



## **KC-2W (N2K and NMEA0183 Bidirectional Converter)**

### **Webpage configuration function Instruction Guide**

*\*\*Applicable for KC-2W units updated with Firmware: N2K\_0183\_ 0.6.5*

With the ONWA KC-2W firmware **N2K\_0183\_ 0.6.5** update, user can use a PC browser to configure KC- 2W settings, such as output baudrate, output update rate, change WIFI username and password etc..

***Note: This function can be used only by KC-2W with WIFI module***

## **Contents**

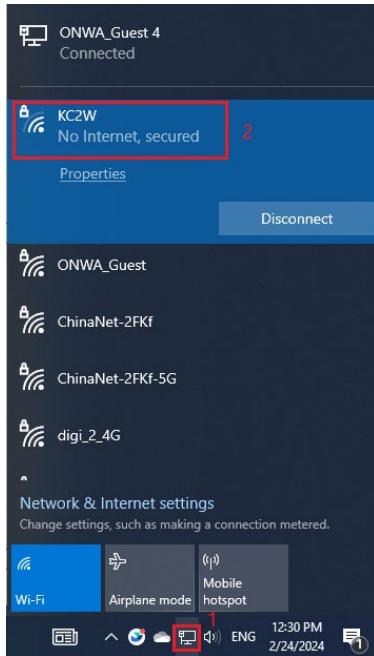
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# 1. Connect to the Wi-Fi of KC2W and log in to the configuration webpage for setup

