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eGauge EG4xxx Proxy Server User Guide

Contents

EG4xxx Proxy Server

Product Information

The eGauge is a device that is commonly accessed through a proxy server using an address in the form **http://DEVNAME.egaug.es** or **http://DEVNAME.d.egauge.net**. It can also be accessed via its IP address or hostname over the local network. The device relies on a router or other networking hardware to establish a link between a computer and the eGauge. The eGauge attempts to obtain an IP address and associated information through a service called Dynamic Host Configuration Protocol (DHCP) by default. If there is no LAN or network environment, or you cannot or do not wish to run this service on your LAN, the device will default to using IP address 192.168.1.88, so the device can be accessed at: **http://192.168.1.88/**. The eGauge can be accessed through different operating systems such as Microsoft Windows 10, Microsoft Windows 8, Microsoft Windows 7, Mac OS X (tested on Mountain Lion 10.7), and Linux/Unix (advanced).

Product Usage Instructions

1. Open the Start menu and click the Settings icon (gear).
2. In the Find a Setting search bar at the top of the page, type control panel without quotes.
3. Once in the control panel, click Network and Sharing Center.
4. Select Change Adapter Settings.
5. Disable any network connections you are not using to connect to the eGauge by right-clicking them and choosing Disable. This should be done for all wireless adapters when connected via Ethernet to the eGauge or HomePlug adapter.
6. Right click the adapter you will be using to connect to the eGauge and choose Properties.
7. In the Properties window, click the item listed as Internet Protocol Version 4 (TCP/IPv4) and click the Properties button.
8. If Use the following IP address already contains values, write these down as they will be overwritten.

Connecting through Microsoft Windows 8

1. Open the sidebar and choose Start.
2. Right-click and choose All apps.
3. Click on Control Panel.
4. In category view, open Network and Internet.

5. Choose Network and Sharing Center.

6. On the left side, open Change Adapter Settings.

7. Disable any network connections you are not using to connect to the eGauge by right-clicking them and choosing Disable. This should be done for all wireless adapters when connected via Ethernet to the eGauge or HomePlug adapter.

8. Right-click the adapter you will be using to connect to the eGauge and choose Properties.

Connecting through Mac OS X or Linux/Unix (advanced)

For advanced/experienced users: Connect a computer to the same network as the eGauge, or directly to the HomePlug adapter or EG30xx/EG4xxx Ethernet port as stated above. On the computer, set an IP address of 192.168.1.11, with a netmask of 255.255.255.0. Connect to the eGauge via device hostname, default IP of 192.168.1.88, or current static IP (if set). Note that a different IP address may need to be used on the computer if the eGauge's static IP address is not in the 192.168.1.xxx range.

Overview

The eGauge is most commonly accessed through the proxy server, using an address in the form http://DEVNAME.egaug.es or http://DEVNAME.d.egauge.net. The eGauge may also be accessed via its IP address or hostname over the local network (commonly done to make configuration changes). However, both cases rely on a router or other networking hardware to establish a link between a computer and the eGauge. In cases where it is not practical to connect the eGauge to a router, it is possible to connect to the eGauge directly using an Ethernet cable and a laptop or desktop computer with an Ethernet port. Connecting directly is often used for troubleshooting purposes, applying a device configuration prior to installation, or when leaving a device at a remote location where internet access isn't available. Tablets used in conjunction with USB to Ethernet adapters are not officially supported, but may work.

Introduction to connecting directly

By default, the eGauge will attempt to obtain an IP address and associated information through a service called Dynamic Host Configuration Protocol (DHCP). If you cannot or do not wish to run this service on your LAN, or there is no LAN or network environment, the device will default to using IP address 192.168.1.88, so the device can be accessed at: **http://192.168.1.88/**. The eGauge can be directly connected to a laptop or computer via an Ethernet to the built-in Ethernt port (EG4xxx and EG30xx), or to the HomePlug adapter (EG301x or older model eGauge2). This is often useful in environments with no local network, or where access to the network is restricted. In these scenarios, the eGauge can be configured and commissioned locally and directly; at a later time the eGauge can be retrieved and the data can be viewed and exported. On EG4xxx meters, data can also be exported to a USB thumb drive. Please refer to the proper walkthrough for setting up your device to communicate with the eGauge, based on the operating system of the computer used to connect. These instructions assume that the eGauge is configured to use DHCP (not a static IP address).

