IOTBuddy 154-xxxx-xx Web Configuration Senva Sensors Instruction Manual

Web Configuration Manual
IoTBuddy
Senva Sensors
1825 NW 167Th Place Beaverton, OR 97006
154-xxxx-xx

Contents

154-xxxx-xx Web Configuration Senva Sensors

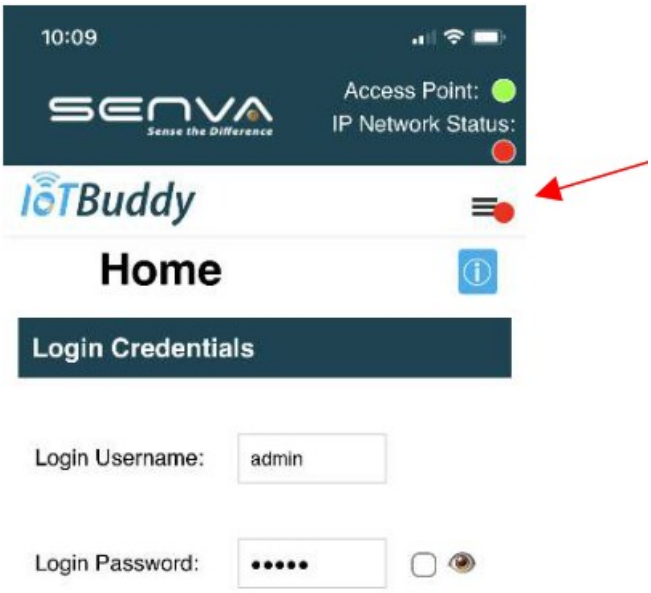
Rev.	Release Date	By	Description of Change	ECR
0A			Initial Release	—

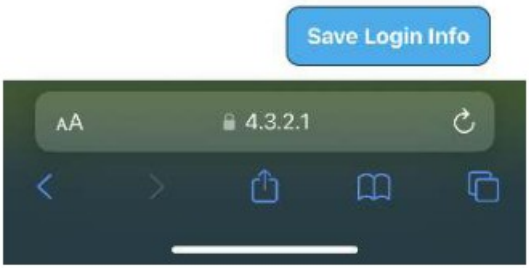
Wi-Fi Connection

Follow installation instructions to wire IoTBuddy to desired Modbus or analog device.
Once powered, IoTBuddy will host an access point for 5 minutes. To re-enable the access point, press the bu9on on the IOTBuddy.

QR Code Connection

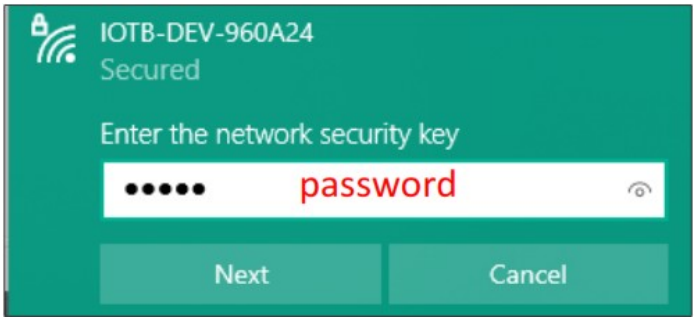
1. Scan the QR code on the label of the IoTBuddy device. Join the network.
2. Open a browser; go to **https://4.3.2.1**
3. A non-private connection status may appear, please approve and “visit website”
   a. You may need to hit “refresh” aAer clicking the “visit website” link.
4. Log in using the default credentials:
   • username: admin
   • password: admin
5. Navigate using the 3-line “hamburger” menu on the top right. See following sections for explanation of each setup screen.



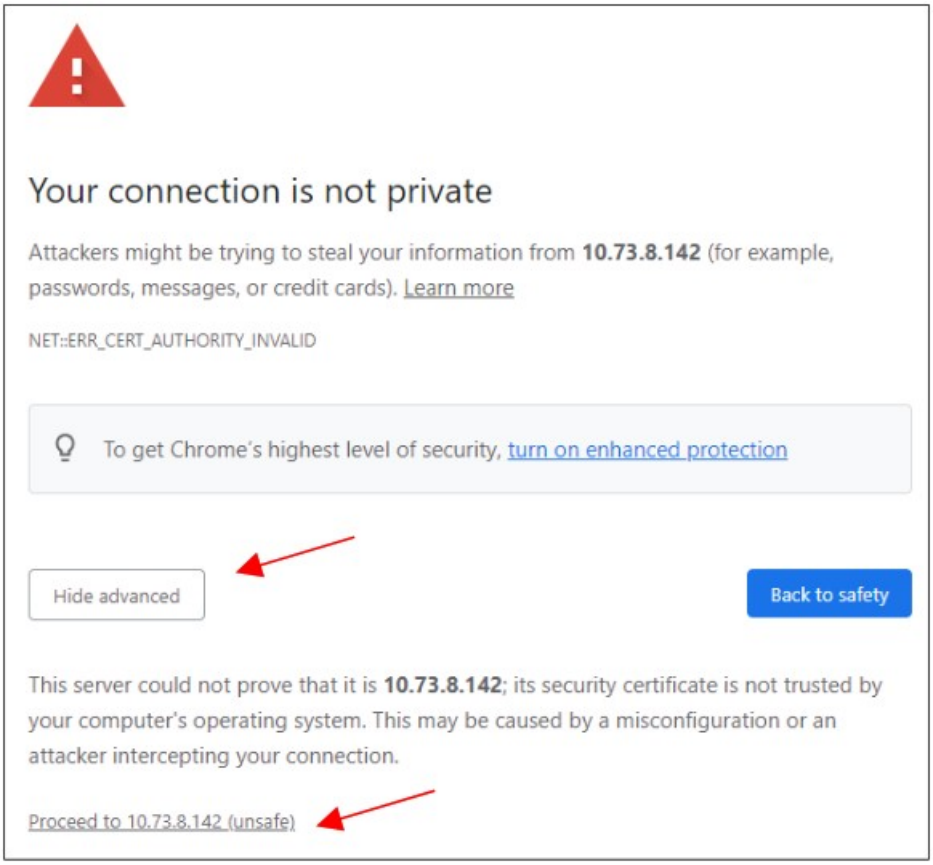


Manual Connection

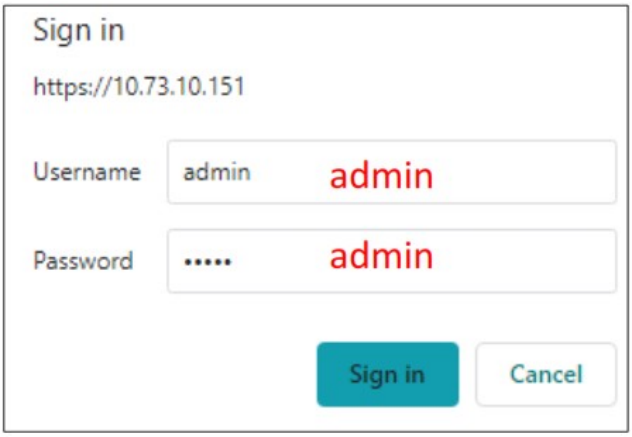
1. Open your Wi-Fi network page and find the IOTB that matches the serial number printed on your IoTBuddy label.
2. Enter the network security key: password



3. Go to **https://4.3.2.1**
4. Your browser may indicate a non-private connection. Find the “proceed” bu9on near the bo9om of the warnings; you may need to click the subtle link labeled “advanced” or “show more” first.



