

AEG

AEG WIFI200 WIFI STICK INSTALLATION MANUAL

PD201803 EN V.3-18



AEG WIFI STICK INSTALLATION MANUAL

Product series: AEG WiFi200 / AEG WiFi Stick

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 (hereinafter referred to as “AEG 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 WiFi Stick 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 WiFi Stick 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.

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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 WiFi Stick.</p> <p>Do not store, place or install AEG WiFi Stick 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 WiFi Stick 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 WiFi Stick, especially the cardboard box. On the box you will find 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 WiFi Stick". Alternatively, you will find this information also on the product itself.</p>
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3. Introduction to the AEG WiFi Stick

3.1 Product function and compatibility with AEG inverters

The AEG WiFi Stick 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 Definition of Local Monitoring and Remote Monitoring

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

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

Local Monitoring allows you to monitor your AEG inverter through your home WiFi (WLAN). Monitoring takes place via mobile (via the AEG InverterControl App). Local Monitoring only works within the signal reach of your WLAN.

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

4. Installation and Configuration of the AEG WiFiStick

4.1 Product looks and fitting position



Figure 1: AEG WiFi Stick looks

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

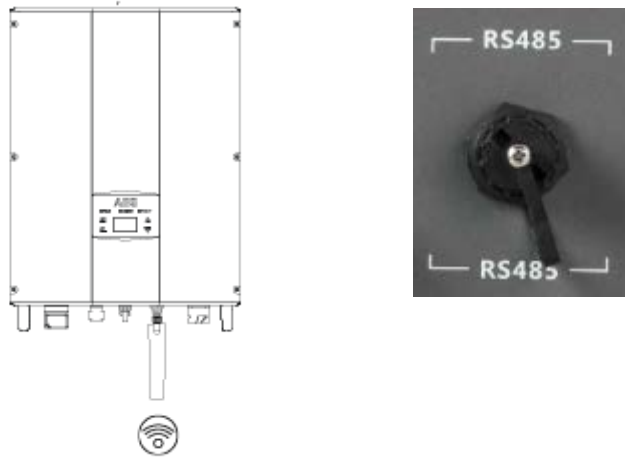


Figure 2: Example of AEG WiFi Stick connected to an AEG inverter

4.2 Installing the AEG WiFi Stick

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 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.




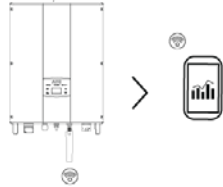
4.3 Configuring the AEG WiFi Stick

Preliminary requirements:

- 1) Before configuring the AEG WiFi Stick please make sure it is correctly installed and active (see 4.2 “Installing the AEG WiFi Stick”).
- 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 4.3.1 “Registering a Remote Monitoring Account”.

To easily configure your WiFi Stick and monitor your inverter you can use the dedicated AEG InverterControl App as detailed in paragraphs 4.3.1, 4.3.2 (Remote Monitoring; recommended) and 4.3.3 (Local Monitoring).

Here below is an overview of which they are and which components are involved.

Monitoring Type	Configuration Process	Scheme and Components
(RECOMMENDED) Remote Monitoring <i>See paragraph 4.3.1 and 4.3.2</i>	Via mobile phone with AEG InverterControl App 	 You will need: your AEG inverter, the AEG WiFi Stick, a mobile phone with a mobile internet connection, the AEG InverterControl App.
Local Monitoring <i>See paragraph 4.3.3</i>	Via mobile phone with AEG InverterControl App 	 You will need: your AEG inverter, the AEG WiFi Stick, a mobile phone, the AEG InverterControl App

4.3.1 Registering a Remote Monitoring Account

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



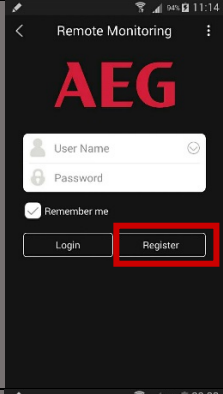
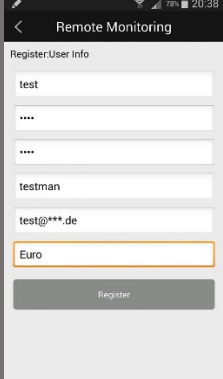
A) The AEG InverterControl App