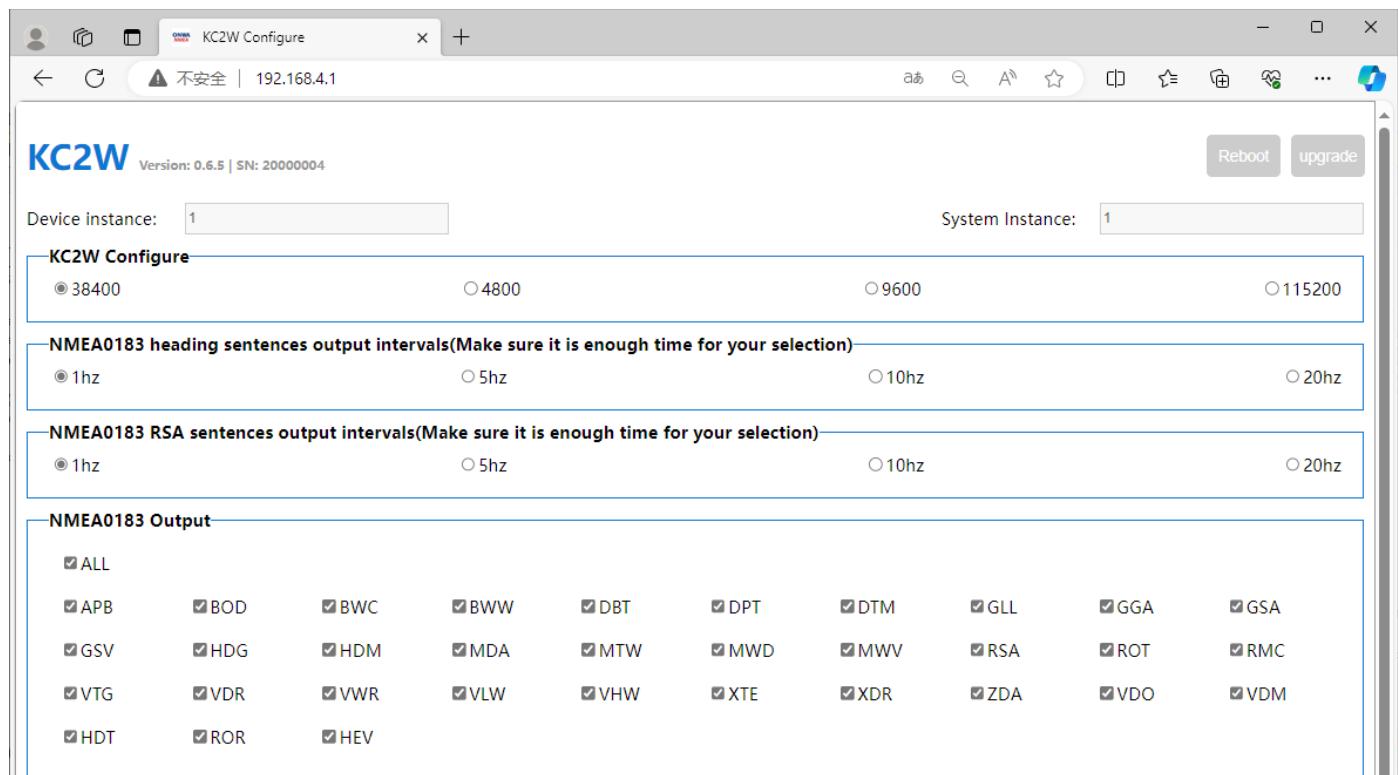
## 1) Connect the PC Wi-Fi to KC-2W

Step 1. Move the cursor to the Wi-Fi connection icon (1) and left click to open Network and Internet settings

Step 2. Connect to KC2W Wi-Fi connection (2)



## 2) Open your Internet browser (example IE or Chrome) and type <http://192.168.4.1>



**NMEA2000 Output**

ALL

126992     127237     127245     127488     127250     127251     127252     127258

128259     128267     128275     129025     129026     129029     129033     129038

129039     129040     129041     129044     129283     129284     129291     129539

129540     129793     129794     129795     129797     129798     129801     129802

129809     129810     129811     129812     130306     130310     130311     130312

130578

**Wifi Setting**

NMEA0183 Input monitor: 10110      N2K to NMEA0183 monitor: 10111

Spot name:       Spot passwd:

Spot IP 192.168.4.1

Wifi name:       Wifi passwd:

Wifi ip:

**Setting Wifi**

3) Once the KC2W webpage is open, You can now configure all settings of the ONWA KC-2W, simply click on the item you want to change.

Example: You want to change KC-2W NMEA0183 output baudrate from 38400 (default) to 9600, All you need to do is simply click “9600”.

Then you will see a “success” message appear on the screen, that means the configuration is accepted.

**KC2W** Version: 0.6.5 | SN: 20000004      [Reboot](#) [upgrade](#)

Device instance:       System Instance:

**KC2W Configure**

38400       4800       9600       115200

**NMEA0183 heading sentences output intervals(Make sure it is enough time for your selection)**

1hz       5hz       10hz       20hz

**NMEA0183 RSA sentences output intervals(Make sure it is enough time for your selection)**

1hz       5hz       10hz       20hz

**NMEA0183 Output**

ALL

APB     BOD     BWC     BWW     DBT     DPT     DTM     GLL     GGA     GSA

GSV     HDG     HDM     MDA     MTW     success MWD     MWV     RSA     ROT     RMC

VTG     VDR     VWR     VLW     VHW     XTE     XDR     ZDA     VDO     VDM

HDT     ROR     HEV

## 2. How to Change the Wi-Fi Network Name or Password on a KC2W Device

- 1) After editing the 'Spot name' or 'Spot passwd' as shown in the figure below, click on 'Setting Wifi' at the bottom. If the interface displays 'success', it means that the modification was successful. Next, you only need to log in with the new Wi-Fi name and password. Please follow the instructions below to proceed.

NMEA0183 Output

NMEA2000 Output

Wifi Setting

1

2

3

success

- 2) Scroll to the top of the webpage and click on 'Reboot' in the upper right corner of the page to restart the KC2W device (you can also perform this step by power cycling the KC2W).

KC2W Version: 0.6.5 | SN: 20000004

4

Reboot

3) Move the cursor to the Wi-Fi connection icon on your computer and left-click to open the Network and Internet Settings. In the Wi-Fi list, find the Wi-Fi name you saved and click on it to connect. Wait for the window shown below to appear, enter the saved password, and click 'Next' to wait for the connection to be successful.



