

ElnoDuo WiFi Sensor

To configure a ElnoDuo WiFi IOT Sensor to work with ELNO.IO you will need to do the manual process to add to your local WiFi following the instructions on this page.

Start: Add New WiFi Sensor to local Network

You can configure the WIFI sensor using any device that supports WIFI and an internet browser. In this example we will use a desktop computer.

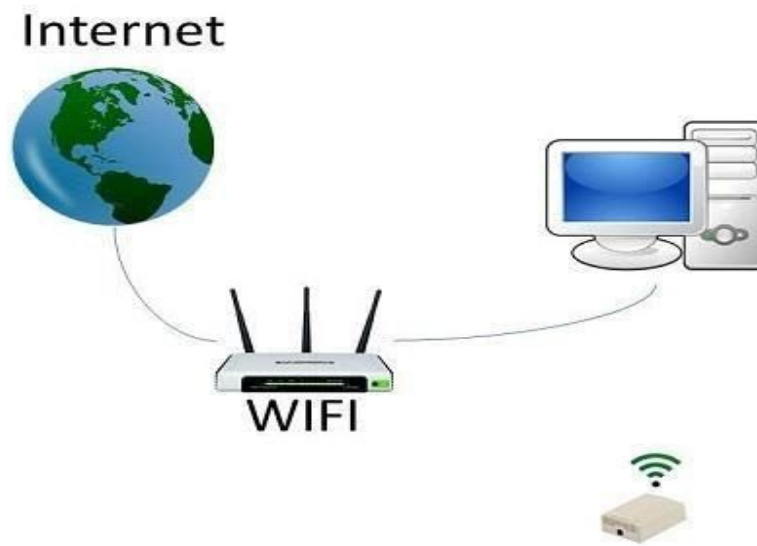


Figure 1

Step 1 : Connect to the WIFI Sensor

The first step is to connect the desktop PC to the WIFI sensor. Power up the WIFI sensor and use your computer (or device) to look for a WIFI connection that starts with PEP followed by the Serial Number on the bottom of your ElnuDuo. Connect to the sensor using the default password:

Password: ElnuDuo12345.

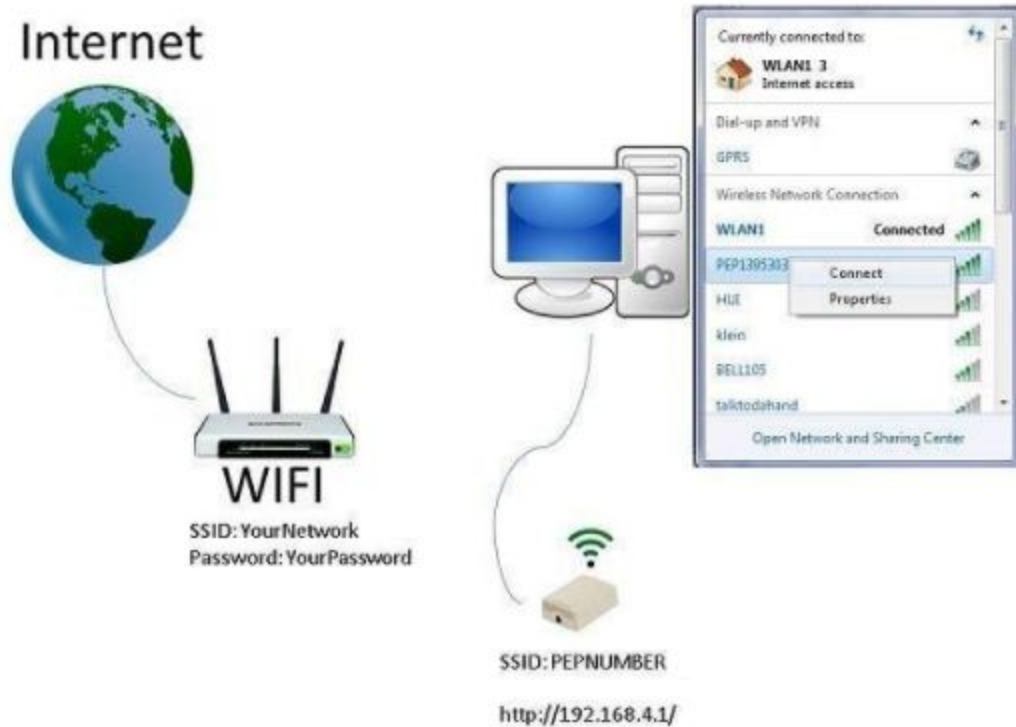


Figure 2

Step 2 : Configure SSID and Password

Open a browser and navigate to <http://192.168.4.1/>. You should receive a setup page with the details on the device.