5. Log in using the default credentials:
   • username: admin
   • password: admin

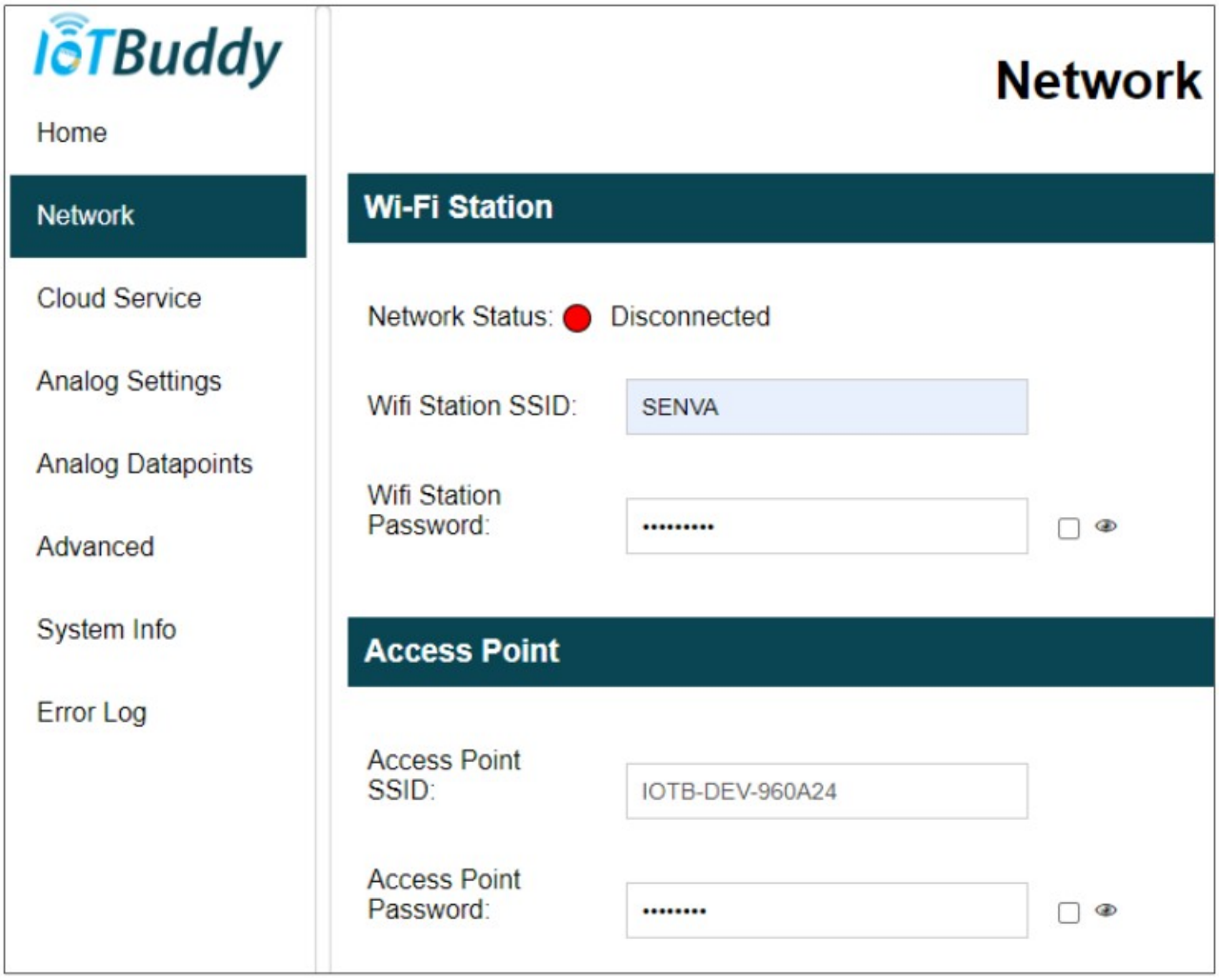


6. You may change your username and password on the first screen. Once you click “save,” you will be logged

out and prompted to log in again with the new credentials.

Network Configuration

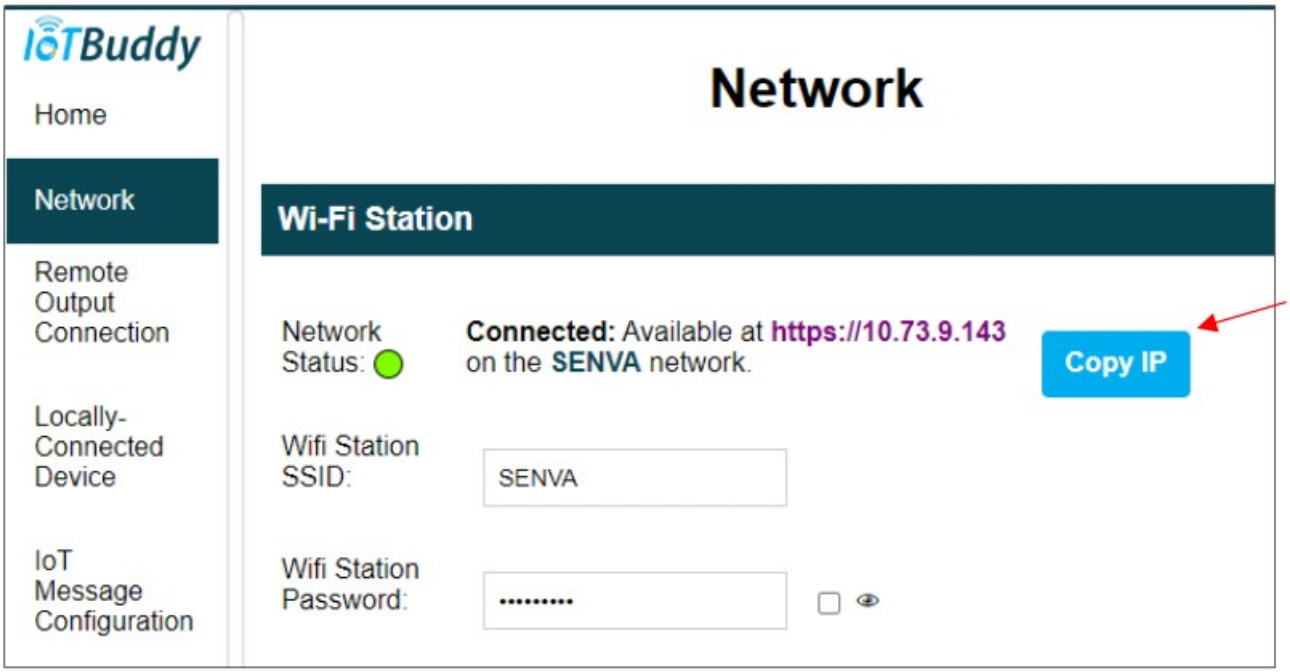
1. Enter the credentials for the existing Wi-Fi network you wish to connect to the IoTBuddy.
2. You may change your access point password on this page, if desired. If you chose a static IP assignment, please enter it in the “security and addressing” section.



