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World Professional Solar Inverter Manufacturer High efficiency/ High reliability/ High stability

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Basis WiFi-configuratie

Hans de Valk, Omnik Benelux



Dit document bevat de instructies voor de basisconfiguratie van de WiFiverbinding met een WiFi-kaart en de monitoring-configuratie op de Omnik Portal.

Neemt u bij onduidelijkheden of vragen contact op met Omnik Benelux via

- e-mail: service@omnik-solar.com
- Telefoon: +31 30 265 7845



Configuratie van de verbinding tussen omvormer en router



| 0 | ⁰ Wireless Network Connect | ion | | X |
|---|---|------------------------------|--|----------------|
| | Network Tasks | Choose | e a wireless network | |
| | 🛃 Refresh network list | Click an iten information | n in the list below to connect to a <u>w</u> ireless network in range (, | or to get more |
| | Set up a wireless network for a home or small office | ((ဓူ)) | AP_604955428 | Connected 👷 |
| | | U | Unsecured wireless network | |
| | Related Tasks | ((ດູ)) | Seclusive2 | Automatic ☆ |
| | i) Learn about wireless | U | 😚 Security-enabled wireless network (WPA2) | |
| | networking | ((0)) | Seclusive | |
| | Change the order of preferred networks | | 😚 Security-enabled wireless network (WPA2) | |
| | 🍛 Change advanced | ((0)) | H220N162C21 | |
| | settings | | 😚 Security-enabled wireless network (WPA2) | 0000 |
| | | ((Q)) | Ziggo03F2D | |
| | | | 😚 Security-enabled wireless network (WPA2) | 0000 |
| | | ((Q)) | Ziggo | |
| | | U | 😚 Security-enabled wireless network (WPA2) | •0000 |
| | | | | Connect |

Schakel de omvormer aan en maak via laptop of tablet verbinding met het 'AP-netwerk' dat uitgezonden wordt door de WiFi-kaart.

Het nummer in de netwerknaam is het serienummer van de WiFikaart.

Wees zeker dat de computer 'connected' is! Zie afbeelding hiernaast.





De computer is nu ALLEEN verbonden met het WiFi-netwerk van de omvormer ('APnetwerk') en dus NIET met de router of het internet!

De computer kan dus alleen verbinding maken met de WiFi-kaart om deze in te stellen voor de verbinding met de router (en via de router met de Omnik Portal.



| Nieuw tabblad | × | | | • × |
|---------------|---|--|----------|-------------|
| ← → C fi | 10.10.100.254 | | | ☆ = |
| Google Apps | Verificatie vereist | | × Andere | bladwijzers |
| | Voor de server http://10 gebruikersnaam en wac IGEN-WIFI. | .10.100.254:80 zijn een htwoord vereist. De server geeft aan: | | |
| | Gebruikersnaam: | admin | | |
| | Wachtwoord: | **** | | |
| | | Inloggen Annuleren |] | |
| | | n | | - |

• Start de browser (bijv. Internet Explorer, Firefox of Chrome)

• Ga naar adres 10.10.100.254

• Log in op WiFi kaart met User name = admin Password = admin



Het onderstaande startscherm van de WiFi-kaart verschijnt.

| http://10.10.100.254/ | Windows Internet Explorer | | |
|--------------------------|---|------------------|-----------------------------------|
| 🗩 🗢 🙋 http://10.10 | 100.254/ | 💌 🗟 🗲 🗙 🛽 | ioogle |
| Favorites 66 http://10.1 | 0.100.254/ | 👌 • 🕤 · | 🖃 🍓 🔹 Page 🔹 Safety 🔹 Tools 🔹 🔞 🔹 |
| | | | 🔚 🗆 🔜 💥 English |
| | | | |
| | ∧Inverter information | | Help |
| Status | Inverter serial number | NLDN1520127W5006 | The device can be used as a |
| Wizard | Firmware version (main) | NL1-V1.0-0043-4 | wireless access point (AP |
| Wireless | Firmware version (slave) | ∨1.6-0018 | configure the device, or it can |
| VVIIeless | Inverter model | omnik1500tl | also be used as a wireless |
| Advanced | Rated power | 1500 W | mode) to connect the remote |
| Account | Current power | o w | server via wireless router. |
| Update | Yield today | 0 kWh | |
| Restart | Total yield | 97.3 kWh | |
| Reset | 10.100.254/ - Windows Internet Explorer Image: Step://10.100.0254/ Image: Step://10.10.100.254/ Image: Step://10.100.254/ Image: Step://10.100.254/ Image: Step://10.100.254/ Image: Step://10.100.254/ Image: Step://10.100.254/ Image | F09 | |
| | Last updated | 4 Min Ago | |
| | ✓Device information | | |
| | ✓Remote server information | | |