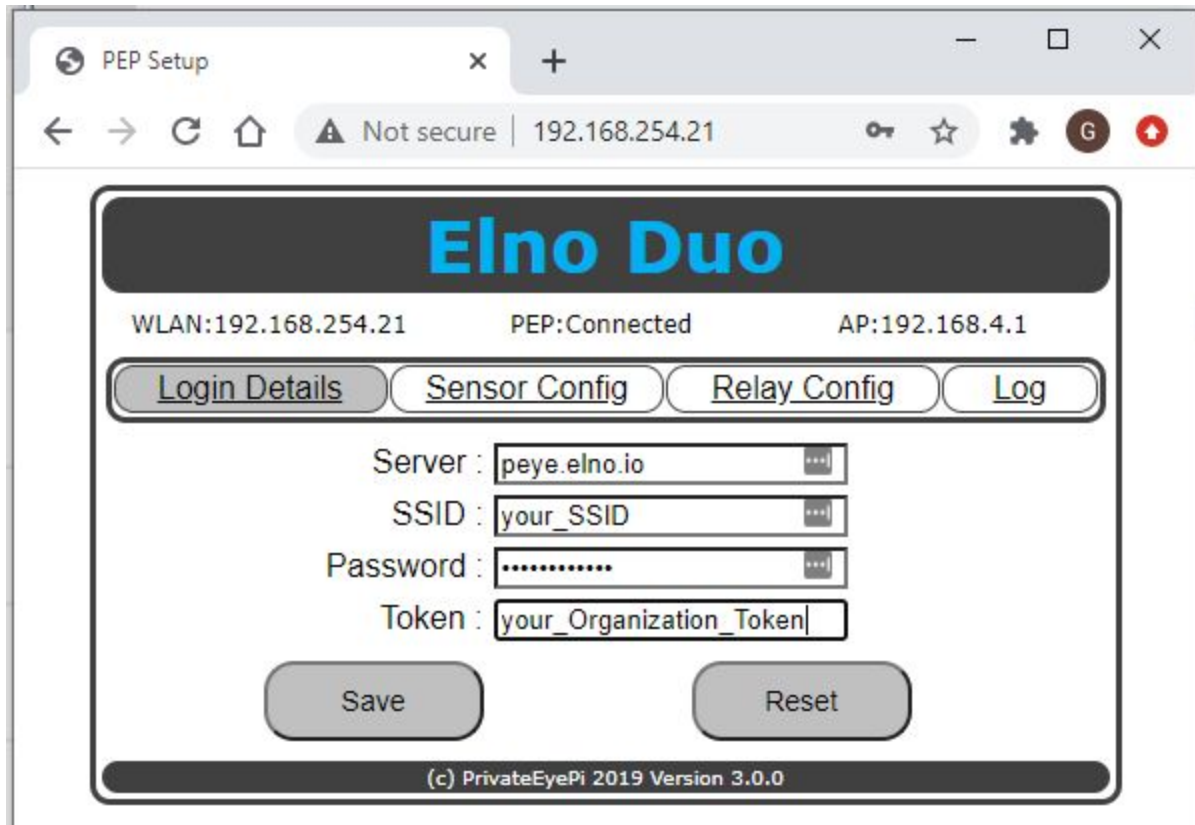


Figure 3

Enter the SSID (network name) and Password of your WIFI router and click on save.

Wait a few seconds for the WIFI temperature sensor to connect to the WIFI router. Click on the "Login Details" menu option to refresh the screen. Once connected you will see the IP address has been given to the WIFI sensor, as shown in the next image. Your WIFI sensor is now connected to the internet.