3. When you hit “save changes & connect” bu9on, you will need to disconnect and reconnect to the access point IOTB-xxxxxx. Click the “reload” bu9on on your web browser.
4. For Static, enter your assigned IP address into your browser. You will be prompted with anothernon-private connection, please proceed. Log in again using your new login credentials.

   For DHCP, navigate to the network tab and copy your new IP address. Paste the new IP address into your browser. You will be prompted with another non-private connection; please proceed.

   Log in again using your new login credentials.

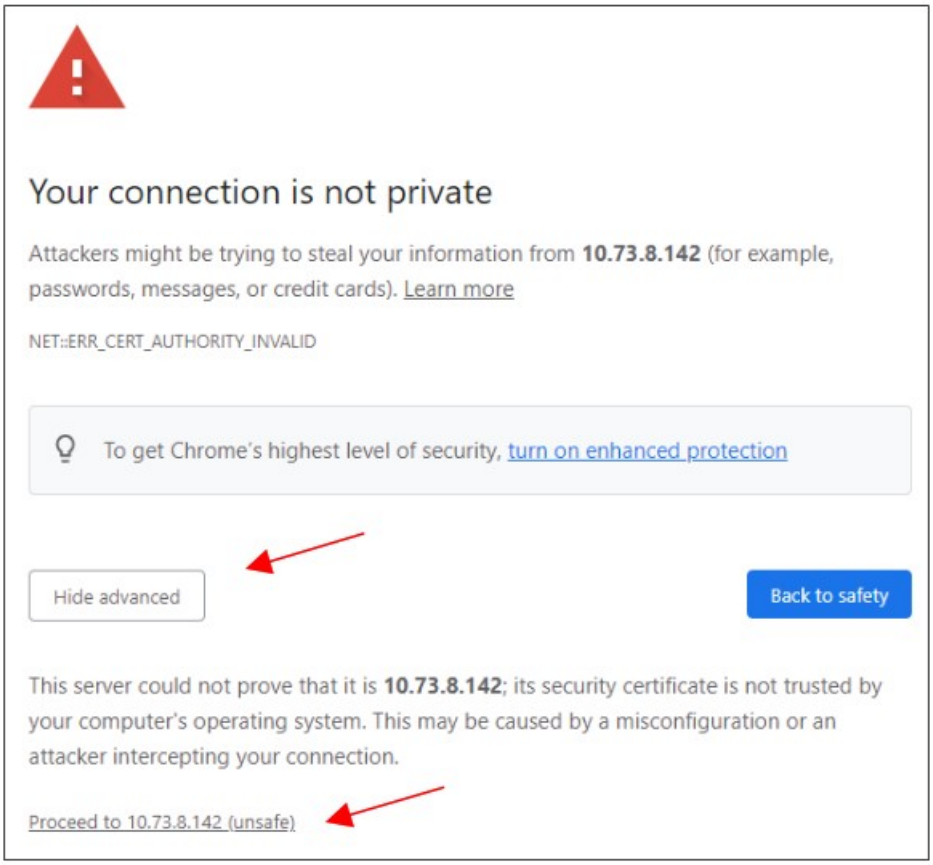


5. You may now connect to your designated Wi-Fi network.

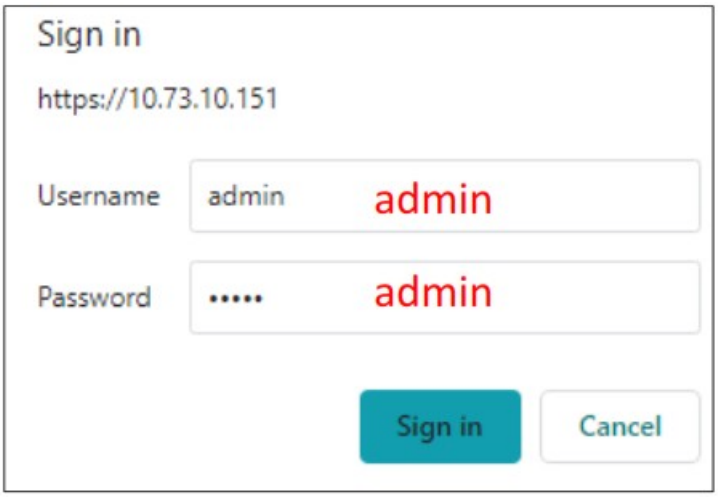
Ethernet or Power over Ethernet Connection

Follow installation instructions to wire IoTBuddy to desired Modbus or analog device.