Klik op 'Wizard', en daarna op 'Start'.





| Status | Site Survey | | | | | Th | his step will help to connect |
|------------------|--|---|--|-----------------------------------|----------------------------------|--------------------------------|---|
| Wizard | SSID | BSSID | RSSI | Channel | | - UN | VLAN. If you do not find your |
| Wireless | Ziggo03F2D | 1c:3e:84:83:57:42 | 5% | 1 | | W | vireless router on the left list, |
| Advanced | 🔘 <u>Ziggo</u> | 1e:3e:84:83:57:43 | 10% | 1 | | a (| dd it manually. |
| | Seclusive2 | 00:22:75:22:58:60 | 81% | 10 | | | |
| count | H220N162C21 | 4c:ac:0a:16:2c:21 | 5% | 11 | | P ro | lease check your wireless |
| odate | | | | | | | |
| | | | | | | m | nethod and encryption |
| estart | | | | | | m al | nethod and encryption Igorithm. |
| Restart | | | | | | m al If | hethod and encryption Igorithm. 'your wireless router does no |
| Restart Reset | | | | | | m al lf br th | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network i |
| Restart Reset | | | | | | m al br th VA | hethod and encryption Igorithm. [•] your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | | of the selected WiFi net | | | | m al br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | phote. When RSS may be unstable, pi betwizen fin device | of the selected WiFinet rese select other evailab and router. | | | | m al br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | | of the selected WiFi net race select other availab and router. | | than 15%, th shorten the | connection Islance | m al br th VV | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set ne desired wireless network in Vireless interface. |
| Restart Reset | | of the selected WiFi net rase select other availab and router. | | than 15%, th shorten the Re | r connection istance Tresh | m al br th VA | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set ne desired wireless network i Vireless interface. |
| Restart Reset | DNote: When RSSI may be unstable, pl between the device | of the selected WiFi net race select other availat and router. | | than 15%, th shorten the Re | connection istance Tresh | m al br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | DNote: When RSS may be unstable, pl between the device Add wireless net | of the selected WiFi net race select other availat and router. work manually: | vork is lower is network or | than 15%, th shorten the Re | r connection istance Tresh | m al br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | Ditate, When RSS may be unstable, pl betwizen The device Add wireless net Network na (Network na (Network na | of the selected WiFi net rase select other evailat and router. work manually: me (SSID) Secture sensitive) | vark is lower ie network or ive2 | than 15%, th shorten the Re | e connection Islance Tresh | m al ff br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | phote: Wiren RS3 may be unstable, pi between the device Add wireless net Network na (<u>Note: case</u> Encryption | of the selected WiFi net tase select other availat and router work manually: me (SSID) Sectu sensitive) WPA2 | vork is lower e network or ive2 | than 15%, th shorten the Re | connection Islance Tresh | m al ff br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |
| Restart Reset | oNote: When RS3 may be unstable, pl between the device Add wireless net Network na (<u>Note: case</u> Encryption Execution | of the selected WiFi net take select other availab ind router work manually: me (SSID) Seclus sensitive) Seclus method WPA2 | vork is lower e network of ive2 'SK 💌 | than 15%, th shorten the Re | resh | m al ff br th V | nethod and encryption Igorithm. 'your wireless router does no roadcast SSID, please set he desired wireless network in Vireless interface. |

Nu verschijnt een lijst met draadloze netwerken. Selecteer het gewenste netwerk. De signaalsterkte (onder 'RSSI') moet minimaal 15% zijn, anders zal de verbinding niet stabiel zijn. Staat het netwerk niet in de lijst dan is het signaal te zwak! Druk op 'Next'

De 'Encryption Algorithm' moet soms aangepast worden. Verschijnt er een foutmelding bij het verbinden, verander dan 'TKIP' in 'AES' of andersom.



Vul op het volgende scherm tweemaal het wachtwoord van het draadloze netwerk in. Vink evt. 'Show Password' aan om het wachtwoord zichtbaar te maken. Klik op 'Next'

| | Please enter the wireless networ | k password: | Help |
|----------|---|---------------|-------------------------------|
| Status | | | Please make sure you have |
| Vizard | | | entered the correct password. |
| Vireless | | | |
| dvanced | | | |
| Account | Password (8-64 bytes) (Note: case sensitive) | •••• | |
| Jpdate | Re-enter password | ••••• | |
| Restart | | Show Password | |
| Reset | | | |
| | | | |
| | | | |
| | | | |
| | | Back Next | |
| | | | |
| | 1 2 3 | 4 5 | |
| | | | |
| | | | |