OR

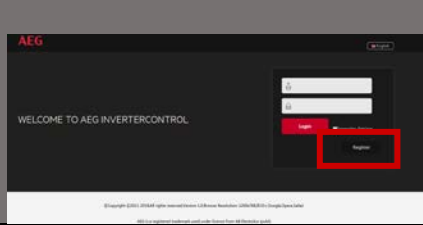
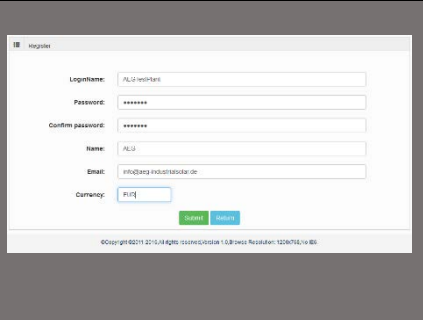
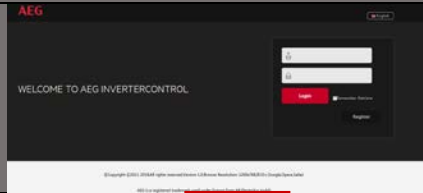
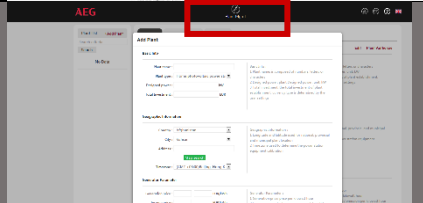
B) The AEG InverterControl Monitoring Webportal (www.invertercontrol.com).

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

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

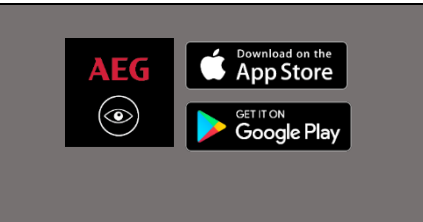
1	Download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it	
2	Select “Remote Monitoring” in the AEG InverterControl app	
9	You will be prompted to the Login and Registration page. Click 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.	



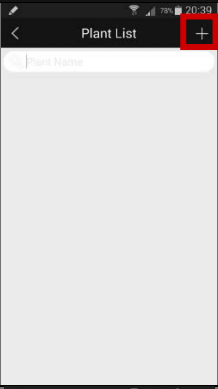
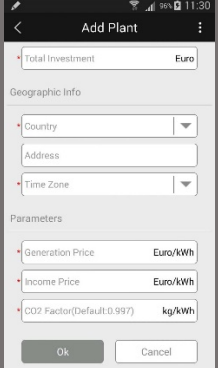
B) Registering over the AEG InverterControl Monitoring Webportal

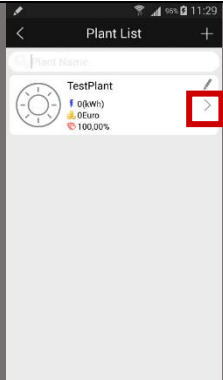
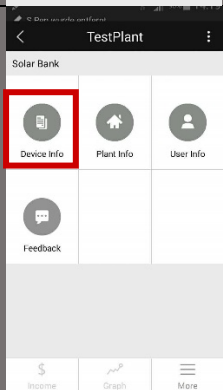
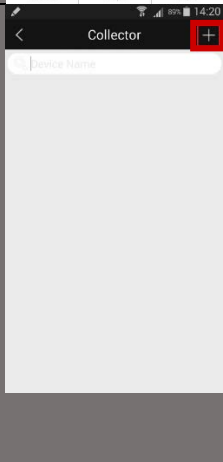
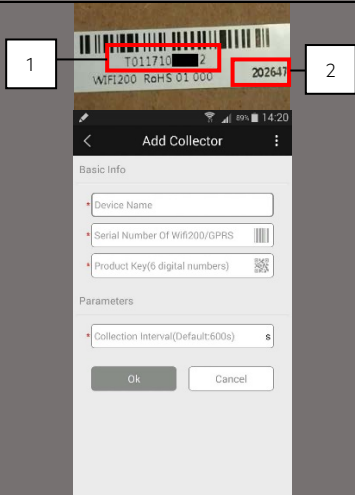
1	Go to the AEG InverterControl Monitoring Webportal page www.invertercontrol.com . Click on “Register”	
2	Register by selecting a Login Name, a Password, and inputting your name, email, and preferred currency. Click “Submit” to confirm. Please make sure you select a Login Name without special characters / blank spaces.	
3	You will be prompted back to the main page of the AEG InverterControl Monitoring Webportal. Log in with the credentials you just created.	
4	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.	




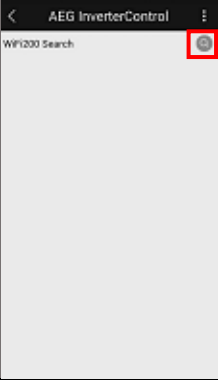

You can now proceed to configure the AEG WiFi Stick for Remote Monitoring.