- Microsoft Windows 10
- Microsoft Windows 8
- Microsoft Windows 7
- Mac OS X (tested on Mountain Lion 10.7)
- Linux/Unix (advanced)
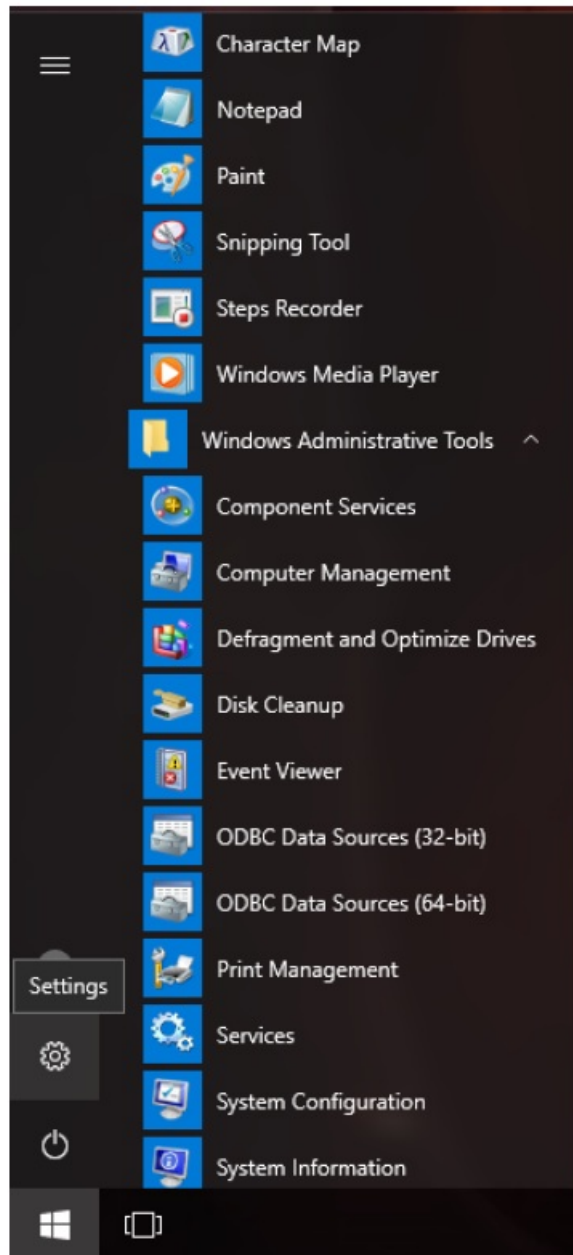
For advanced/experienced users:
Connect a computer to the same network as the eGauge, or directly to the HomePlug adapter or EG30xx/EG4xxx Ethernet port as stated above.
On the computer, set an IP address of 192.168.1.11, with a netmask of 255.255.255.0. Connect to the eGauge via
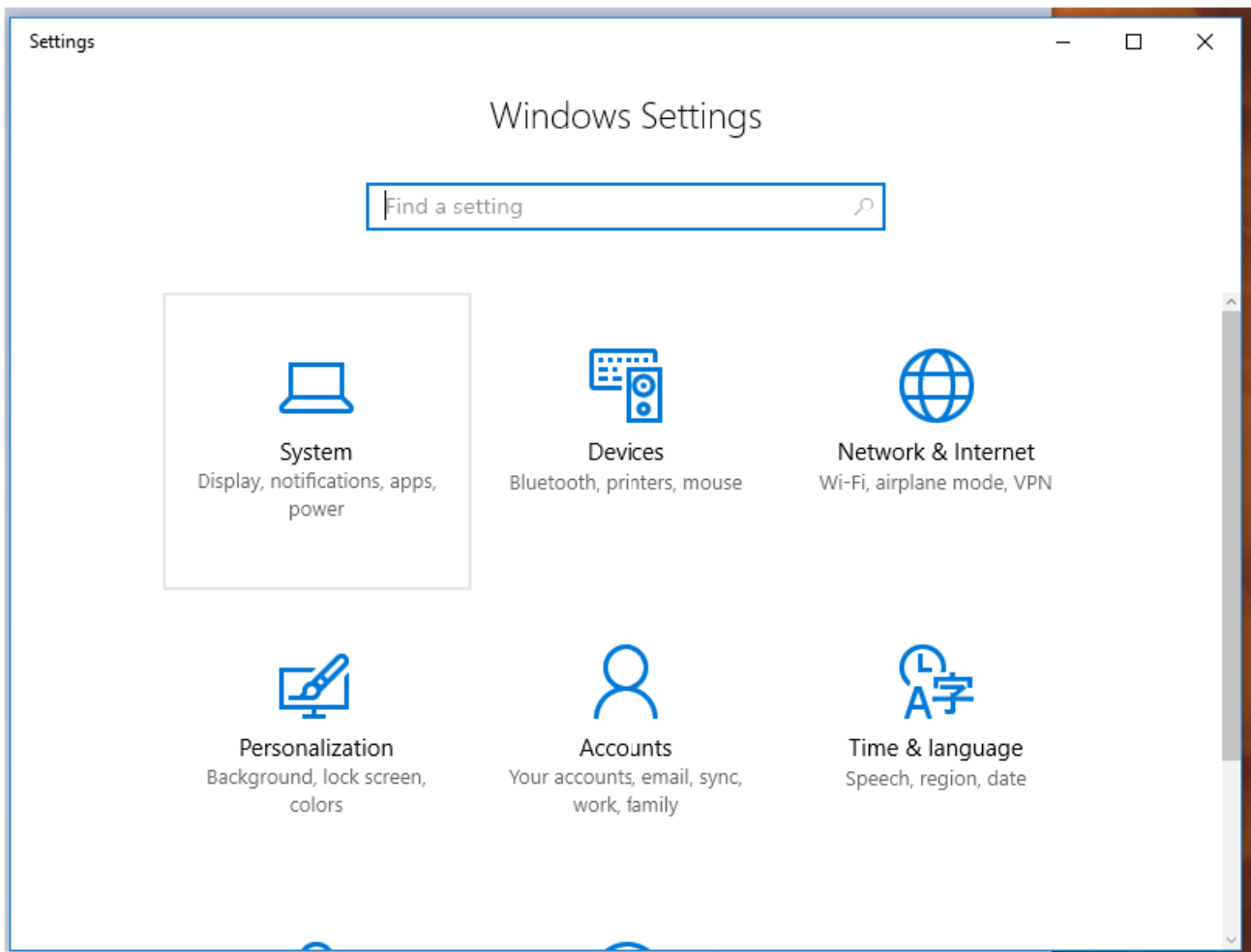
device hostname, default IP of 192.168.1.88, or current static IP (if set). Note that a different IP address may need to be used on the computer if the eGauge's static IP address is not in the 192.168.1.xxx range.
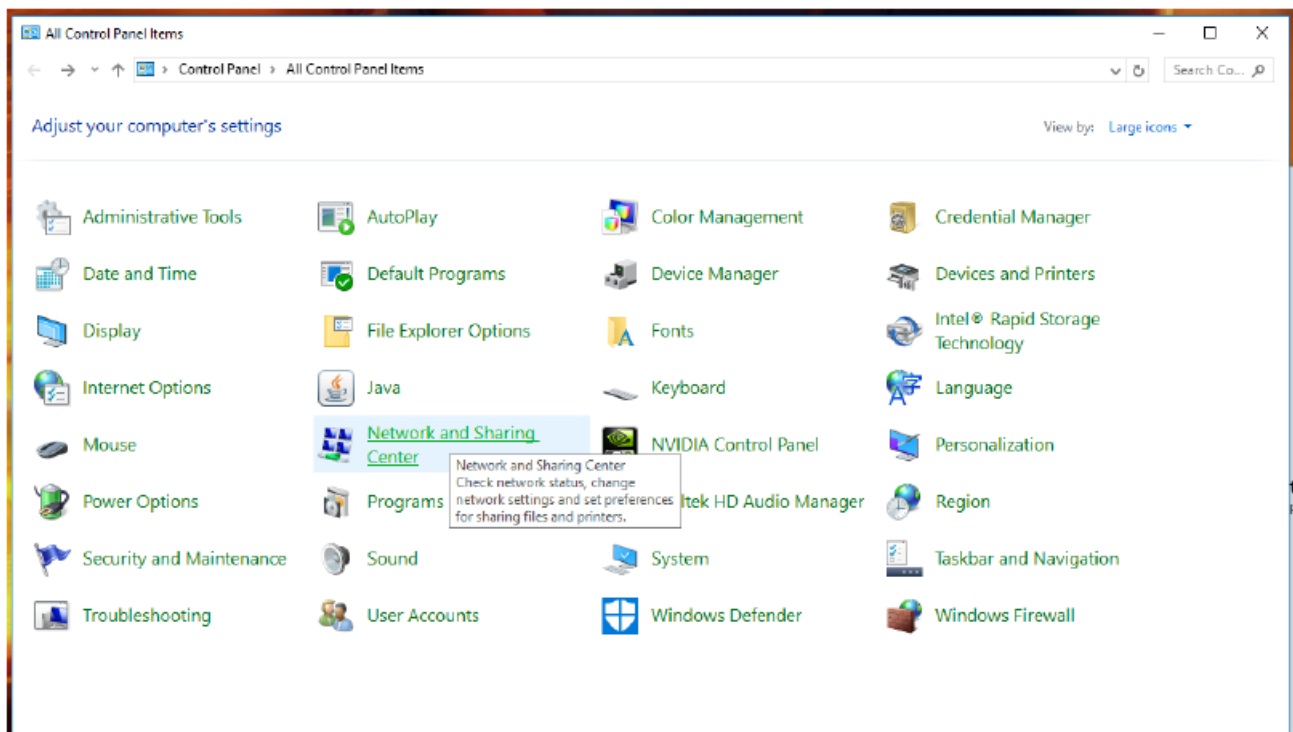
Microsoft Windows 10

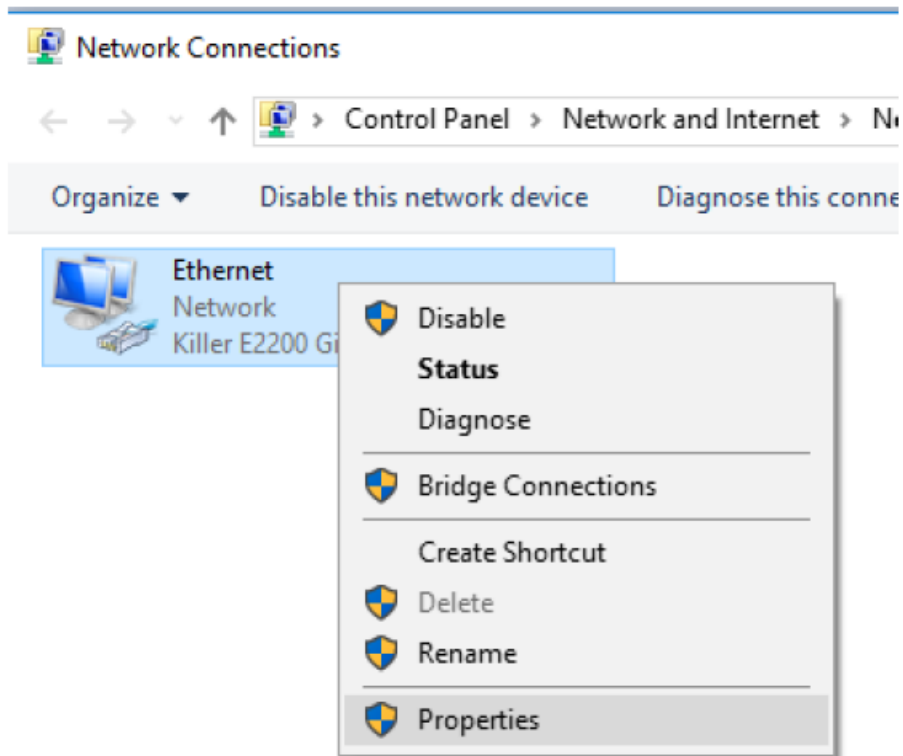1. Open the Start menu and click the Settings icon (gear).