### 3. Wi-Fi Settings for KC2W

- 1) Enter the Wi-Fi name and password of the Wi-Fi you want to connect to in "Wifi name" and "Wifi passwd" respectively. Next, click on "Setting Wifi" at the bottom of the webpage and wait for the "success" prompt to appear on the page.
- 2) Power on the KC2W device again.
- 3) Reconnect your computer to the KC2W Wi-Fi network: Open the Wi-Fi list and connect to the KC2W's own Wi-Fi network (note that it is the Wi-Fi network mentioned in the 'Spot name' on the webpage).
- 4) Refresh the previously opened KC2W configuration webpage or log in again. Scroll down to the bottom of the webpage to see the 'Wifi ip' address displayed below 'Wifi name'.

Wifi Setting	
NMEA0183 Input monitor: 10110	
Spot name:	<input type="text" value="KC2W"/>
N2K to NMEA0183 monitor: 10111	
Spot passwd:	<input type="text" value="12345678"/>
Spot IP 192.168.4.1	
Wifi name:	<input type="text" value="OPPO"/>
Wifi passwd:	<input type="text" value="12345678"/>
Wifi ip:192.168.1	

- 5) Log in to the KC2W configuration webpage using the recently added Wi-Fi: Open the Wi-Fi list again, find the Wi-Fi you just added (corresponding to the "Wifi name" on the webpage), connect to it, and once connected, copy the address from "Wifi ip" and paste it into the browser to log in to the webpage.

KC2W Version: 0.6.5 | SN: 2000004

Device instance: 1 System Instance: 1

**KC2W Configure**

38400 4800 9600 115200

**NMEA0183 heading sentences output intervals(Make sure it is enough time for your selection)**

1hz 5hz 10hz 20hz

**NMEA0183 RSA sentences output intervals(Make sure it is enough time for your selection)**

1hz 5hz 10hz 20hz

**NMEA0183 Output**

ALL

<input checked="" type="checkbox"/> APB	<input checked="" type="checkbox"/> BOD	<input checked="" type="checkbox"/> BWC	<input checked="" type="checkbox"/> BWW	<input checked="" type="checkbox"/> DBT	<input checked="" type="checkbox"/> DPT	<input checked="" type="checkbox"/> DTM	<input checked="" type="checkbox"/> GLL	<input checked="" type="checkbox"/> GGA	<input checked="" type="checkbox"/> GSA
<input checked="" type="checkbox"/> GSV	<input checked="" type="checkbox"/> HDG	<input checked="" type="checkbox"/> HDM	<input checked="" type="checkbox"/> MDA	<input checked="" type="checkbox"/> MTW	<input checked="" type="checkbox"/> MWD	<input type="checkbox"/> MWV	<input checked="" type="checkbox"/> RSA	<input checked="" type="checkbox"/> ROT	<input checked="" type="checkbox"/> RMC
<input checked="" type="checkbox"/> VTG	<input checked="" type="checkbox"/> VDR	<input checked="" type="checkbox"/> VWR	<input checked="" type="checkbox"/> VLW	<input checked="" type="checkbox"/> VHW	<input checked="" type="checkbox"/> XTE	<input checked="" type="checkbox"/> XDR	<input checked="" type="checkbox"/> ZDA	<input checked="" type="checkbox"/> VDO	<input checked="" type="checkbox"/> VDM
<input type="checkbox"/> HDT	<input type="checkbox"/> ROR	<input type="checkbox"/> HEV							

**Note: For a more stable usage experience, it is recommended not to use KC2W's hotspot mode and station mode simultaneously.**

*Hotspot mode: KC2W's own Wi-Fi, for example, when a phone shares its network hotspot.*

*Station mode: KC2W functions as a Wi-Fi client, for example, when a phone connects to a router, it operates in station mode.*

## 4. Using TCP Data over the Network

**Wifi Setting**

NMEA0183 Input monitor: 10110

N2K to NMEA0183 monitor: 10111

Spot name: KC2W

Spot passwd: 12345678

Spot IP 192.168.4.1

The NMEA0183 data input/output can be received through the network ports "10110" and "10111".

