiFi” will disappear.</p>	

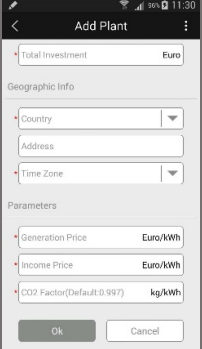
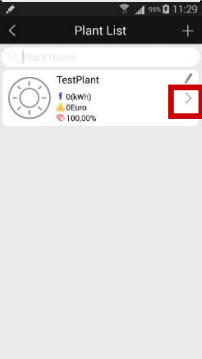
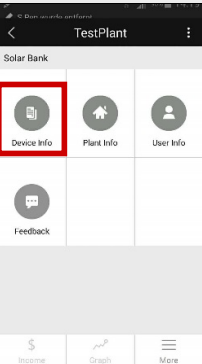
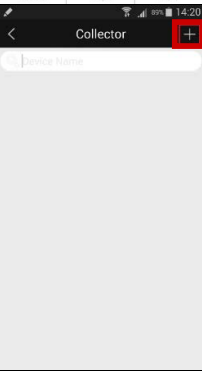

<p>16</p>	<p>(--- If you wish to double-check if the connection between the WiFi stick and your router works correctly, connect your mobile phone to the wireless network of your router and select “WiFi Setting”. If you can find the WiFi200 and the corresponding parameters, it means the setting is correct.</p> <p>If the setting is not correct, please reset the WiFi stick and set the parameter again (step 11 to 15) ---)</p>	 <p>The screenshot shows the AEG InverterControl app interface. At the top, there are four icons: Local Monitoring (eye), Remote Monitoring (globe), WiFi200 Setting (WiFi symbol), and System Setting (gear). The WiFi200 Setting icon is highlighted with a red square. Below this, the app shows a 'WiFi200 Search' screen with a search bar and a red square icon in the top right corner.</p>
<p>17</p>	<p>Wait for approximately 15 minutes, then launch the AEG InverterControl App again, select “Remote Monitoring” and log in to monitor the performance of your AEG Inverter.</p>	 <p>The screenshot shows the AEG InverterControl app interface. At the top, there are four icons: Local Monitoring (eye), Remote Monitoring (globe), WiFi200 Setting (WiFi symbol), and System Setting (gear). The Remote Monitoring icon is selected, and the app has transitioned to a screen showing various system parameters and settings.</p>

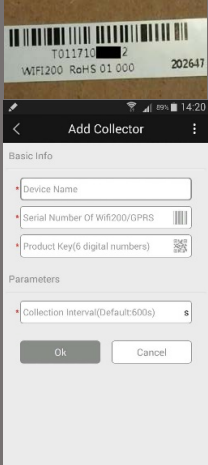
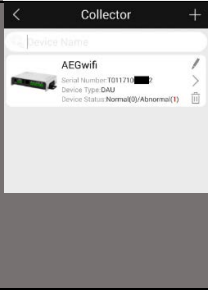
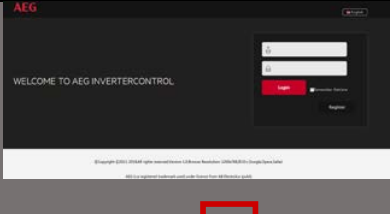
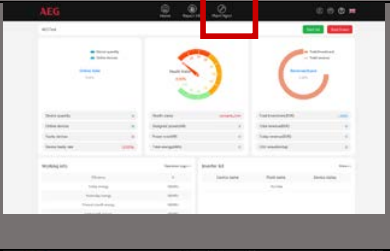
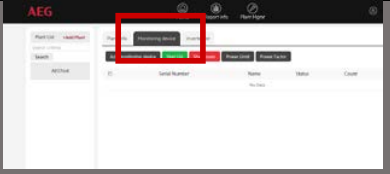
4.3.4 Remote monitoring (#2): Configuration via PC+ internet access


