

Configure Antisense W2K-2 and MobilePilot for NMEA2000

This page describes how to configure the module Antisense W2K-2 NMEA2000 ↔ WiFi module so it can communicate with the Searebbel MobilePilot.

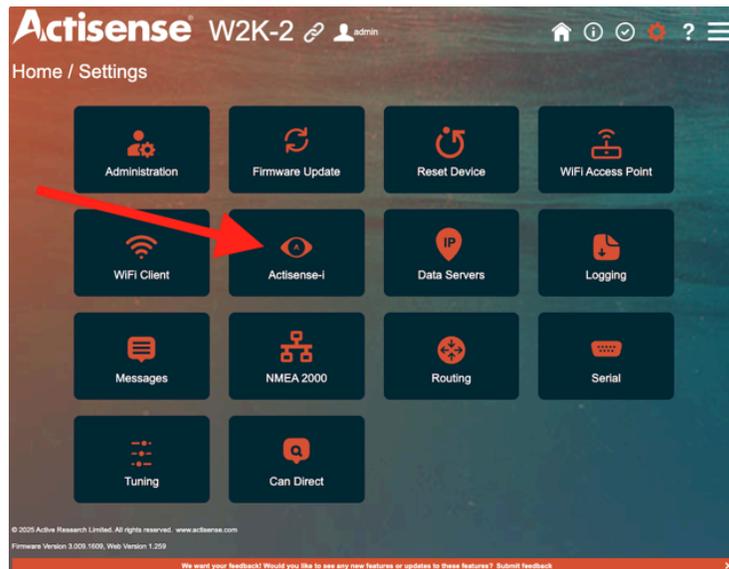
- [Configuration of W2K-2](#)
- [Connection to the MobilePilot](#)

Configuration of W2K-2

1. Connect your Actisense W2K-2 to the NMEA connection and confirm that the Power LED is on.



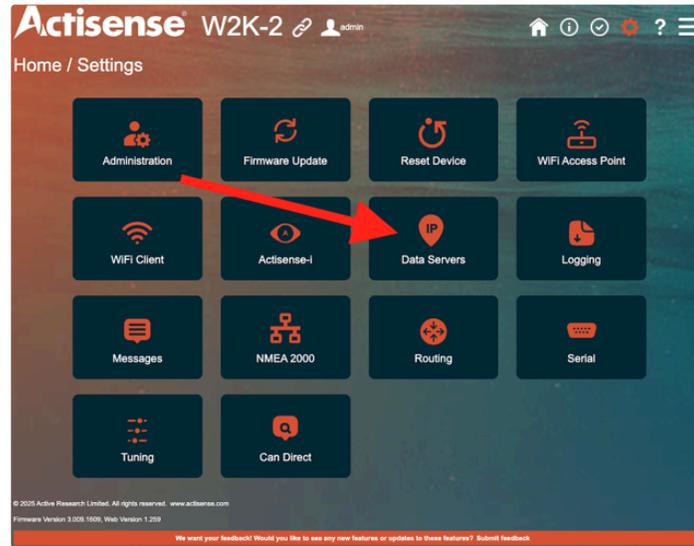
2. Connect to the W2K-2 Access Point via Wi-Fi with your PC or device. You can access the W2K-2 configuration page from any web browser. Enter the IP address: <http://192.168.4.1>
3. Go to Settings and click on “Actisense-i”



4. Check that the configuration matches the one shown in the picture below

Parameter	Enable Logging	Smart Timer ⓘ	Max Timer ⓘ	Smart Threshold
Battery Voltage	<input checked="" type="checkbox"/>	<input type="text" value="1"/>	<input type="text" value="60"/>	<input type="text" value="0.10"/>
CAN Bus State	<input checked="" type="checkbox"/>	<input type="text" value="60"/>	<input type="text" value="600"/>	