2. In the "Find a Setting" search bar at the top of the page, type "control panel" without quotes.
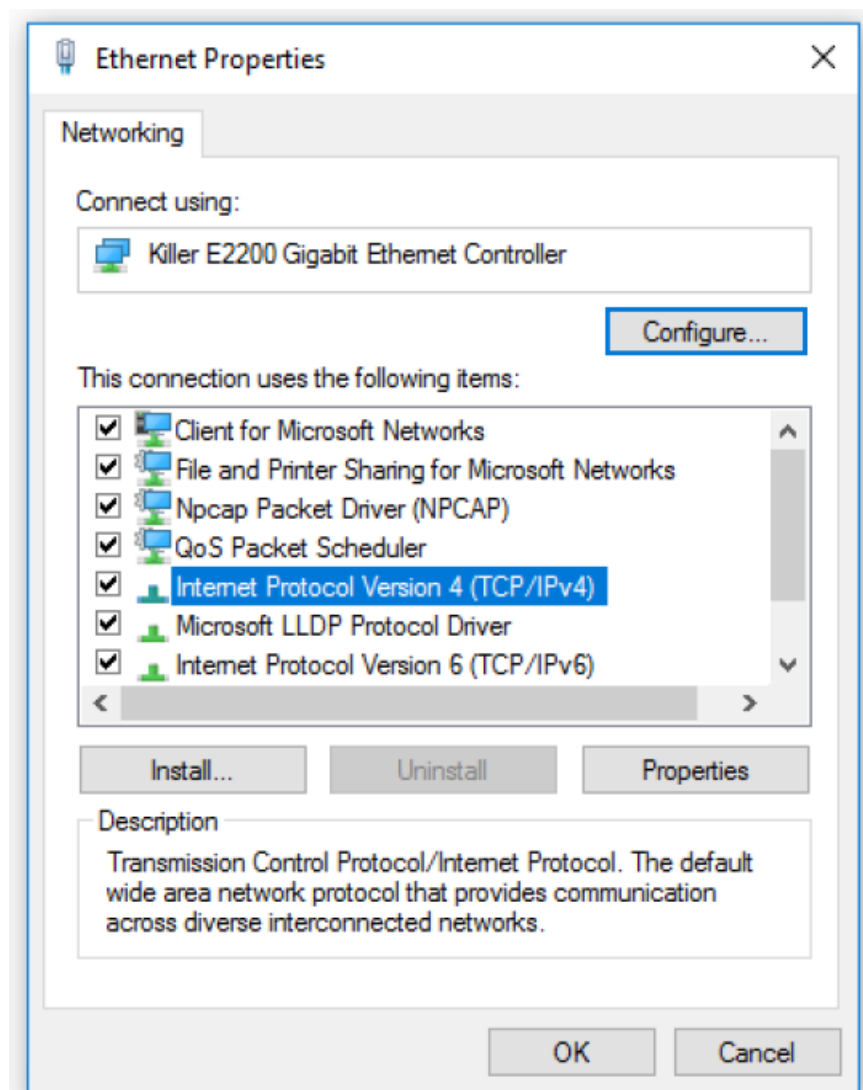
3. Once in the control panel, click "Network and Sharing Center".
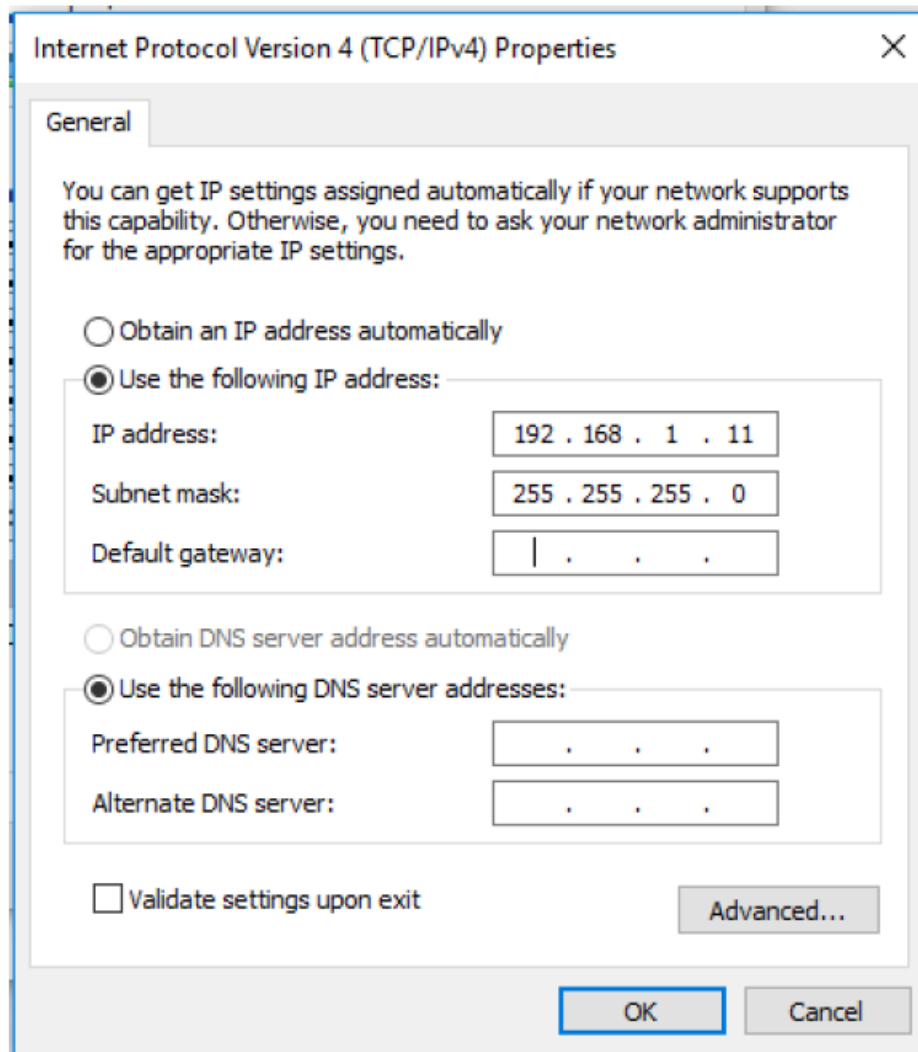

4. Select "Change Adapter Settings".

5. Disable any network connections you are not using to connect to the eGauge by right-clicking them and choosing Disable. This should be done for all wireless adapters when connected via Ethernet to the eGauge or HomePlug adapter.

6. Right click the adapter you will be using to connect to the eGauge and choose Properties.

7. In the Properties window, click the item listed as Internet Protocol Version 4 (TCP/IPv4) and click the Properties button.
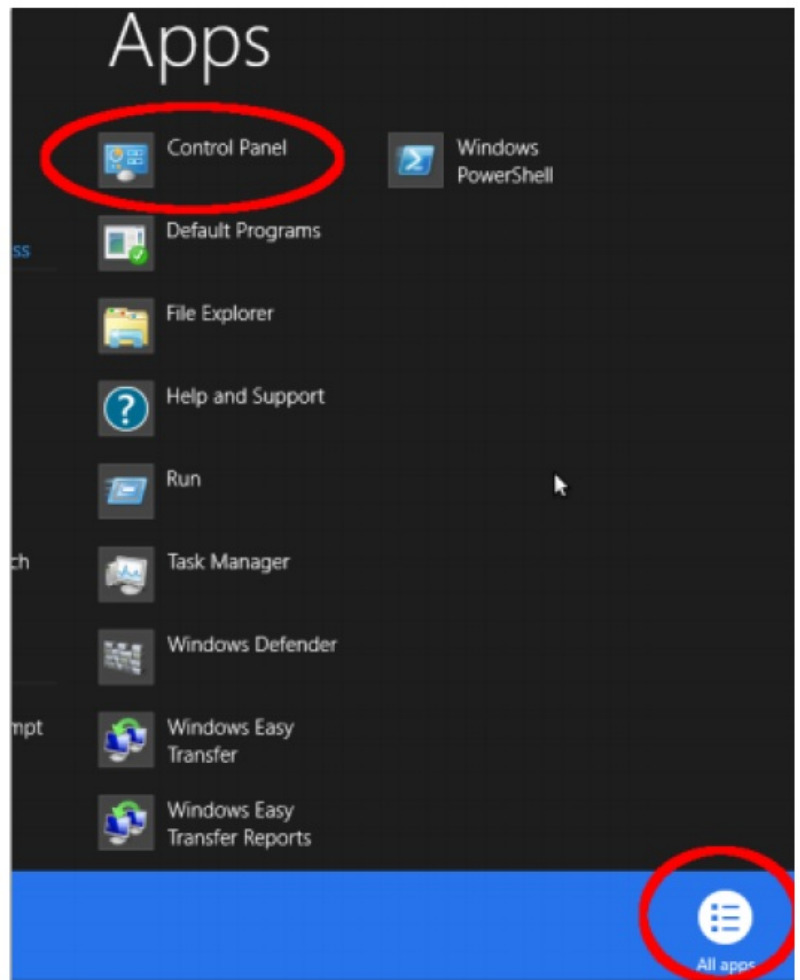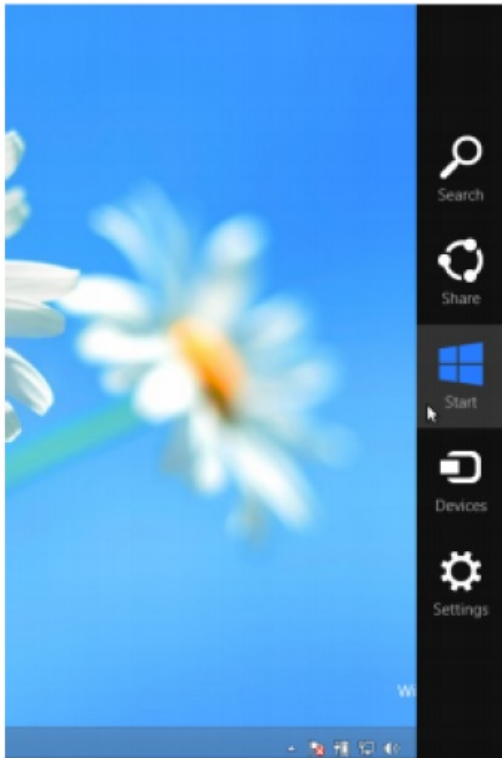