De verbinding wordt nu getest , en als deze in orde is verschijnt het volgende scherm. Klik op 'Next'

| | | and the second se |
|---------------------------------------|--|---|
| Obtain an IP address automatically | Enable 🗸 | Most systems support the function of DHCP to obtain IP address automatically. Please select disable and add it |
| IP address | 0.0.0.0 | manually if your router does not support such function. |
| Subnet mask | 0.0.0.0 | |
| Gateway address | 0.0.0.0 | |
| DNS server address | | |
| | | |
| | | |
| | Back Next | |
| 1 0 2 | | |
| | 4 0 | |
| | Obtain an IP address <u>automatically</u> IP address Subnet mask Gateway address DNS server address | Obtain an IP address Enable IP address 0.0.0.0 Subnet mask 0.0.0.0 Gateway address 0.0.0.0 DNS server address 0.0.0.0 Back Next |

11



Bij WiFi-kaartjes met een serienummer beginnend met '160......' of hoger verschijnt onderstaand scherm. Het is belangrijk dat het AP-netwerk van het WiFi-kaartje dat standaard een onbeveiligd netwerk is, beveiligd wordt met een wachtwoord.

- Vink 'Change the encryption mode for AP' aan.
- Selecteer 'WPA2PSK' voor de Encryption mode.
- Geef een wachtwoord op, bijv. hetzelfde wachtwoord als van uw lokale netwerk.
- Klik op 'Next'.

| | | Help |
|---|--|---|
| Status | Enhance Security | |
| Wizard Wireless Advanced Upgrade Restart Reset | You can enhance your system security by choosing the following methods Hide AP Change the encryption mode for AP Encryption mode WPA2-PSK WPA encryption Encryption algorithm • TKIP • AES • TKIPAES | Hide AP The SSID of the AP network will be invisible if you hide the AP. Please enter the SSID manually when you need to connect to AP next time. Change the encryption mode for AP If you set password for the AP network, you will need to enter the password to connect to AP. |
| | Password (8 to 63 PASSWORD characters) | Change the user name and password for Web server |
| | Change the user name and password for Web server | If you change the username and password for the web server, you will need to enter the new username and password to get access to the setting page. |
| | 1 2 3 4 5 6 | |



De configuratie is nu voltooid. Klik op 'OK'



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Nu verschijnt onderstaand scherm dat aangeeft dat nu de configuratie op de Omnik Portal uitgevoerd dient te worden.





Op de omvormer verschijnt het IP –adres; dit betekent dat de omvormer is verbonden met router.



TL-type omvormer



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Configuratie op de Omnik Portal

www.omnikportal.com

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LET OP: als u al eerder op de portal hebt geregistreerd, dan kunt u deze stap overslaan. Heeft u een nieuwe WiFi-kaart of WiFi-kit, dan moet wel het nieuwe serienummer nog toegevoegd worden, na aanloggen, onder 'Settings' -> 'Device' -> 'Add'. Zie pagina 25.

Op de Omnik Portal heeft elk systeem een naam: de 'Site Name'. Verder zijn login-gegevens nodig. Bedenk een passende Site Name en bepaal e-mail adres en wachtwoord om straks in te kunnen loggen op de Omnik Portal. **Noteer deze gegevens!**



Start de browser en ga naar www.omnikportal.com . Het onderstaande scherm verschijnt. Klik op 'Register Now'.





Vul e-mail adres en wachtwoord tweemaal in en klik op 'Next'





Vul de Site Name, adres en andere gegevens in (vervolg zie volgende pagina)

| Site Name | demosystem | *Maximum 20 Letters |
|----------------|---------------|-------------------------|
| Upload Image | Default.jpg | 1 |
| | | |
| | | |
| | AN INCOME | |
| | | |
| | | |
| | OK | |
| Country | Netherlands - | |
| Country | Netherlands |] - |
| Province/State | Noord-Holland | • |
| City | Laran NH | - |
| oly | | |
| Street | De Dissel | Locate Your Site On Map |
| 70.0.4 | 4044.70 | |
| ZIP Code | 1251 ZB | |

| nik New Energy | | Tijdzone |
|---------------------|-----------------------------------|---|
| Timezone | (GMT +01:00) Amsterdam, Berli | Enable the DST? |
| Number Format | 1 234 567,89 | Automatische zomertijd |
| Temperature Unit | °C | Komma als decimaalteken |
| System Size(kWp) | 2.4 | Temperatuur in Celsiu |
| Feed-in Tariff(FIT) | 0,20 EUR€ ▼ | Systeemgrootte In kiloWatt met komma |
| Panel Type | 3S 💌 | Electriciteitsprijs in € met komma |
| Inverter Type | Omnik | Type zonnepanelen (niet verplicht) |
| Description | Demo systeem van Genieus Solar | Omschrijving van het systeem |
| | Make This Site Public | |