5. Go back to Settings and click on “Data Servers”

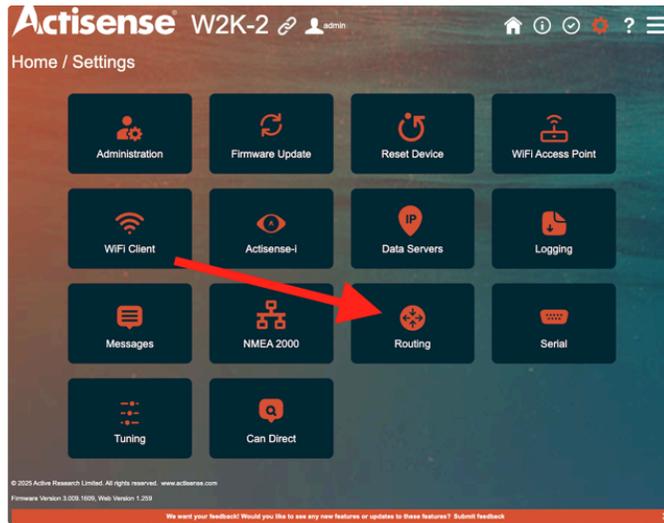


6. Check that the configuration matches the one shown in the picture below, where the Server “DS1” is enabled in “Both” directions, with protocol “TCP” and Port “60001”

Home / Settings / Data Servers

Server	Direction	Protocol	Port
DS1	<input checked="" type="checkbox"/> Both	TCP	<input type="text" value="60001"/>
DS2	<input type="checkbox"/> Both	TCP	<input type="text" value="60002"/>
DS3	<input type="checkbox"/> Both	TCP	<input type="text" value="60003"/>

7. Go back to Settings and select “Routing”



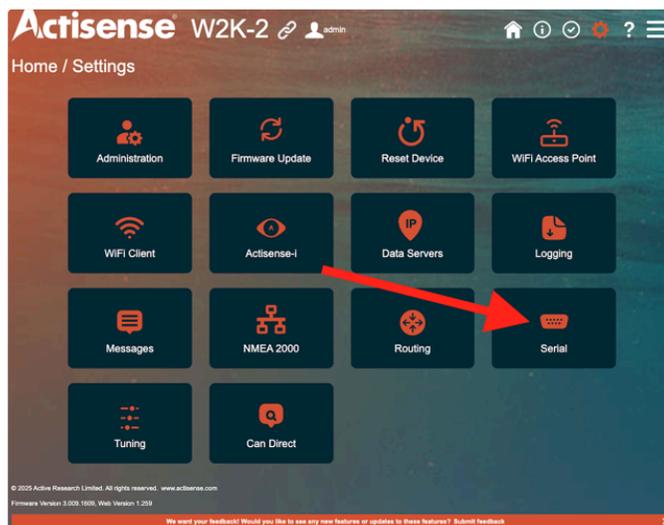
8. Check that the configuration matches the one shown in the picture below

Home / Settings / Routing

The matrix shows routes between both **real** and **virtual** interfaces.
 ▲ Basic routing can be overridden by Advanced Routing rules.

Destination	N2KV1	N2KV2	N2KV3	DS1	DS2	DS3	WS1
Source	N2KV1	N2KV2	N2KV3	DS1	DS2	DS3	WS1
N2K				↑			↑
DS1	↑						
DS2							
DS3							

9. Go back to Settings and select “Serial”



10. Check that the configuration matches the one shown in the picture below: the “DS1” interface must have “Tx Format” set to “NGT Actisense”, then click on “Filter”.

Interface	Name	Mode	Speed	Direction	Load	Tx Format	Filter
DS1	<input type="text"/>		500000	← →	0% 0%	NGT Actisense	Filter +
DS2	<input type="text"/>		500000	← →	0% 0%	NMEA 0183	Filter +
DS3	<input type="text"/>		500000	← →	0% 0%	NMEA 0183	Filter +
WS1	<input type="text"/>		500000	→	0%	N2K ASCII JSON	Filter +

11. For “DS1” it is necessary to select *at least* the following PGNs: 129026, 129283, 129284. Select both “Rx” and “Tx” and press “Save” at the bottom.