8. If Use the following IP address already contains values, write these down as they will be overwritten.
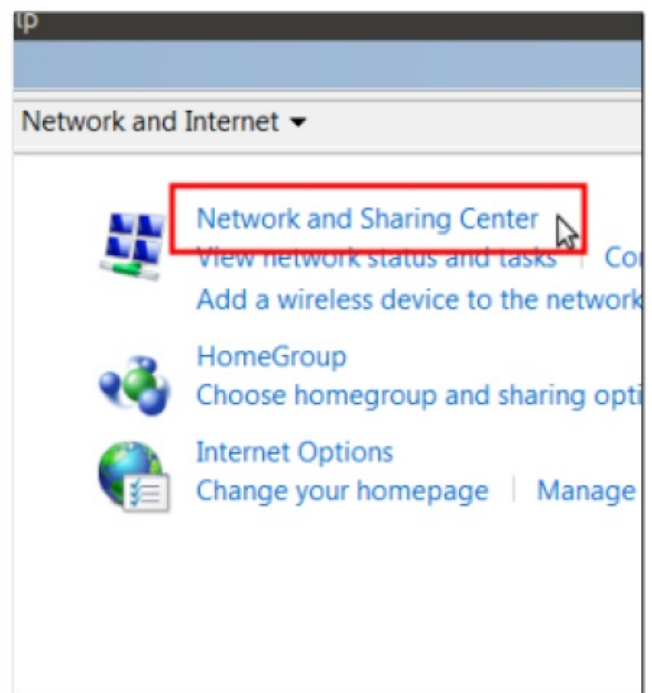
Internet Protocol Version 4 (TCP/IPv4) Properties ✕

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
◉ Use the following IP address:

IP address: 192 . 168 . 1 . 11
Subnet mask: 255 . 255 . 255 . 0
Default gateway: | .   .   .

○ Obtain DNS server address automatically
◉ Use the following DNS server addresses:

Preferred DNS server: .   .   .
Alternate DNS server: .   .   .

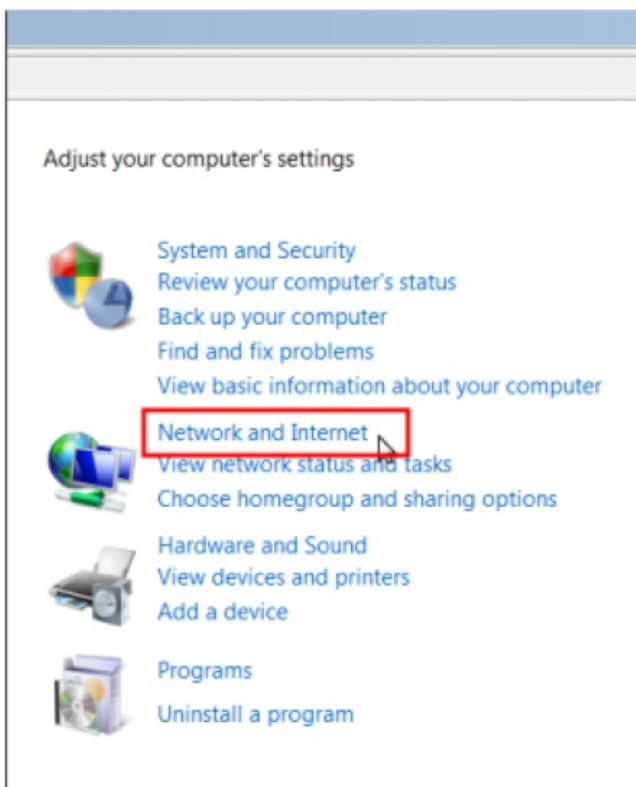☐ Validate settings upon exit   Advanced...

OK   Cancel

9. Click the radio button that says Use the following IP address and enter the following values:
   - IP address: 192.168.1.11
   - Subnet mask: 255.255.255.0
10. Click OK to save the changes and then click Close to close the properties window. To verify settings, right-click again on the adapter that was modified and choose Status and then Details. Look to see that IPv4 Address matches 192.168.1.11.
11. Access the eGauge at **http://192.168.1.88**. When done accessing the eGauge, revert any adapter's properties that you have changed during this process.
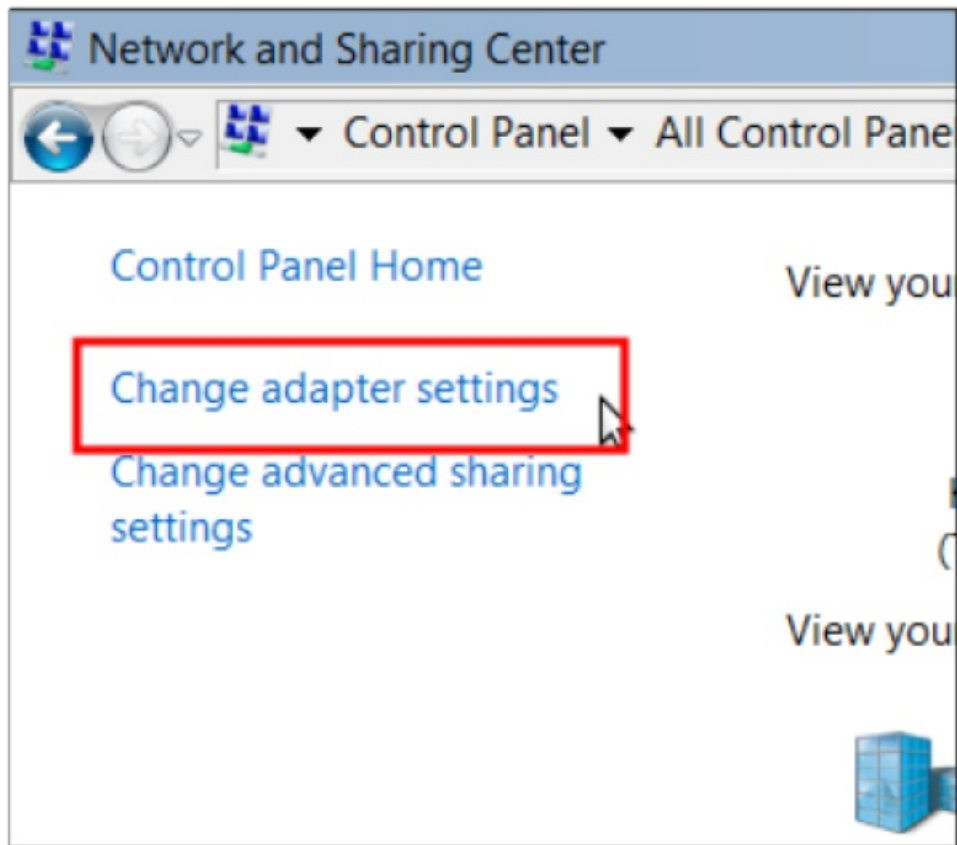
Microsoft Windows 8

1. Open the sidebar, and choose Start.
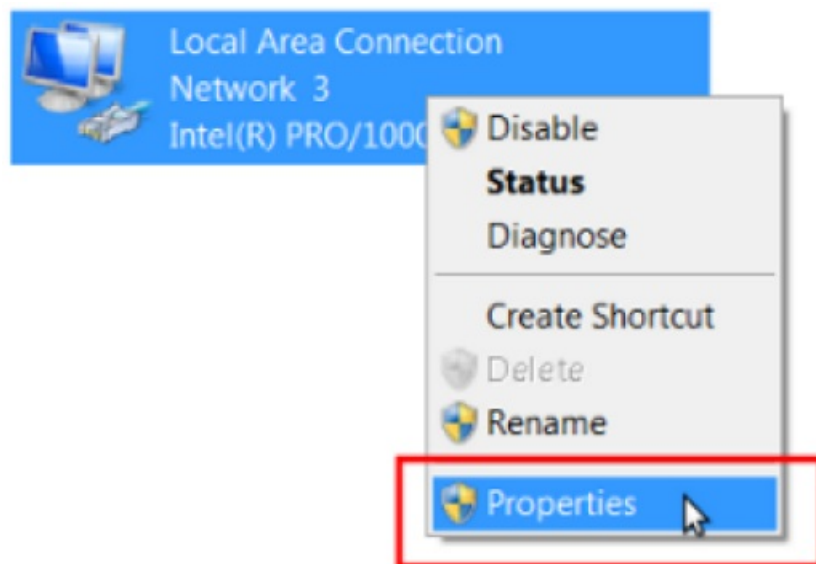2. Right-click and choose All apps.
3. Click on Control Panel.