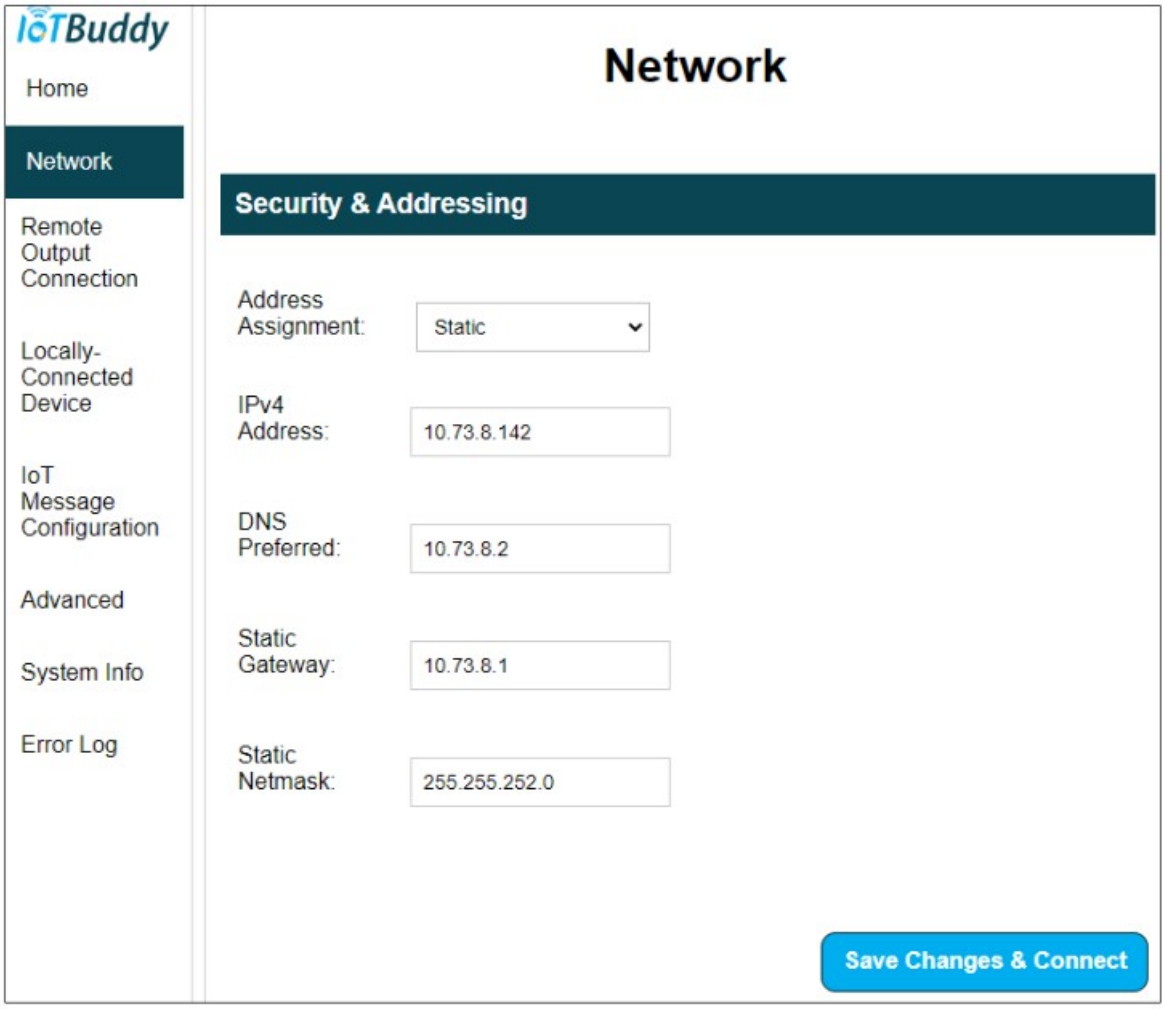
1. For static IP addressing, connect RJ45 Ethernet plug to the IoTBuddy and directly to your computer. Press the bu9on on the IoTBuddy once. Using a web browser, go to **https://3.2.1.1**; it may take a few seconds before this address is accessible. You may then set up your desired static
   IP address using the web interface (see step 5).
   Note: If a static IP address has already been assigned, the above process will not work.
   The designated IP address can be easily retrieved Senva Sync app.
   For DHCP, connect RJ45 Ethernet plug to IoTBuddy and to your network. Determine your automatically assigned IP address and enter it into your web browser using “https://”.
   Note: The assigned IP address can be easily retrieved Senva Sync app.
   Your browser may indicate a non-private connection. Click “Advanced” and then “Proceed to xx.xx.x.xxx (unsafe).” Once signed in, you will be able to update security se6ngs to enhance privacy.
2. Your browser may indicate a non-private connection. Click “Advanced” and then “Proceed to xx.xx.x.xxx (unsafe).”



3. Log in using the default credentials:
   • username: admin
   • password: admin



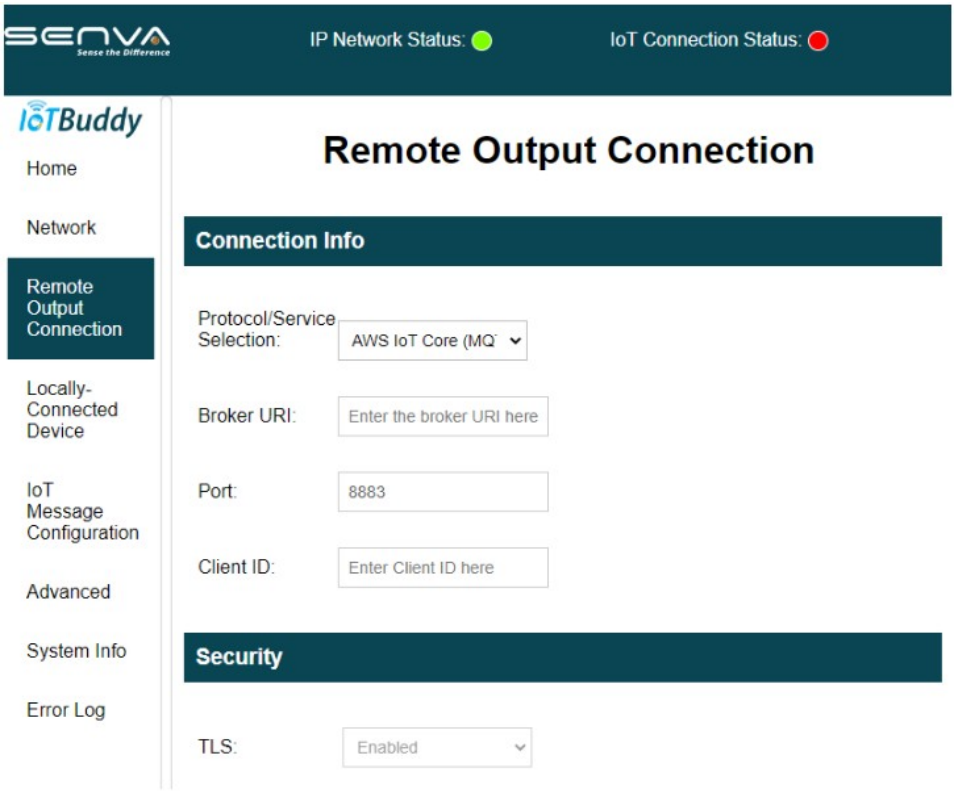
4. You may change your username and password on the first screen. Once you click “save” you will be logged out and prompted to log in again with the new credentials.
5. For static IP addressing, navigate to the “network” tab. Select “static” address assignment and enter the rest of your credentials in the associated boxes. Once you click “Save Changes and Connect” you will be logged out and prompted to log in again, with the new IP address and credentials.
   Note: The ethernet connection or the power to the IOTBuddy will need to be disconnected then reconnected for the new address to take effect.



6. Once connected, you will see the “network status” icon at the top of the page turn green.

Cloud Service Setup (Remote Output Connection)

1. Choose your MQTT protocol from AWS IoT Core over MQTT, Azure IoT Hub over MQTT, or plain MQTT. Enter your cloud service or broker information.
2. Enter client certificates in the Security section if applicable.