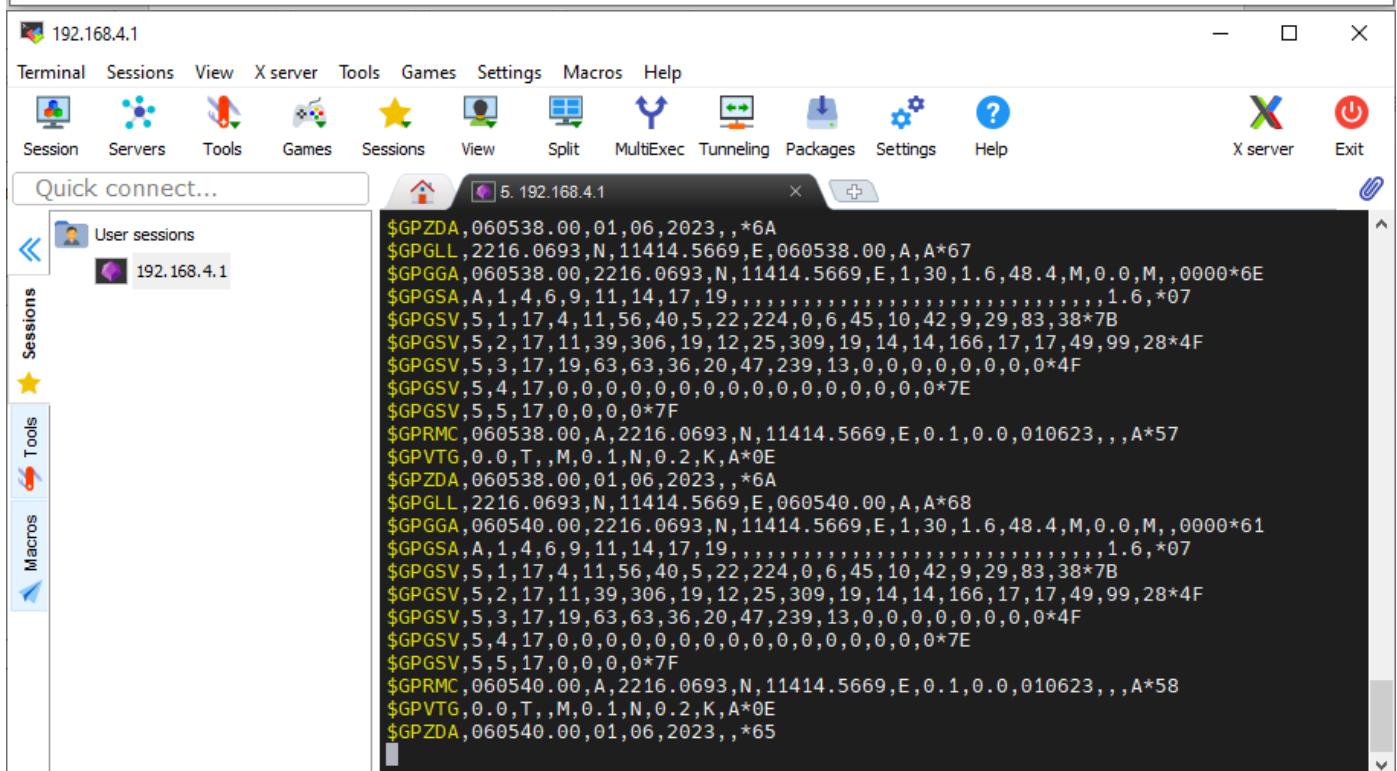
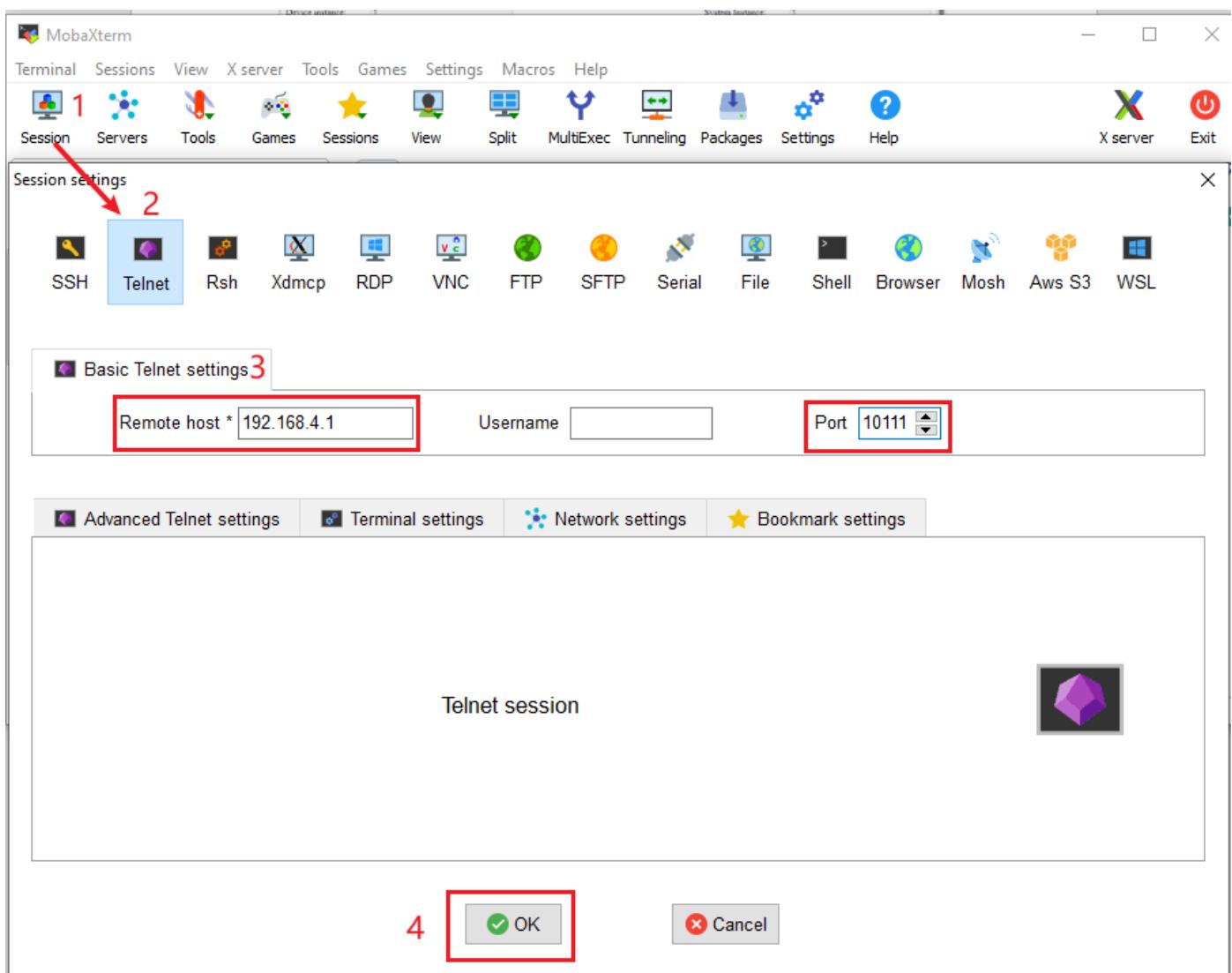
Additionally, these data can be shared with other products like ONWA DigiNav. The details are as follows:

### 1) Receive input and output NMEA0183 data

10110: Receive the NMEA0183 data inputted to KC2W

10111: Receive the NMEA0183 data converted and outputted by KC2W from N2K

Open a remote network tool with TCP connection capability, such as MobaXterm, and then follow the instructions in the figure below to establish a connection. You will be able to see the received data.



## 2) Sending NMEA0183 Data to ONWA DigiNav

Open the PC or Pad version of DigiNav and navigate to the TCP settings page. The following instructions will use the PC version of DigiNav as an example:

In the "Target TCP" section of the "Input settings" module, enter the "Host" (192.168.4.1) and "Port" (10110/10111). Check the "Enabled" option. When the "State" displays "Connected," it indicates a successful connection. DigiNav has started receiving NMEA0183 data from either "10110" or "10111."