Filter for interface : DS1

PGNs Sentences

PGN (197)	Rx (3)	Tx (3)
129000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
128792	<input type="checkbox"/>	<input type="checkbox"/>
128793	<input type="checkbox"/>	<input type="checkbox"/>
129025 Position, Rapid Update	<input type="checkbox"/>	<input type="checkbox"/>
129026 COG & SOG, Rapid Update	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
129027 Position Delta, High Precision Rapid Update	<input type="checkbox"/>	<input type="checkbox"/>
129028 Altitude Delta, High Precision Rapid Update	<input type="checkbox"/>	<input type="checkbox"/>
129029 GNSS Position Data	<input type="checkbox"/>	<input type="checkbox"/>
129033 Local Time Offset	<input type="checkbox"/>	<input type="checkbox"/>
129038 AIS Class A Position Report	<input type="checkbox"/>	<input type="checkbox"/>
129039 AIS Class B Position Report	<input type="checkbox"/>	<input type="checkbox"/>
129040 AIS Class B Extended Position Report	<input type="checkbox"/>	<input type="checkbox"/>
129041 AIS Aids to Navigation (AtoN) Report	<input type="checkbox"/>	<input type="checkbox"/>
129044 Datum	<input type="checkbox"/>	<input type="checkbox"/>
129045 User Datum Settings	<input type="checkbox"/>	<input type="checkbox"/>
129283 Cross Track Error	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
129284 Navigation Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
129285 Navigation - Route/WP information	<input type="checkbox"/>	<input type="checkbox"/>
129291 Set & Drift, Rapid Update	<input type="checkbox"/>	<input type="checkbox"/>

Save

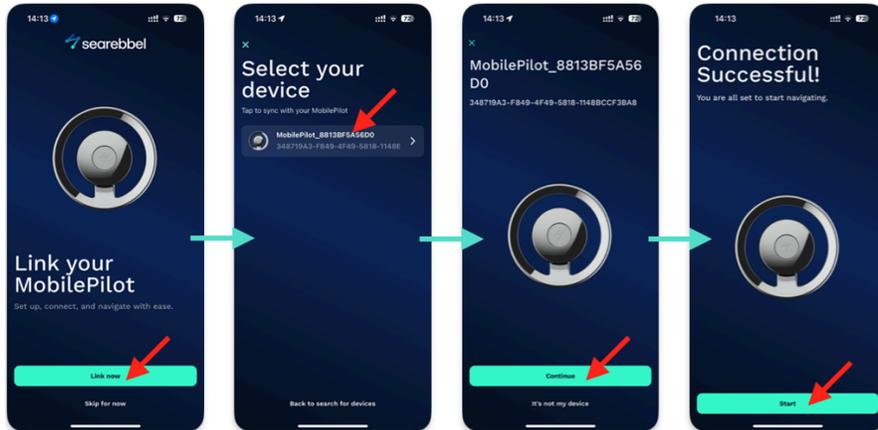
Connection to the MobilePilot

Confirm that the MobilePilot can connect to the Antisense W2K-1 module by using the Searebbel App.

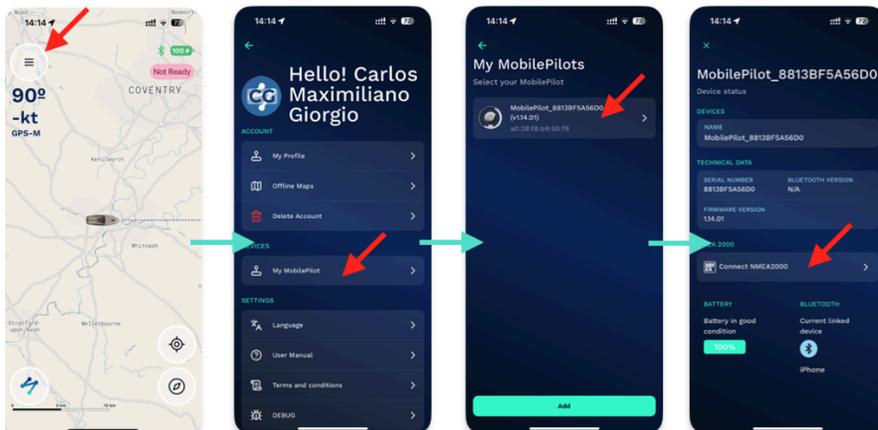
1. Check the wifi SSID and password at the back of the Antisense W2K-1



2. Open the Searebbel app and connect to your MobilePilot



3. Navigate to the configuration page of your MobilePilot.



4. Connect to the Antisense W2K-1 WiFi network and confirm that the connection is successful by checking the LED on the MobilePilot is fixed and colour yellow.