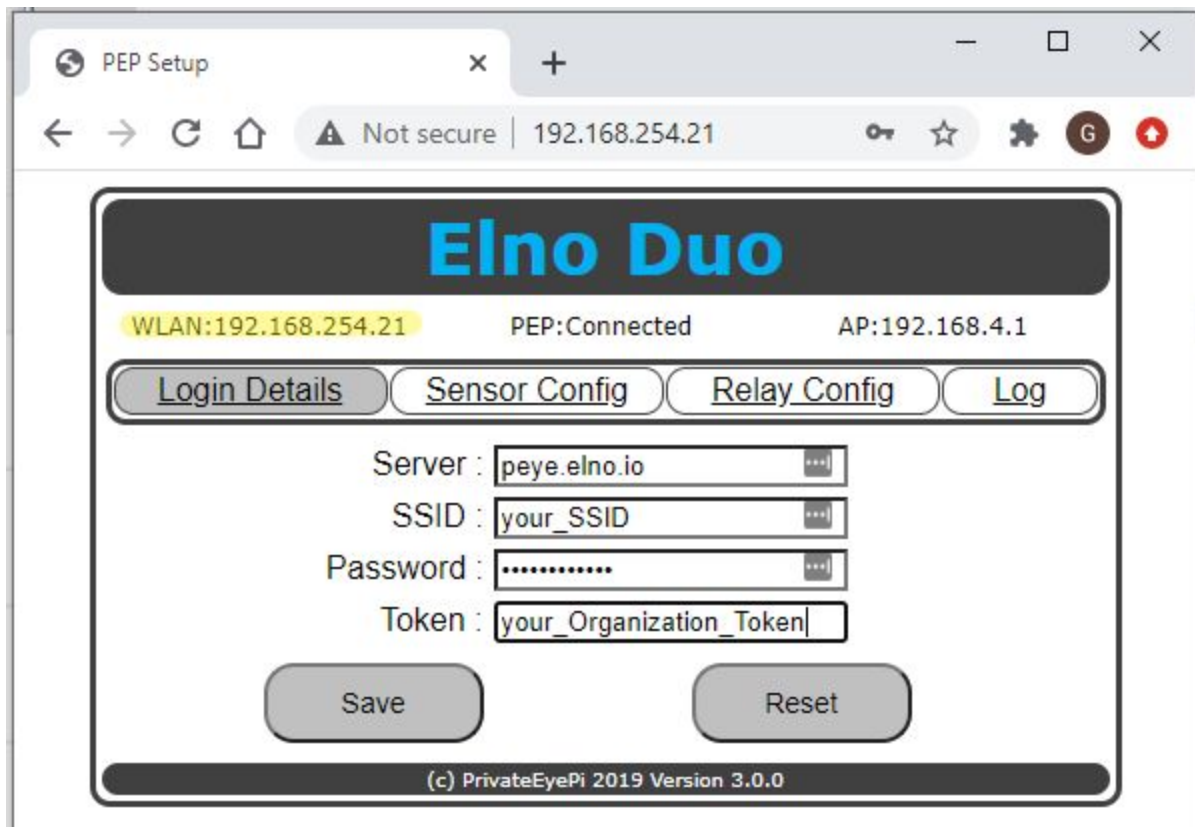
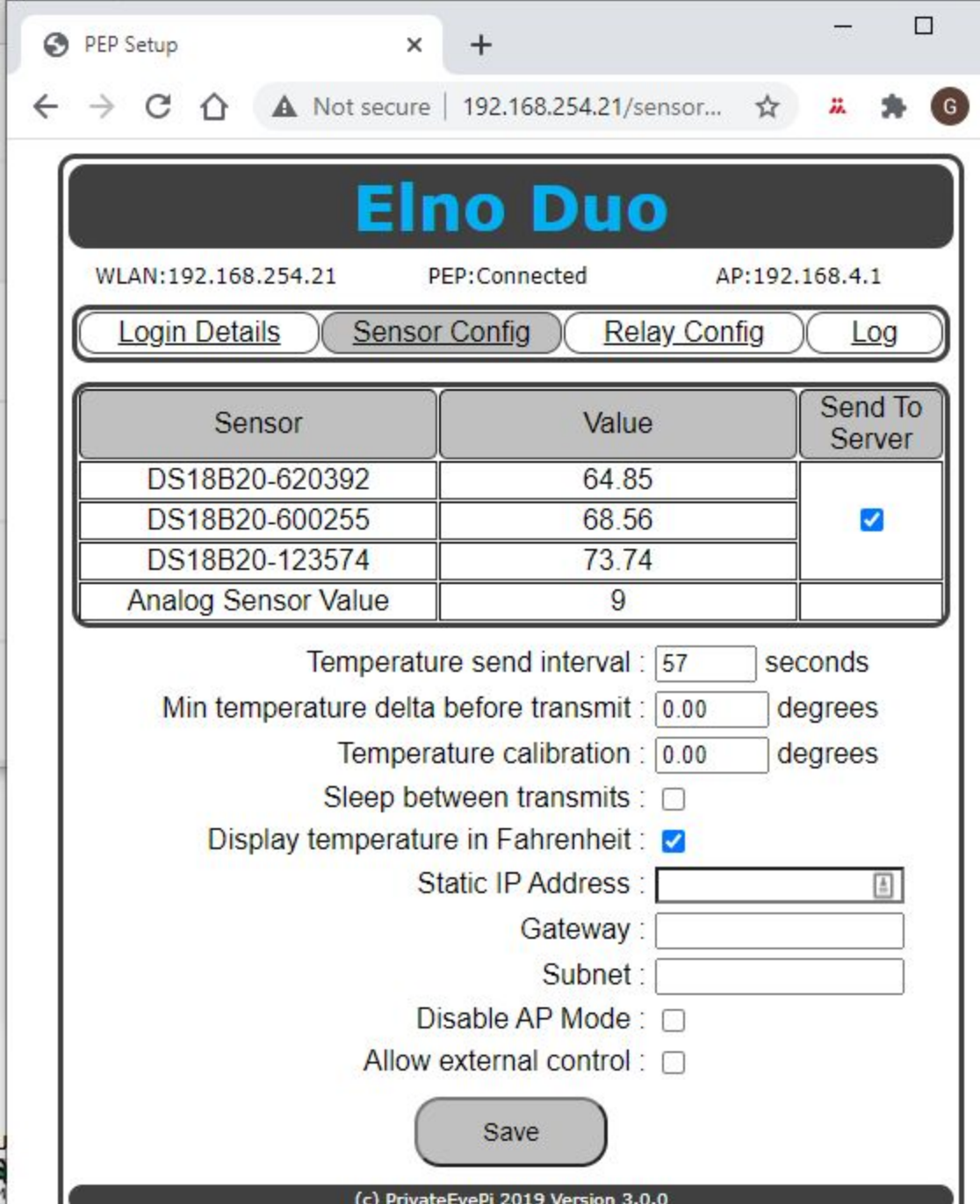