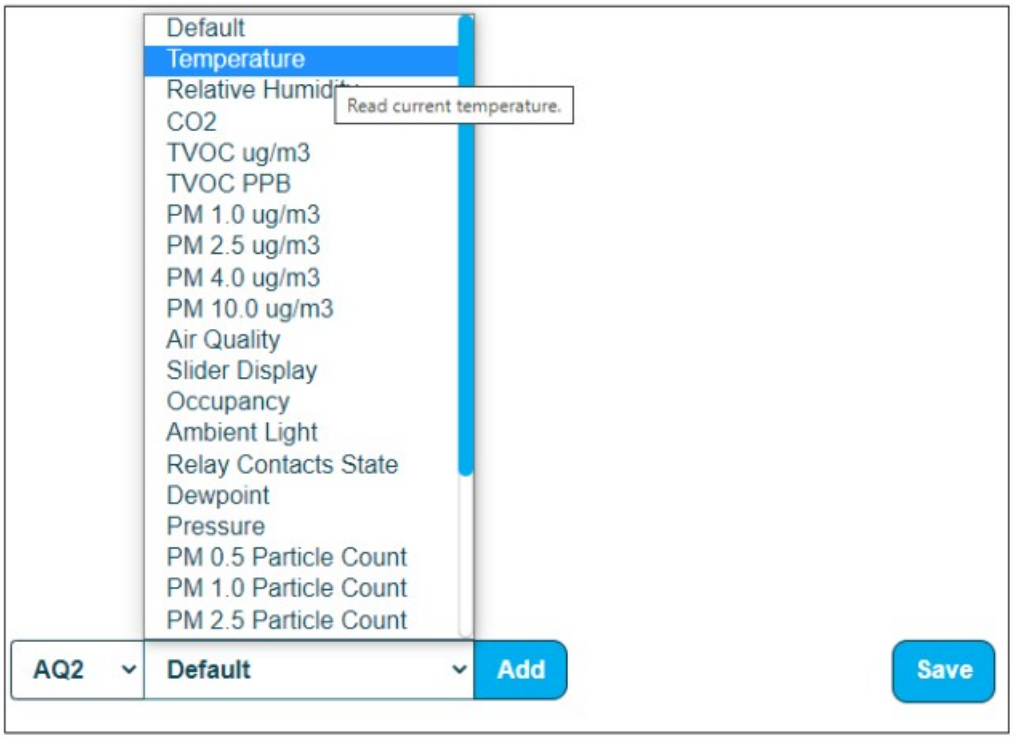


3. When you hit “save changes and connect,” you should see the IOT Connection Status icon at the top turn green.

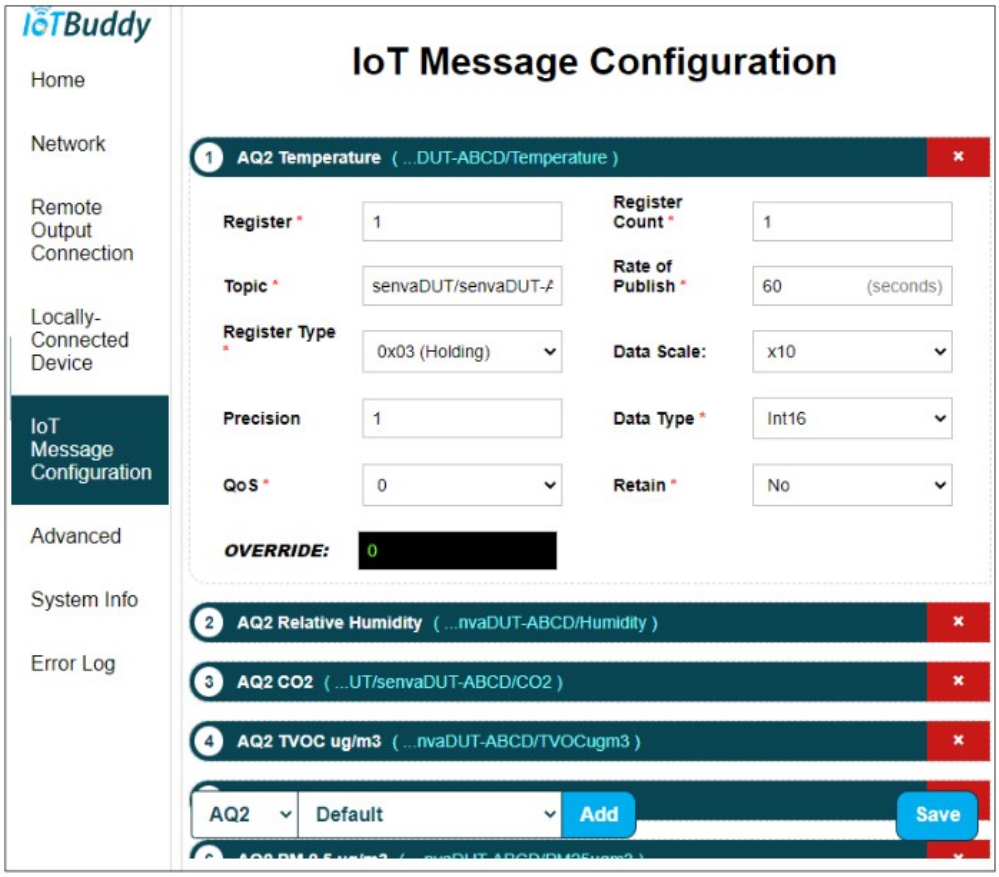
Datapoint Settings

Modbus Settings (Locally-Connected Device)

1. Navigate to the “Locally-Connected Device” tab and enter Modbus se6ngs to match the se6ngs on the device you wish to monitor.
2. Navigate to “IOT Message Configuracion” tab. You may choose one of the pre-configured Senva devices from the dropdown or choose “basic” to manually enter the points you wish to monitor.
   Select the pre-configured points you wish to monitor or add basic points manually.