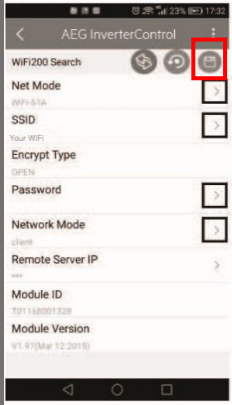
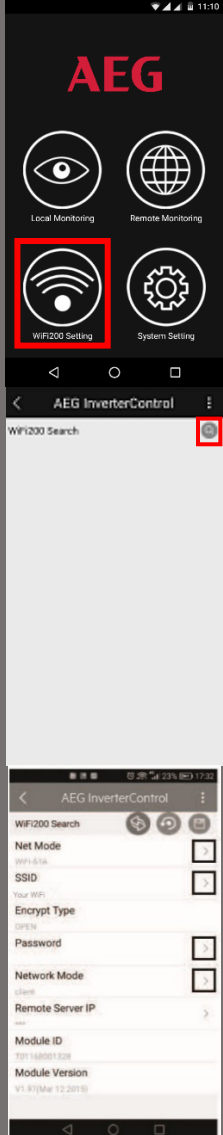
4.3.2 Configuration for Remote Monitoring with the AEG InverterControl App (RECOMMENDED)

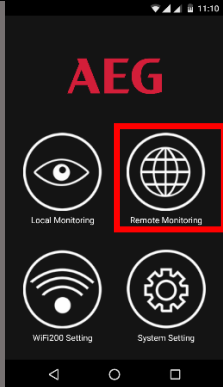
1	On your mobile phone, download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it	
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<p>2</p>	<p>Select "Remote Monitoring"</p>	
<p>3</p>	<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 WiFi Stick: select your plant and click on the Plant or “➤”</p>	
<p>7</p>	<p>Click on “Device Info”</p>	
<p>8</p>	<p>Click on Collector “+” to add a WiFi Stick</p>	
<p>9</p>	<p>Input the Name of a WiFi Stick (you can choose one arbitrarily), along with its Serial Number and Key which you will find on the product packaging.</p> <p>The Serial Number is the number represented under the bar code (“1” in the picture on the right), while the Product Key is the six-digit number on the right of the label (“2” in the picture on the right). As “Parameters” you can for instance input “600” (the default interval for collection data, equalling to 10 minutes); or for instance “300” (equalling to 5 minutes).</p> <p>When finished, press OK to save the settings.</p>	




<p>10</p>	<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>11</p>	<p>Now set the parameters of the WiFi stick for remote monitoring. 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>	

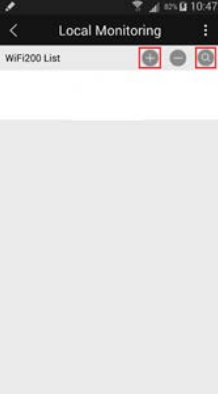

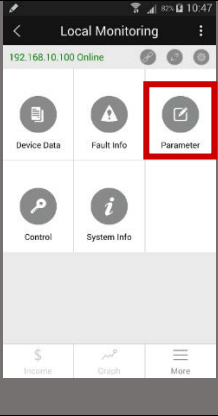
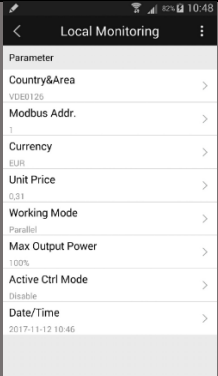
<p>15</p>	<p>Select and set the parameters as indicated here:</p> <p>Net Mode: select WIFI-STA SSID: Select your WiFi Router Password: Hotspot password of the wireless router. Network Mode: Select "Client".</p> <p>Confirm the settings by clicking "Save" button (on the top right of the App interface). 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 WiFi Stick 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>	