4. In category view, open Network and Internet.

5. Choose Network and Sharing Center.

6. On the left side, open Change Adapter Settings.

7. Disable any network connections you are not using to connect to the eGauge by right-clicking them and choosing Disable. This should be done for all wireless adapters when connected via Ethernet to the eGauge or HomePlug adapter.

8. Right-click the adapter you will be using to connect to the eGauge and choose Properties.

9. In the Properties window, click the item listed as Internet Protocol Version 4 (TCP/IPv4) and click the Properties button.
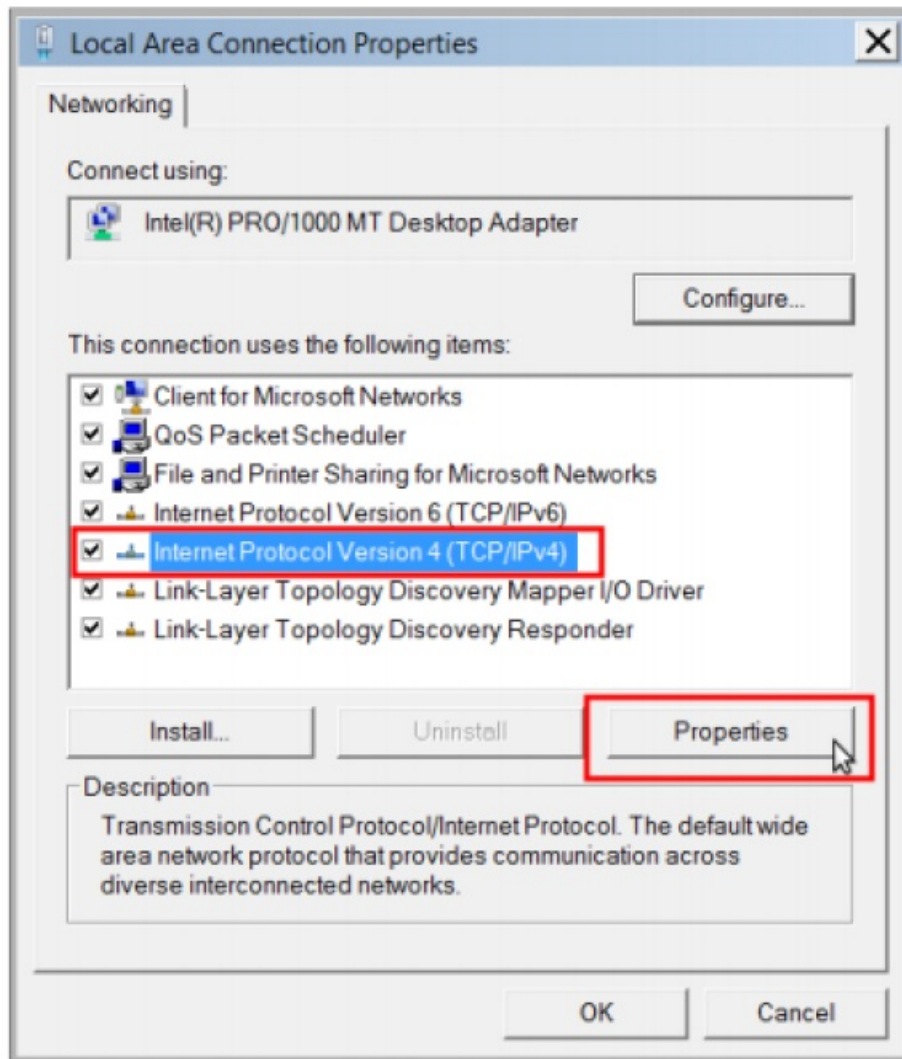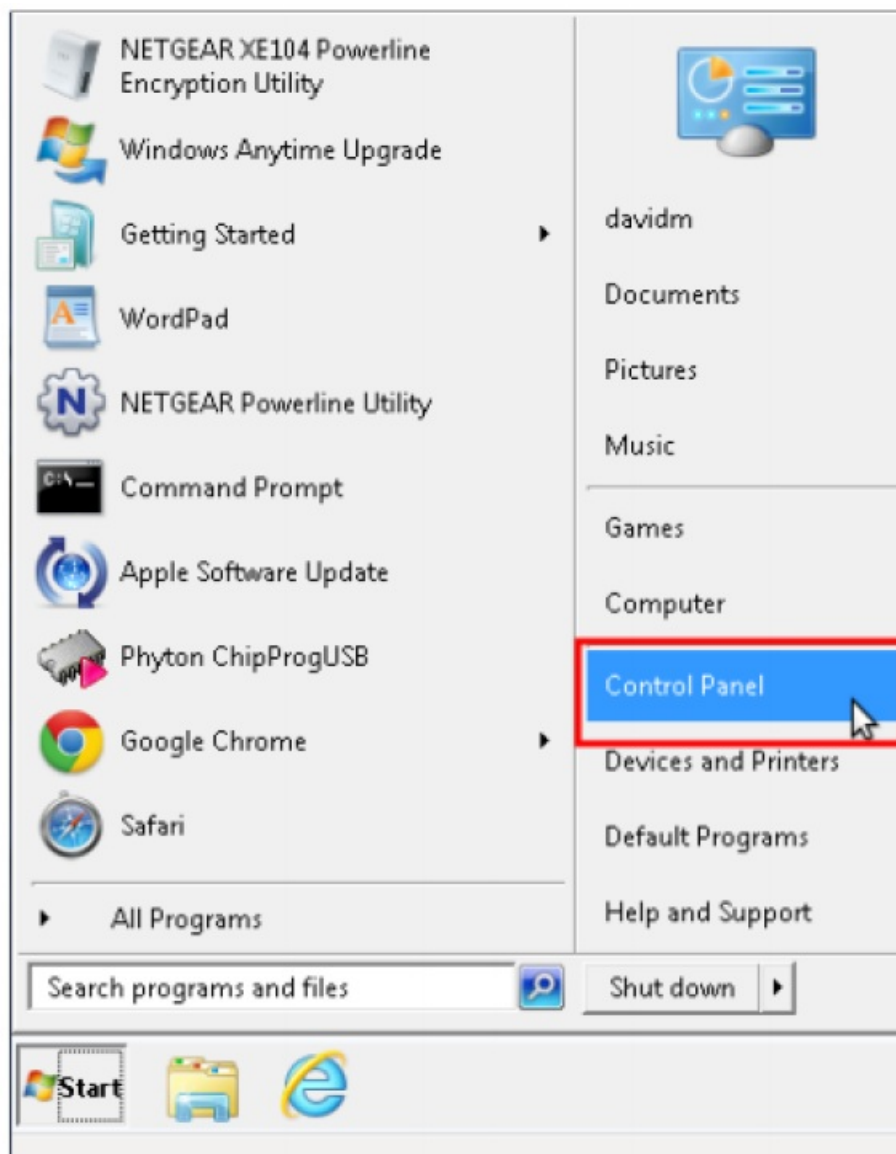
10. If Use the following IP address already contains values, write these down as they will be overwritten.
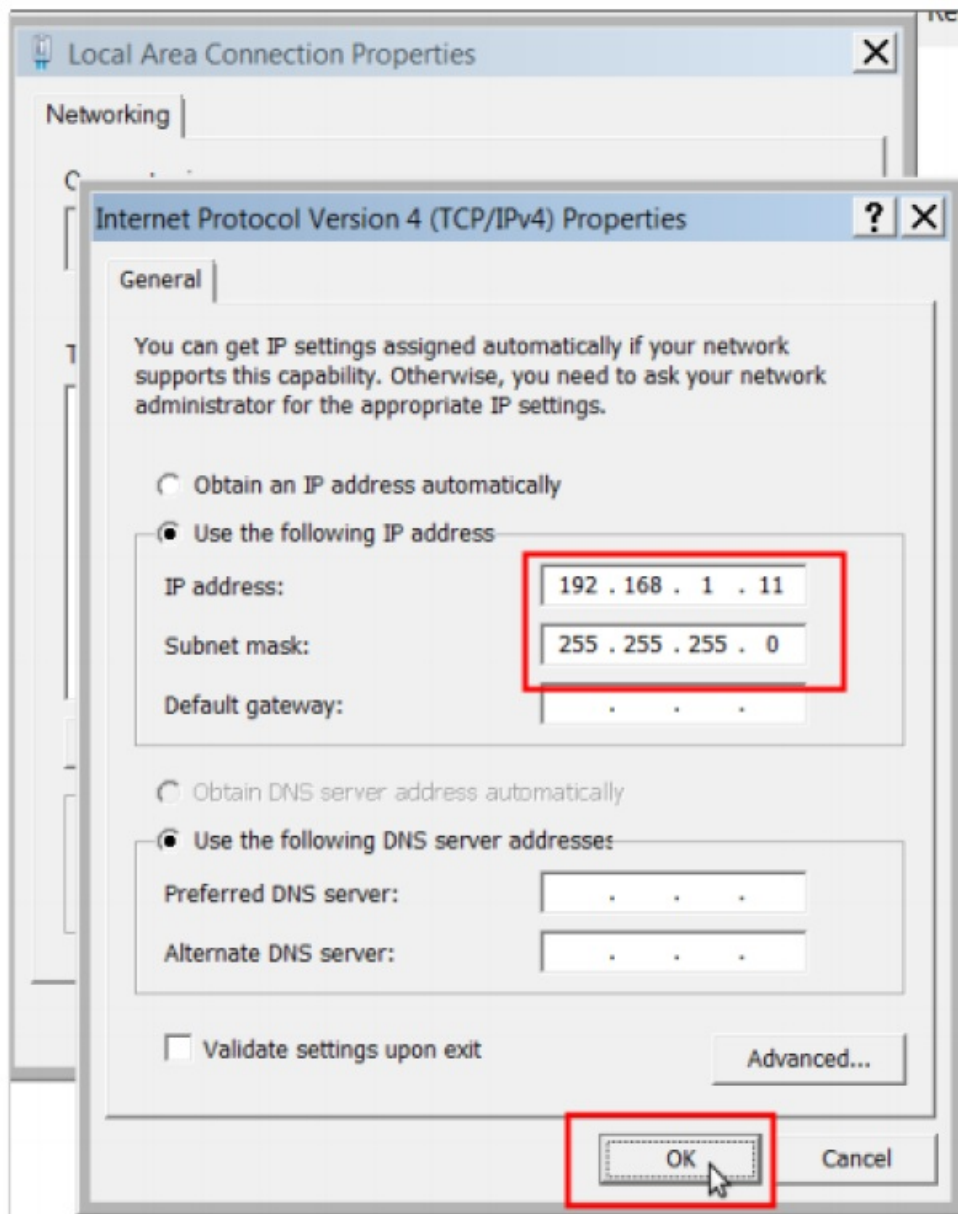
11. Click the radio button that says Use the following IP address and enter the following values:
    - IP address: 192.168.1.11
    - Subnet mask: 255.255.255.0
12. Click OK to save the changes and then click Close to close the properties window. To verify settings, right-click again on the adapter that was modified and choose Status and then Details. Look to see that IPv4 Address matches 192.168.1.11.
13. Access the eGauge at **http://192.168.1.88**. When done accessing the eGauge, revert any adapter's properties that you have changed during this process.
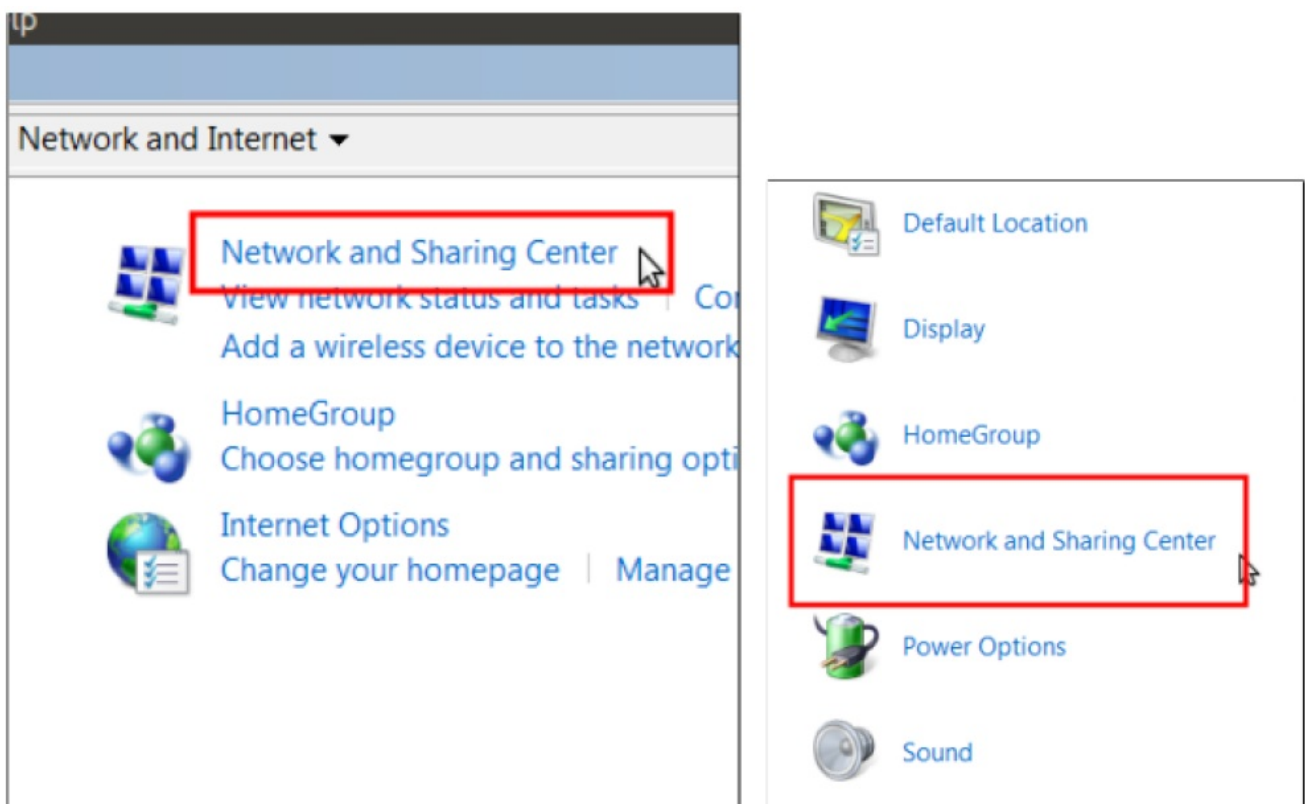
Microsoft Windows 7