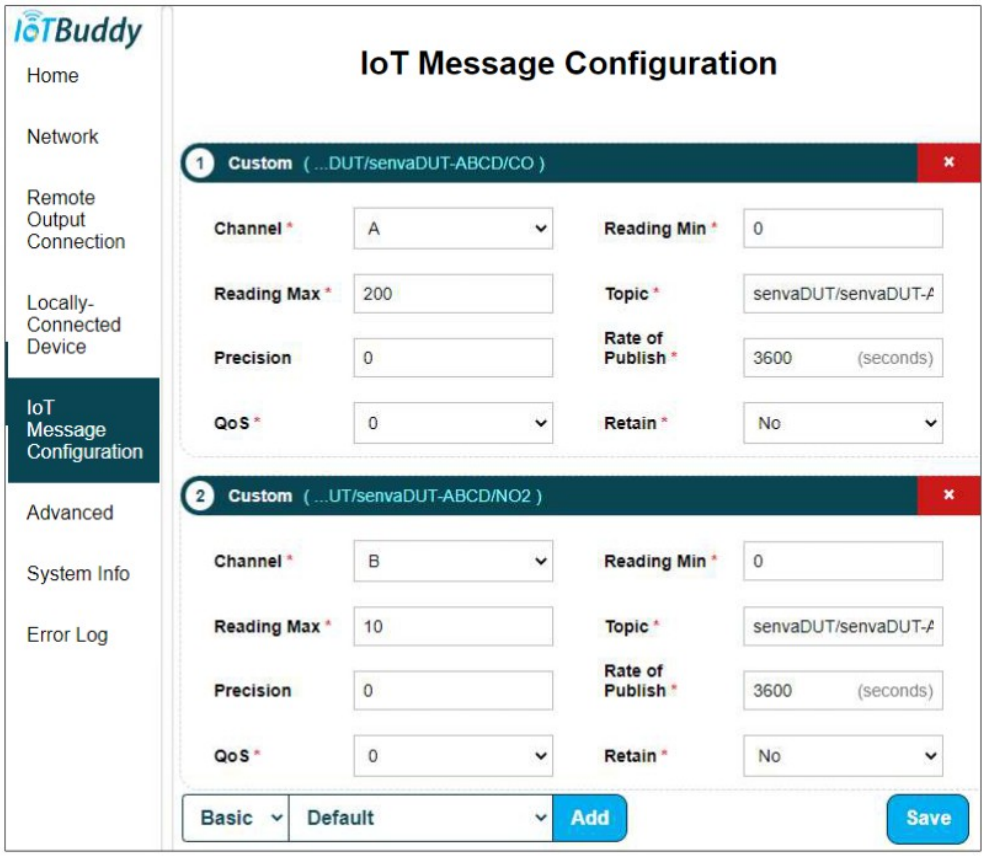


3. Adjust the se6ngs for each point you wish to monitor. The right sidebar provides a detailed description of each field as it is selected.



Analog Settings

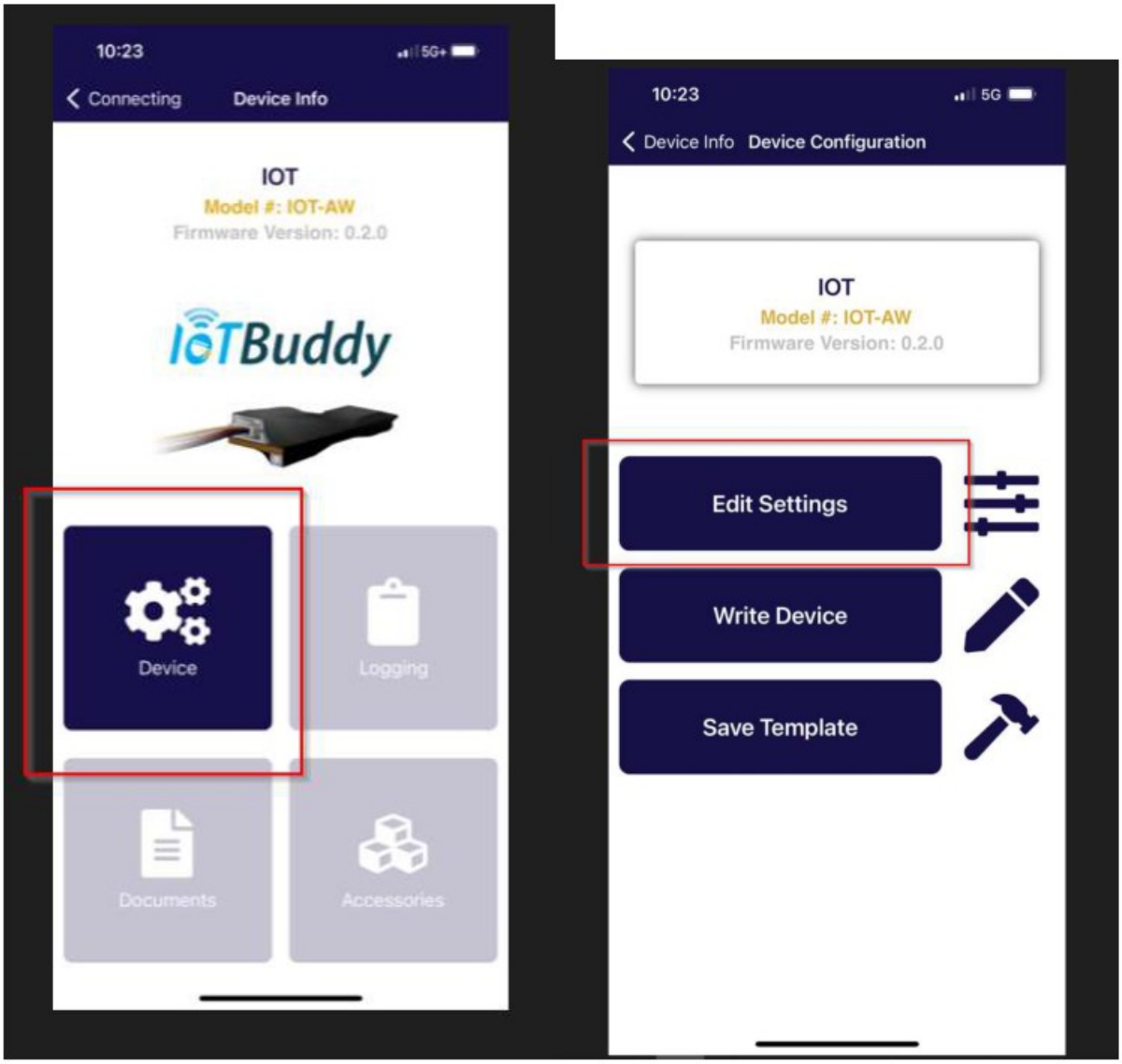
1. Navigate to the “Locally-Connected Device” tab and enter the voltage or current range of the analog signal to be monitored on the two channels. Channel A should correspond to your IoTBuddy’s blue wire and Channel B should be grey.
2. Navigate to the “IOT Message Configuration” tab. You may choose one of the pre-configured Senva devices from the dropdown or choose “basic” to manually enter the points you wish to monitor. Make sure to assign readings to either Channel A or Channel B.



App Provisioning Setup

1. Open the Senva Sync app available on the Google Play Store for Android or the Apple App Store for iOS.
2. Tap ‘Scan Device’ and place your phone’s NFC adapter over IoT Buddy until a successful connection occurs and a green checkmark is displayed.