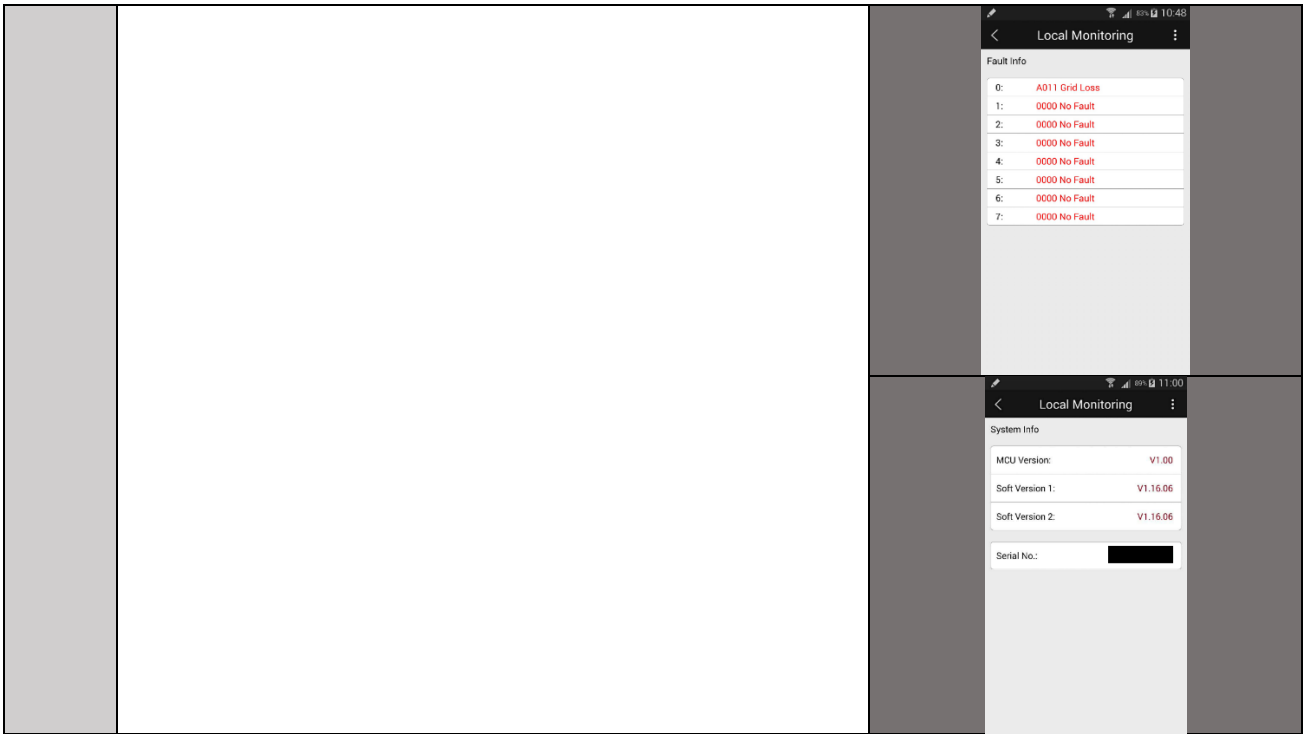
17	<p>Wait for approximately 15 minutes, then launch the AEG InverterControl App again, select “Remote Monitoring” and log in to monitor the performance of your AEG Inverter.</p>	
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4.3.3 Configuration for Local Monitoring with the AEG InverterControl App

	<p>Please note that Local Monitoring only works within the signal reach of your WLAN</p>
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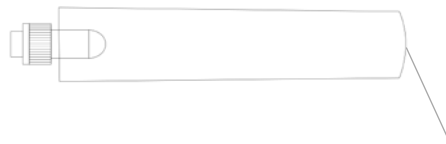
1	<p>On your mobile device, download the AEG InverterControl App from the App Store / Google Play (look for “AEG InverterControl” in the App Store/Google Play application on your mobile) and launch it</p>	
2	<p>Enable the WiFi on your mobile phone and connect it to the hotspot “AEG WiFi”.</p>	
3	<p>Launch the AEG InverterControl App. Select “Local Monitoring”</p>	

<p>4</p>	<p>Click the “search” (lens) icon to find the WiFi Stick. Alternatively, click the “+” icon and confirm the IP address.</p>	
<p>5</p>	<p>Find the AEG WiFi Stick. Click on it.</p>	
<p>6</p>	<p>Click on the “Parameters” section</p>	
<p>7</p>	<p>Confirm the individual parameters (leave “Max Output Power”, „Working Mode“ and “Active Ctrl Mode” as the default parameters; check if the area, currency and timezone etc. are correct. To change these you just need to click on the individual parameters).</p> <p>Done! You can now start to monitor the performance of your AEG Inverter with the AEG InverterControl App.</p>	



5. Resetting the AEG WiFi Stick

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



Reset button:
press and hold
for 5 seconds

6. How to monitor your AEG inverter

You can monitor your AEG inverter either via mobile or via PC depending on which monitoring type (local or remote) you have chosen for your system:

LOCAL MONITORING: monitor via the AEG InverterControl App

REMOTE MONITORING: monitor via the AEG InverterControl App or the AEG InverterControl Webportal (www.invertercontrol.com). For this option see the dedicated guide “AEG InverterControl Webportal User Manual” under www.aeg-industrialsolar.de/aeg-inverter-service)

7. Contacts

Should you need assistance, you can get in touch with:

Solar Solutions GmbH
Schneckenhofstrasse 19
60596 Frankfurt am Main
Germany

Website: www.aeg-industrialsolar.de

AEG Inverter Technical Support:

Mail: inverter-support@aeg-industrialsolar.de

Tel: +31 172 205 011