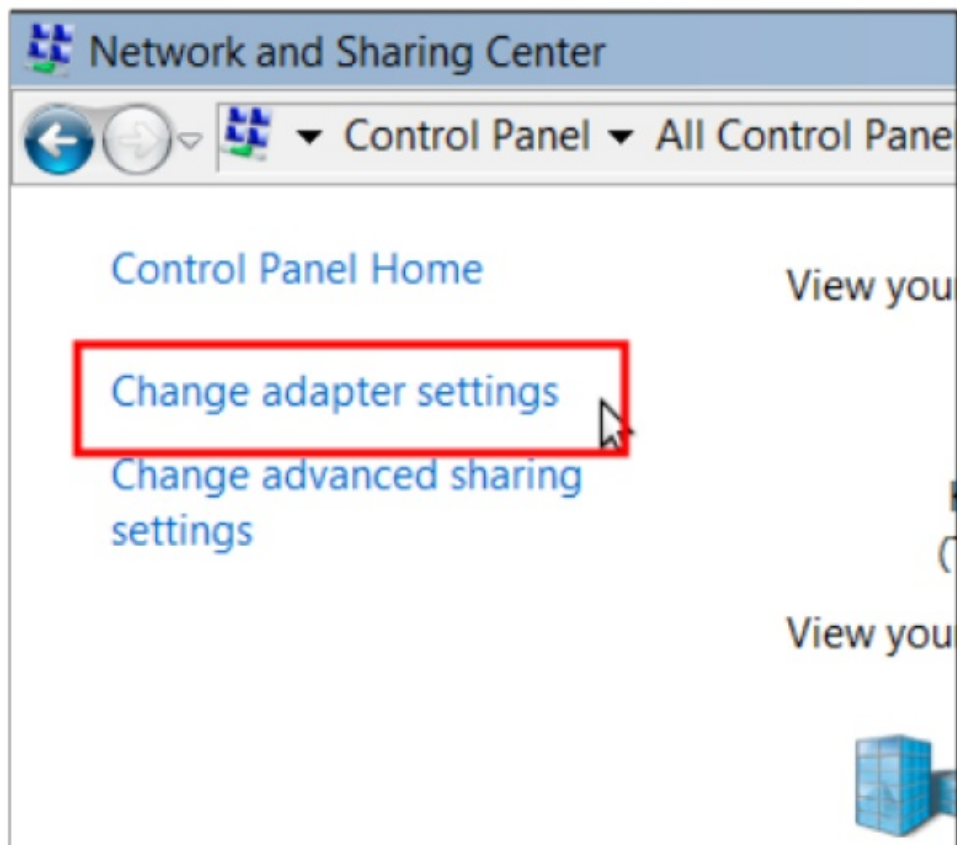1. Open the Start Menu and choose Control Panel.