Figure 4

Note: The example shows 192.168.254.80, but yours will be different.

Step 3: Configuring your IoT ElnuDuo WiFi Sensor

The default configuration for the IoT WiFi sensor is local use. To have it send data to external systems you will need to go to the **Sensor Config** tab of your WiFi device as shown below:



The screenshot shows the Elno Duo web interface. At the top, it displays 'WLAN:192.168.254.21', 'PEP:Connected', and 'AP:192.168.4.1'. Below this are four tabs: 'Login Details', 'Sensor Config' (selected), 'Relay Config', and 'Log'. A table shows sensor data with columns for 'Sensor', 'Value', and 'Send To Server'. The 'Send To Server' column has a checked checkbox. Below the table are configuration options for temperature send interval, min temperature delta, temperature calibration, sleep between transmits, display temperature in Fahrenheit, static IP address, gateway, subnet, disable AP mode, and allow external control. A 'Save' button is at the bottom.

Sensor	Value	Send To Server
DS18B20-620392	64.85	<input checked="" type="checkbox"/>
DS18B20-600255	68.56	
DS18B20-123574	73.74	
Analog Sensor Value	9	

Temperature send interval : seconds
Min temperature delta before transmit : degrees
Temperature calibration : degrees
Sleep between transmits :
Display temperature in Fahrenheit :
Static IP Address :
Gateway :
Subnet :
Disable AP Mode :
Allow external control :

(c) PrivateEyePi 2019 Version 3.0.0

Figure 5

To be sent data, check the Send To Server check box, set a time interval to send data, for Elno the normal value is 60 seconds.

Note: Currently in Elnio the temperatures show Fahrenheit only. If you have your device set to Centigrade, it will convert Centigrade to Fahrenheit automatically, but for local display so show Fahrenheit you will need to check the **Display temperature in Fahrenheit** check box. The Disable AP mode is a user option, we normally disable once it is online.

Step 4: For new Customers

If you do not have an account at Elnio.io, create a new user account and password by going to www.elno.io and in the top right corner press **Register** and fill out the registration form.

After you submit your registration, you can login and see the Elnio features however, we will need to know who you are and what company or organization you want your account associated with. You can be a member of an existing organization or have one of your own created.

To get a new account configured, send an email to **support @ elno.io** with the subject "**New User**". Include in the message your new user name plus a company or organization name you want to use to assign your WiFi sensor(s) to. We will create the company/organization group on our server and assign you to that group. When this is complete you will receive a Welcome message from us.

After you receive the Welcome message, you will be able to login to Elnio.io and see your requested group.

Step 5: Add ElnoDuo to your Elno account

After you have gotten your Welcome Message, you will need to login to add your WiFi IoT Sensor to your account.

Login to your Elno.io account, select the **Organization** menu option in the menu bar.

The Token associated with your account will be next to your business name. Copy that Token and log back into the **WiFi Sensor Login** page, shown in **Figure 4**, using your IP Address. Copy your new Token into the **Token** field and press **Save**.

A unique **Token** is necessary for your device. The Token is how we make the initial connection of data from your WiFi sensor to your Elno account.

The ElnoDuo will connect to Elno.io and register its Serial Number. You will now have on the **Gateway** tab a Gateway Id that matches the Serial Number on the bottom of the ElnoDuo.

On the **Sensors** tab, you will now see a new sensor, or sensors if you have the Temperature and Humidity Sensor or multiple Temperature sensors.

Summary

Elno updates once a minute so it may be a minute before it authenticates and shows up under your account.

The Sensors on the ElnoDuo will now show on the Home Page.

To the Elno Server, your ElnoDuo is a Gateway and Sensor combination. It will appear under Gateway as the sender of the data and under Sensors a unique sensor number for each Sensors on that gateway.

If it does not show up, contact Support @ elno.io or the Help Forum <https://groups.google.com/a/seltron.com/g/elno>