3. Tap ‘Device’, then tap ‘Edit Se6ngs’.



4. Update available se6ngs as needed.

   a. For WIFI devices, available se6ngs are:

   i. Currently assigned IP addresses

   ii. Login credentials for the web interface

   iii. The Access Point password

   iv. WIFI Network se6ngs

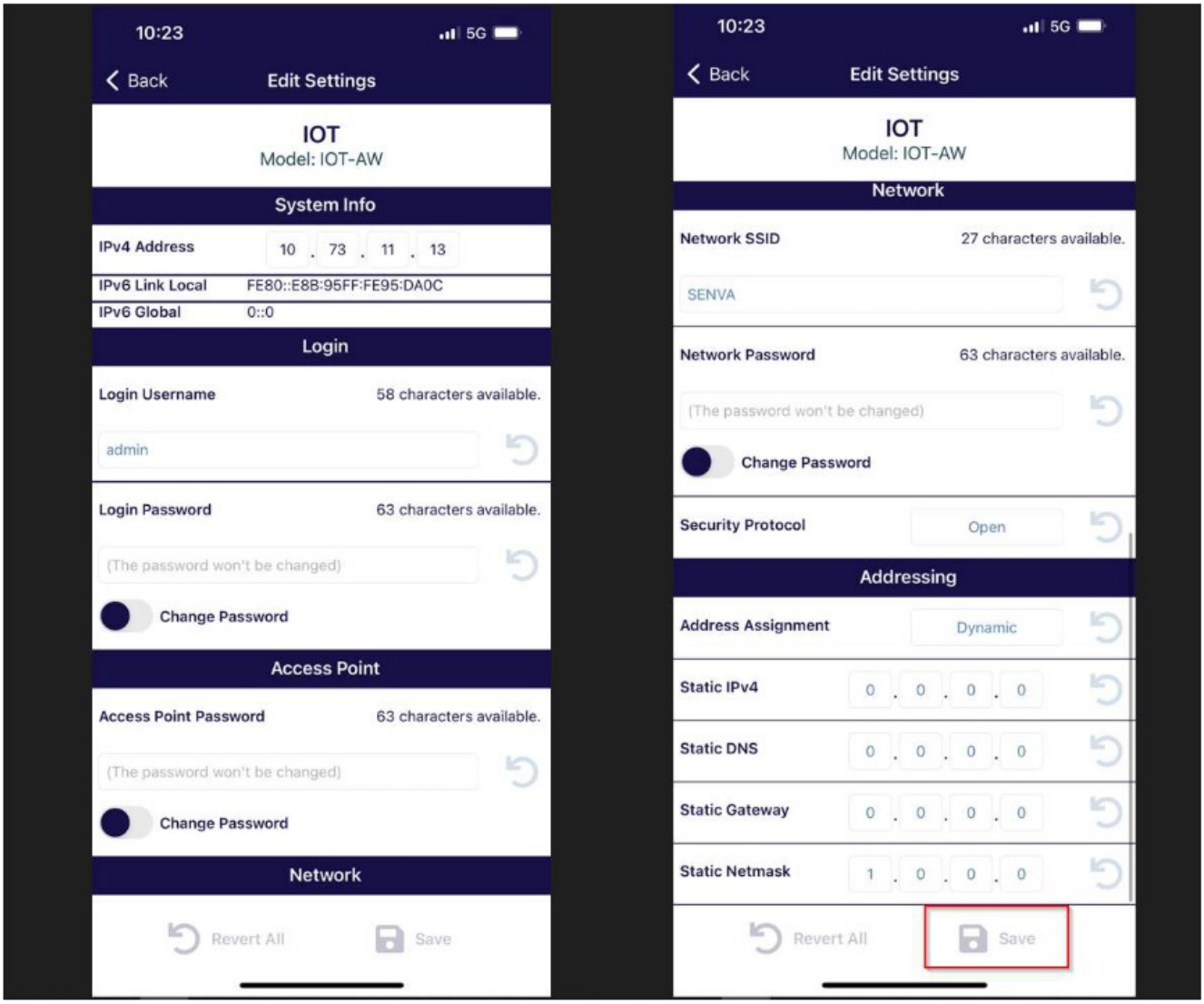
   v. Addressing method and static IP assignment

   b. For ethernet and POE devices, available se6ngs are:

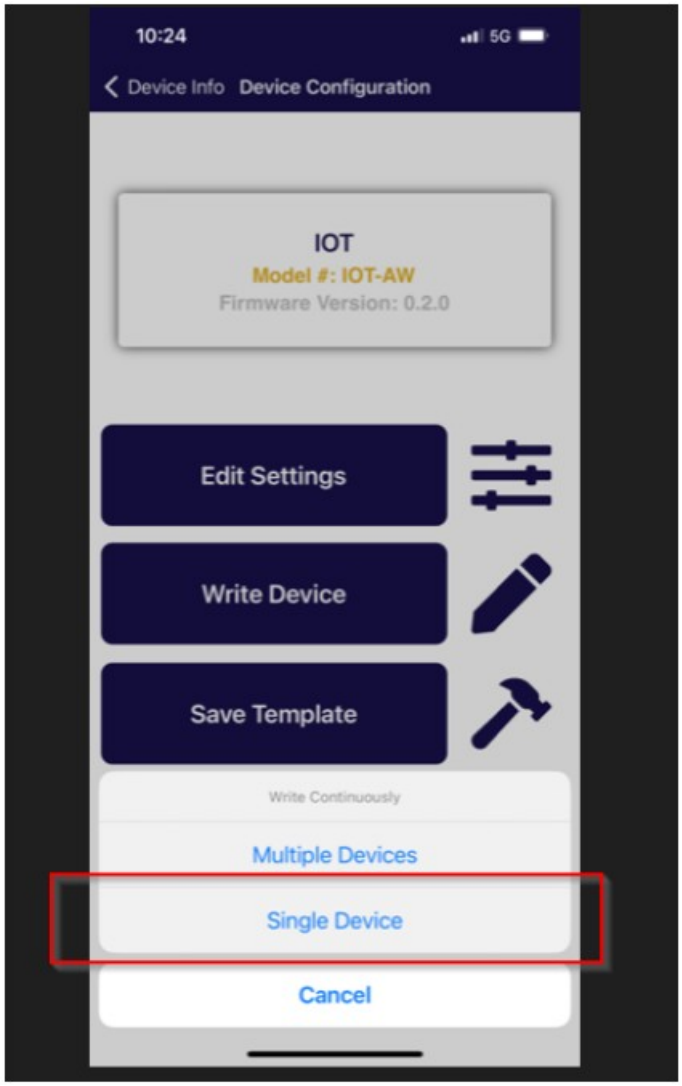
   i. Currently assigned IP addresses

   ii. Login credentials for the web interface

   iii. Addressing method and static IP assignment

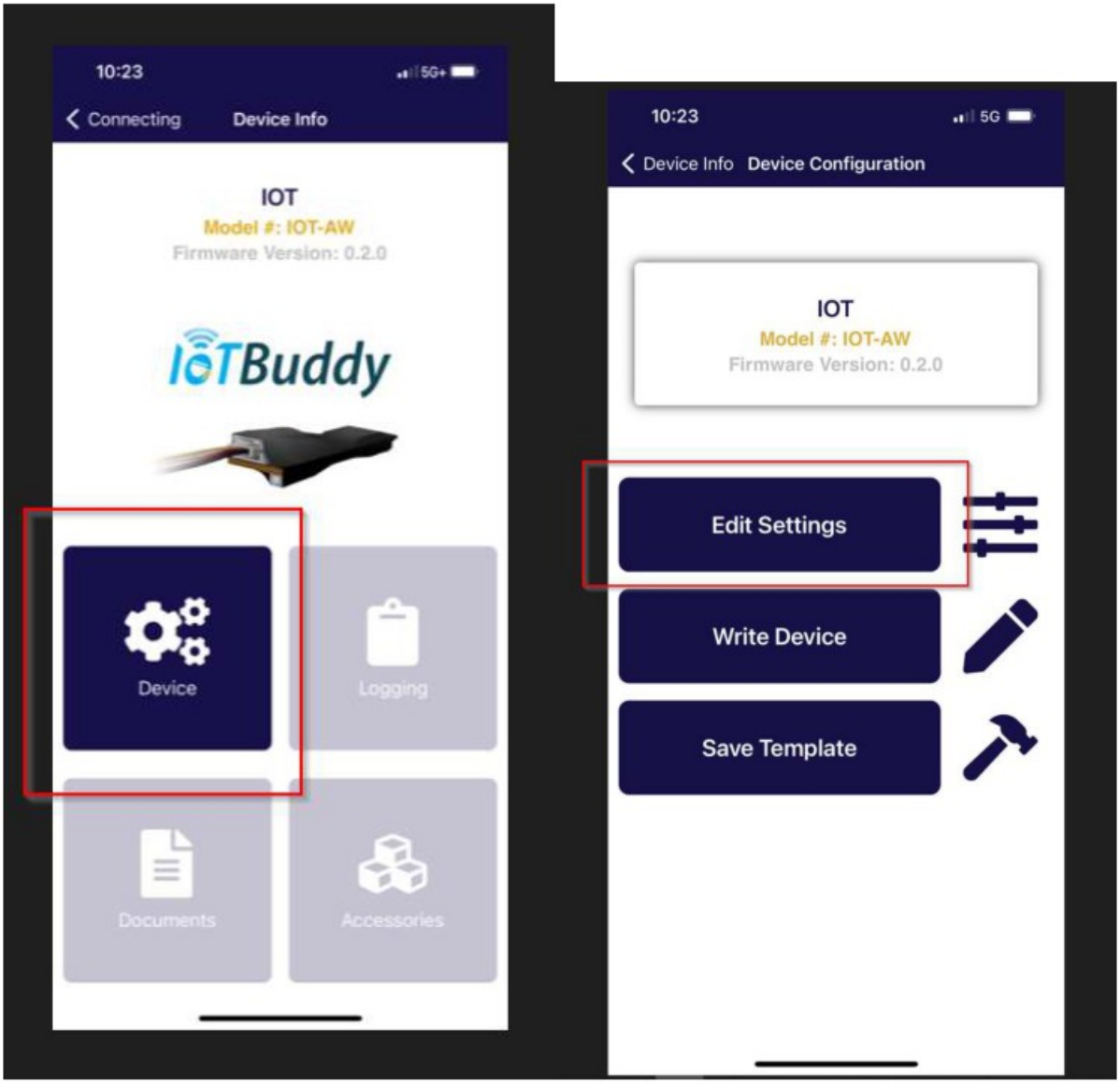


5. After changing the settings as needed, tap ‘Save’. When prompted to write a device, tap ‘yes’, then tap ‘single device’.

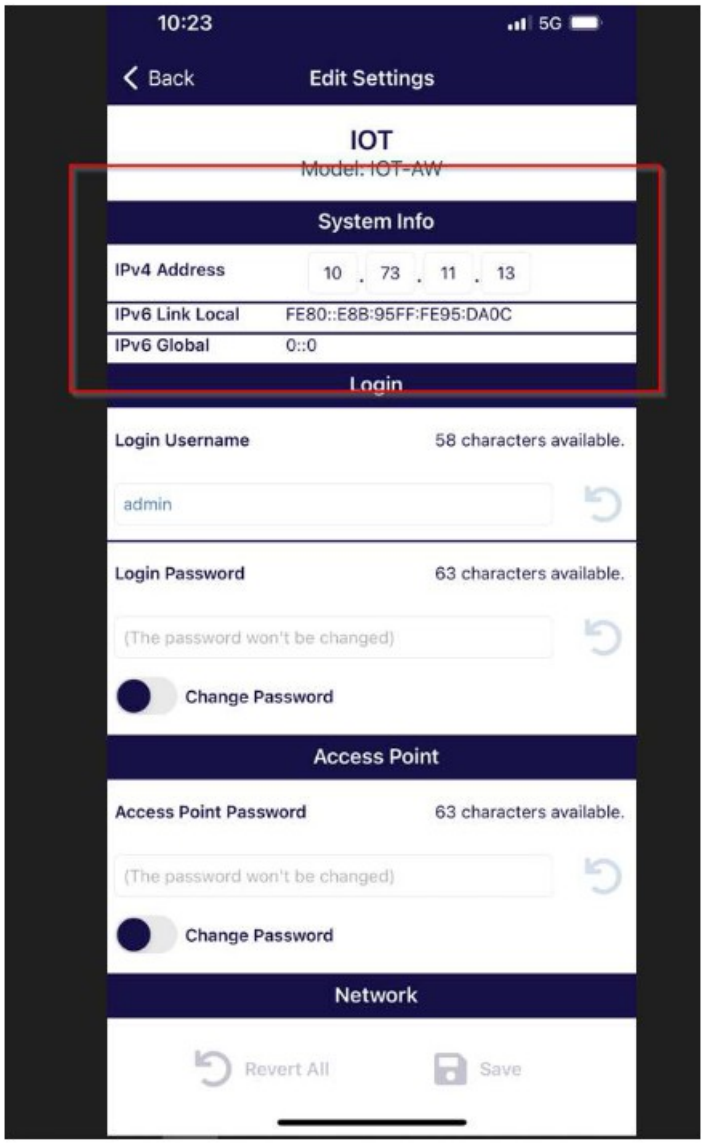


6. Place your phone’s NFC adapter over IoT Buddy to write out the new se6ngs until a successful connection occurs and a green checkmark is displayed.
   IP Address Retrieval
7. Wait at least 5 seconds for IoT Buddy to reboot after a write, then from the app’s home page, tap ‘Scan device’. Place your phone’s NFC adapter over IoT Buddy until a successful connection occurs and a green checkmark is displayed.

8. Tap ‘Device’, then tap ‘Edit Settings’.



9. The currently assigned IP addresses will be displayed at the top under ‘System Info’.



Documents / Resources

	IOTBuddy 154-xxxx-xx Web Configuration Senva Sensors [pdf] Instruction Manual 154-xxxx-xx, 154-xxxx-xx IOTBuddy Web Configuration, IOTBuddy Web Configuration, Web Configuration, Configuration