<p>1</p>	<p>Scan for wireless networks. Connect your PC with the “AEG WiFi” hotspot.</p>	
<p>2</p>	<p>Open the web browser and access the configuration website of AEG WiFi200 with IP address http://192.168.16.254.</p>	
<p>3</p>	<p>Log in with the username “admin” and the password “admin”. This will take you to the configuration interface (see the right column here). →</p>	
<p>4</p>	<p>Set the parameters for REMOTE MONITORING</p> <p>Net Mode: select WIFI(CLIENT)-SERIAL SSID: click “Scan” and select the Hotspot name of your router Encrypt Type: Automatically updated after you select your hotspot (or. Select according to your router, e.g. “WPA2-AES”). Password: Hotspot password of the wireless router. IP Type: Leave it as “DHCP”. Network Mode: Leave it as “Client”. Remote Server Domain: 14.215.130.186</p> <p>Click “Apply” to save the changes. Allow 15 minutes to update</p>	
<p>Now you have to possibilities for continuing the setup: either via the AEG InverterControl App, or via the AEG InverterControl Monitoring Webportal.</p>		

If you wish to use the AEG InverterControl App, continue reading from instruction point number 5 below.
 If you wish to use the AEG InverterControl Monitoring Webportal, skip to instruction point number 17 below.

<p>5</p>	<p>On your mobile device, download the AEG InverterControl App from the App Store / Google Play (Look for “AEG InverterControl” from the App Store/Google Play on your mobile) and launch it</p>	
<p>6</p>	<p>Enable the WiFi on your mobile phone and connect it to the hotspot of your router.</p>	
<p>7</p>	<p>Launch the AEG InverterControl App. Select “Remote Monitoring”</p>	
<p>8</p>	<p>Login using your Remote Monitoring Account.</p>	
<p>9</p>	<p>Click “+” to add a new plant.</p>	

<p>10</p>	<p>Fill in the required data and confirm with “OK”</p>	
<p>11</p>	<p>Now add the AEG WiFi200 (WiFi Stick): select your plant and click on the plant or on “➤”</p>	
<p>12</p>	<p>Click on “Device Info”</p>	
<p>13</p>	<p>Click on Collector “+” to add a WiFi Stick</p>	
<p>14</p>	<p>Input the Name of a WiFi Stick, along with its Serial Number and Key which you will find on the product packaging.</p>	

		
15	<p>Refresh the app and you will find the newly added WiFi Stick. If you have more inverters in your plant, you can repeat the previous step to add more WiFi Sticks.</p> <p>Done! You can now start monitoring the performance of your inverter via the AEG InverterControl App.</p>	
16	<p>If you have more than one Monitoring Device / Collector (WiFi Stick) in your plant, repeat the operation from step 12 to 15</p>	
<p>Please follow the below instructions if you are completing the configuration via the AEG InverterControl Monitoring Webportal</p>		
17	<p>Login in the AEG InverterControl Monitoring Webportal at www.invertercontrol.com using your Remote Monitoring Account.</p>	
18	<p>Select "Plant Mgmt" from the navigation bar</p>	
19	<p>Select the tab "Monitoring Device"</p>	

20	<p>Select the tab “Add monitoring device” and the related interface will appear. Input the Device name, the Serial number and the product Key that you will find on the packaging of your AEG WiFi200. Leave the default connection interval that will appear, then click on “Confirm” to save and proceed.</p>	
21	<p>If you have more than one Monitoring Device / Collector (WiFi Stick) in your plant, repeat the operation from step from 19 to 20.</p>	

5. Resetting the AEG WiFi200

If malfunctioning occurs during operation of the AEG WiFi200, or if the settings are not properly adjusted, reset the AEG WiFi200 by pressing and holding the reset button for 5 seconds.



Reset button:
press and hold
for 5 seconds

6. Contacts

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