2. In category view, open Network and Internet.
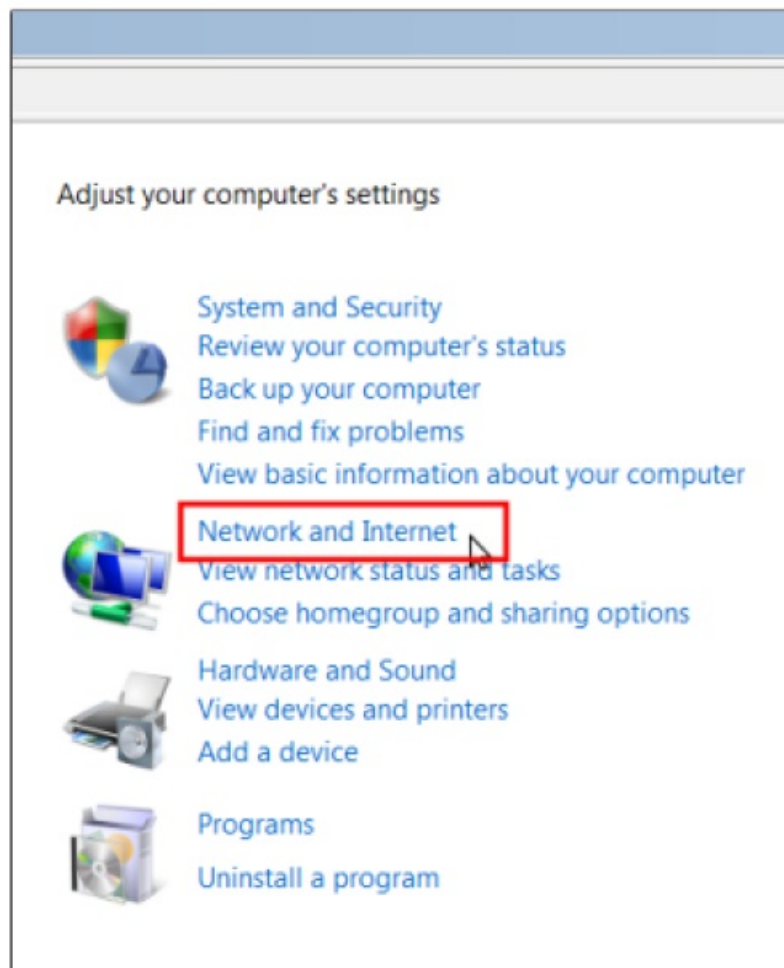
3. Choose Network and Sharing Center.

4. On the left side, open Change Adapter Settings.

5. Disable any network connections you are not using to connect to the eGauge by right-clicking them and choosing Disable. This should be done for any wireless adapters when connected via Ethernet to the eGauge or HomePlug adapter.

6. Right-click the adapter you will be using to connect to the eGauge and choose Properties.
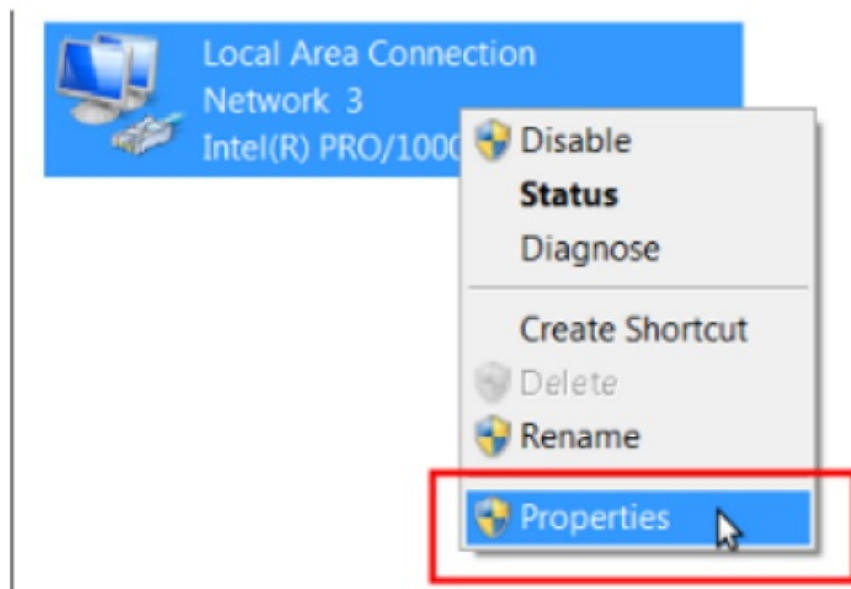

7. In the Properties window, click the item listed as Internet Protocol Version 4 (TCP/IPv4) and click the Properties button.
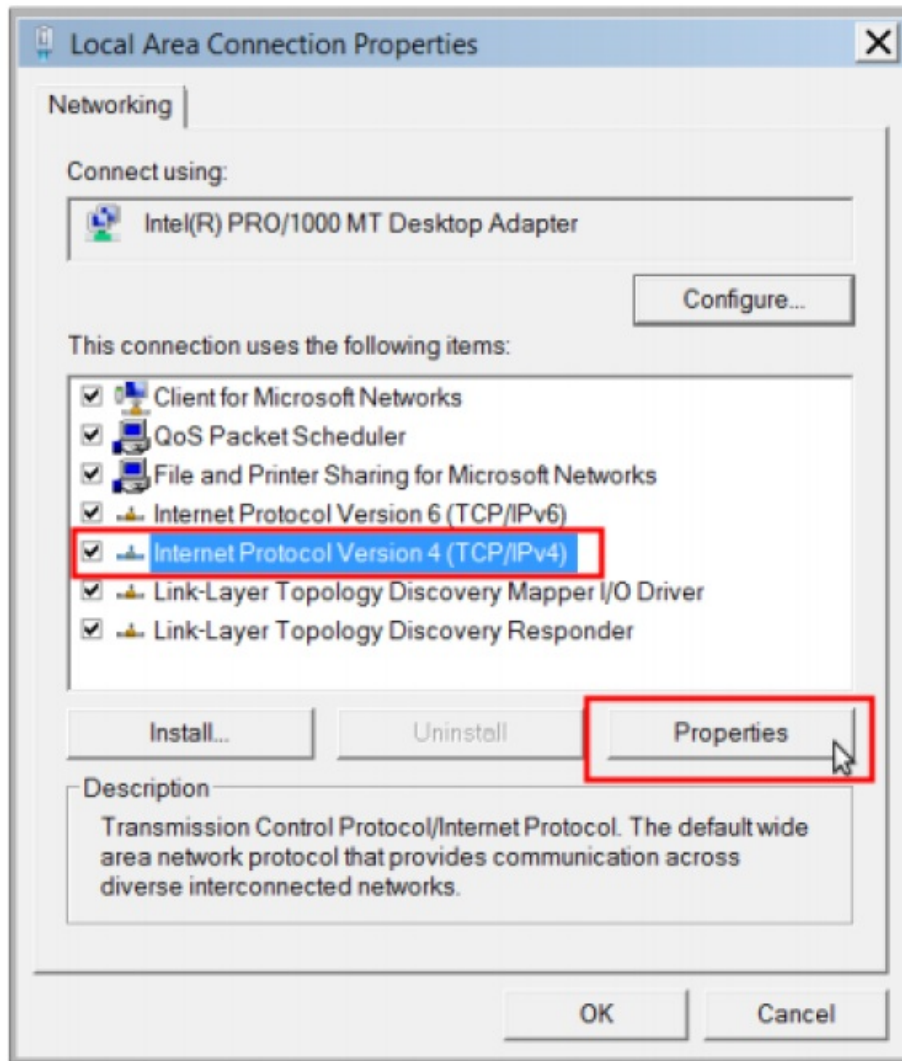
8. If Use the following IP address already contains values, write these down as they will be overwritten.

9. Click the radio button that says Use the following IP address and enter the following values:
   - IP address: 192.168.1.11
   - Subnet mask: 255.255.255.0

10. Click OK to save the changes and then click Close to close the properties window. To verify settings, right-click again on the adapter that was modified and choose Status and then Details. Look to see that IPv4 Address matches 192.168.1.11.

11. Access the eGauge at http://192.168.1.88. When done accessing the eGauge, revert any adapter's properties that you have changed during this process.