| Registration Datalogger S/N | 604955428 | *• | BELANGRIJK: Vul hier het serienummer |
|--------------------------------|--------------------------------|----------------------------|---|
| Installer | Genieus Solar | | van de WIFI- kaart in, dit zijn de getallen van |
| Contact | | | net AP-netwerk. |
| Name | Frans Majoor | | |
| Phone | +31 35 5336866 | | Klik op 'Complete' |
| | Complete Cancel | | |
| | | | |
| | | | |
| 1.0.2.2 © IGEN Tech Sola | r Inverter Manufacturers Omr | ik Inverter Solar Design | |
| | | | |

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Wacht op de deze melding. Registratie sucesvol.





Hierna kan ingelogd worden met het gekozen e-mail adres en wachtwoord.





Onder 'Settings' -> Device' is de omvormer zichtbaar, deze zal elke 5 minuten de opbrengstgegevens naar de Omnik Portal versturen.

| PV Owner - Windows Internet Explorer | | | | |
|--|--|---------------------|--------------------------------------|---|
| 💽 🔻 🙋 http://www.omnikportal.com/Terminal/ | TerminalMan.aspx?pid=10364&key=7K7G779 | 💌 🗟 🔂 🗙 🚼 G | ooge | • |
| stand Bewerken <u>B</u> eeld <u>F</u> avorieten E <u>x</u> tra <u>H</u> ep | | | | |
| Favoricton 🏤 🌄 Aanbevolen websites 👻 🔊 W | eb Slice-galerie 👻 | | | |
| PV Owner | | 👌 🔹 🗟 🕐 🖸 | 🗄 🖶 🝷 <u>P</u> agina 👻 Be <u>v</u> e | aliging • Extra • 🔞 • |
| | | | 🚝 中文 | : 📑 🗱 English 🛛 🧖 |
| | | | | |
| | rter | genieuss | solar@gmail.co | m Logout |
| Solar Inte | | | | |
| | | | | |
| Home My Site Pul | blic Sites Account | | | |
| | | | | |
| demosystem 💌 | Overview Re | al Time History Ale | ert Report | Settings |
| | | | | |
| | | | <u> </u> | Alerts: 1 items |
| Site Device Alert | | | | |
| | | | | |
| Datalogger C/N Datalog | | Investor Type C | last llast | datad |
| Datalogger S/N Datalog | ger type inverter S/N | Inverter Type S | tatus Last opac | Jaceo |
| 1 604955428 🕠 🕅 Embed | ded WiFi NLDN1520127W5006 🛽 | 🖁 🖄 Omnik | 2013-09-05 | 11-02-25 |
| | | | | 11.02.23 |
| | Add | | | |
| | Add | 😜 Internet | | 11.02.23 Image: Second sec |



Onder 'Settings' -> 'Alert' kunnen e-mail adressen ingesteld worden voor het ontvangen van Alerts.

| | | ar Inverter | | | ge | nieussola | ∎ ¤ r@gmail.o | Þ文 ■器Englis COM Logou | sh 🔮 |
|-------------------------|--------------------------|-----------------------|--------------------|-----------|------------|-----------|------------------|----------------------------|--------|
| Home | My Site | Public Sites | Account | | | | | | |
| demosyste | m | | Overview | Real Time | History | Alert | Report | Settings | |
| | | | | | | | | Alerts: 1 items | \$ |
| Site D | Device Aler | t | | | | | | | \neg |
| | Type of A | Alert Notification: 🗵 | Email | | | | | | |
| | | Email for Alerts: ge | nieussolar@gmail.o | :om 🗘 | | | | | |
| | | | | | | | | | |
| | | | ОК | | | | | | |
| achten op http://www.om | nikportal.com/Terminal/T | erminalMan.aspx?pid=1 | | | 😜 Internet | | | 🛛 🔹 🔍 100% | , - |



Checklist bij het niet functioneren van de WiFi-verbinding (geen data op de Omnik Portal)

- Is het serienummer van de WiFi-kaart op het display van de omvormer te zien?
- Is het IP-adres op het display van de omvormer te zien of staat er '0.0.0.0' (= geen verbinding)?
- Is het signaal van de router sterk genoeg (zie pagina over Wizard / RSSI)?
- Is op de Omnik Portal het juiste serienummer van de WiFi-kaart ingevuld?