Mac OS X (tested on Mountain Lion 10.7)

1. Click the network icon in the upper right hand corner of the screen and choose Open Network Preferences.
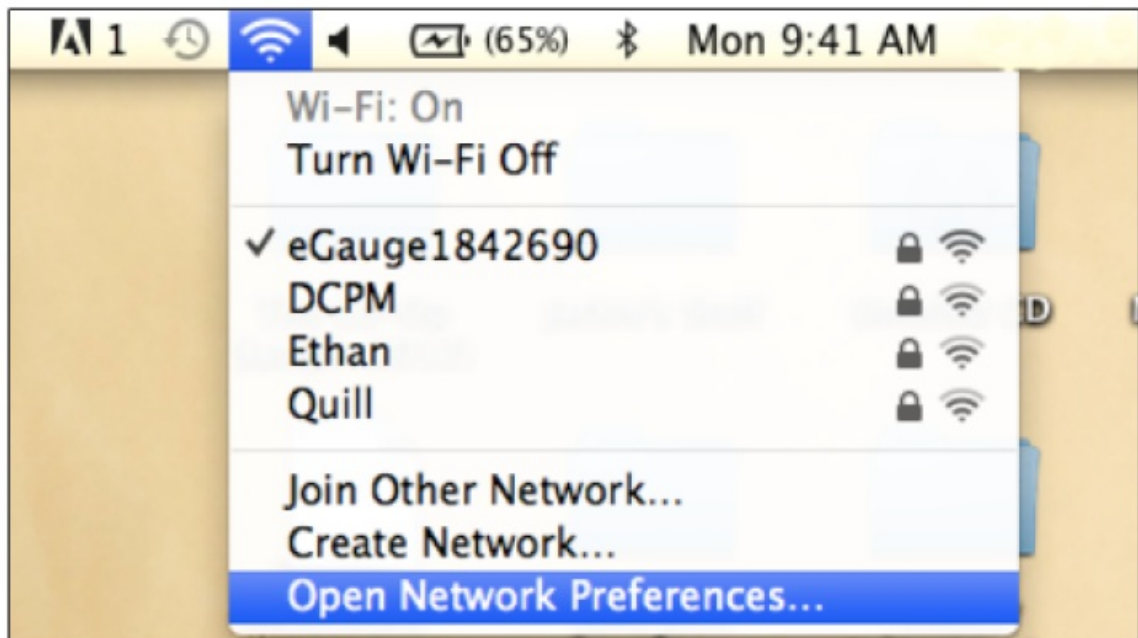
2. Click Wi-Fi on the left hand column and then Turn Wi-Fi Off.
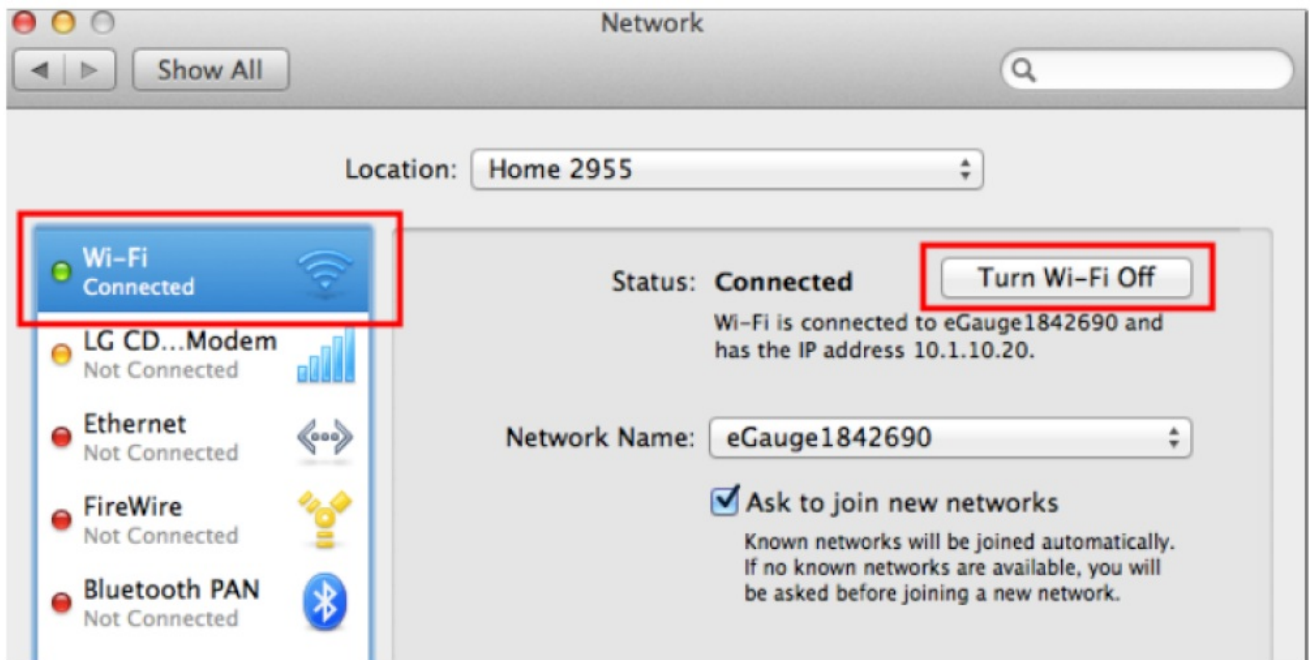
3. Click Ethernet on the left hand column, and next to Configure IPv4 choose Manually from the drop down menu. If Manually is already selected, take note of all values as they will be overwritten and should be restored after this process.
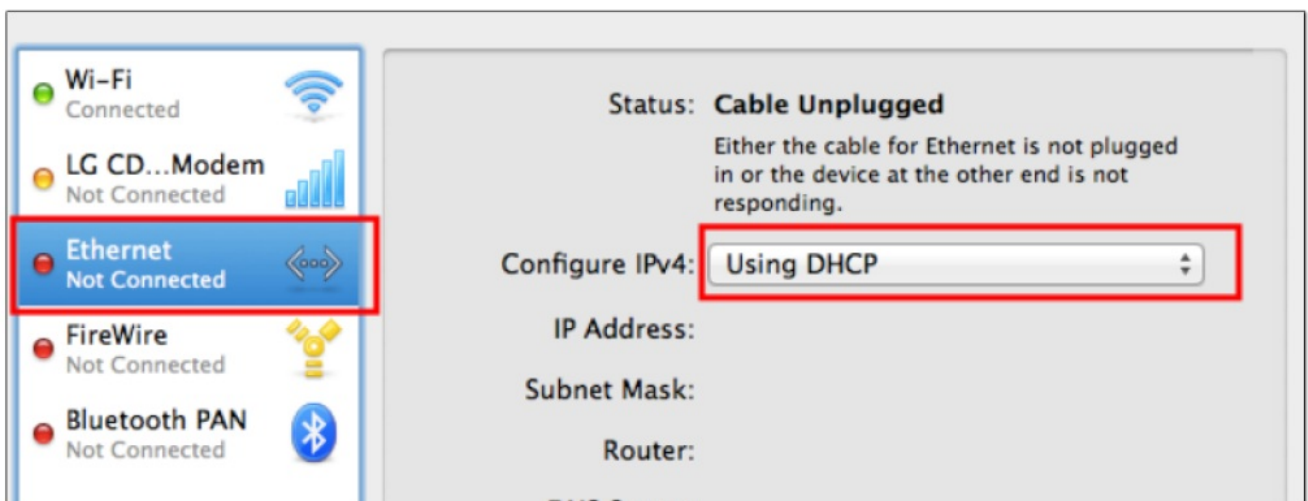
4. Enter the following information in the configuration boxes:
   - IP address: 192.168.1.11
   - Subnet mask: 255.255.255.0
5. Click Apply to save changes.
6. Access the eGauge at **http://192.168.1.88**. When done accessing the eGauge, revert any adapter's properties that you have changed during this process.

Linux/Unix

1. Open a terminal session
2. Locate the name of your network connections by using the command ifconfig. There should be a device such as athX, ethX, or wlanX where X is a number with information pertaining to the current IP address. Newer systems may use Predictable Interface Names, such as enoX, ensX, enpXsY, and so on.
3. Enter the following commands, where [eth con] is your Ethernet connection name and [wifi con] is your wireless connection name (if applicable).
   - sudo ifconfig [wifi con] down
   - sudo ifconfig [eth con] down
   - sudo ifconfig [eth con] 192.168.1.11 netmask 255.255.255.0
   - sudo ifconfig [eth con] up
4. The eGauge is now accessible at **http://192.168.1.88**.

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Documents / Resources

	eGauge EG4xxx Proxy Server [pdf] User Guide EG4xxx Proxy Server, EG4xxx, Proxy Server, Server