



Tutorial 1: Configuring the eGauge with a static IP

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1.1 Introduction to configuring a static IP

eGauge normally obtains its IP address and associated information automatically through a service called Dynamic Host Configuration Protocol (DHCP). If you cannot or do not wish to run this service on your LAN, the device will default to an IP address of 192.168.1.88; the device can be accessed at:

<http://192.168.1.88/>

However, if another device is using the same address, a conflict will occur and neither device can be accessed reliably. For this reason, we recommend configuring a static IP address if DHCP is not available. To do so, visit the above URL, click on **Settings**, then on **Network Settings**.

Hostname [?]:

Automatically obtain address with DHCP [?]: ←

IP address [?]: . . .

Netmask [?]: . . .

Network [?]: . . .

Broadcast address [?]: . . .

Gateway address [?]: . . .

Name server 1 [?]:

Name server 2 [?]:

Name server 3 [?]:

Name server 4 [?]:

Enable bridging [?]:

Uncheck the box labeled "Automatically obtain address with DHCP" and then enter the appropriate values into the newly enabled fields (you may need to consult your IT specialist to determine appropriate values). Once the values are entered, click on **Save**. You may be prompted for the authorization to make the change. The default credentials are **owner** for the user and **default** for the password. This will save the new settings and restart the device as necessary. After making these changes, the device can be accessed at:

<http://staticip/>

where `staticip` is the static IP address you just configured.

1.1.1 DNS Resolution

If no name servers (DNS servers) are configured, the eGauge will be unable to connect to the proxy server host (d.egauge.net), and will be unavailable for on-line remote access (eg, <http://devname.egaug.es/>). Sometimes there are problems with internal name servers failing to resolve the eGauge proxy server. If this is the case, enter additional external name servers, such as Google Public DNS at 8.8.8.8 and 8.8.4.4.

1.2 Setting the eGauge with a static IP

To begin, contact your IT or Network Administrator to gather the following information:

- IP Address to be assigned to the eGauge device
- Netmask for the network the eGauge will be on
- Network that the eGauge will be on (*generally* similar to the IP address, with a 0 as the last octet)
- Broadcast Address for the network the eGauge will be on
- Gateway Address for the network the eGauge will be on
- Up to 4 Name Servers for the eGauge

After configuring a device to communicate directly with the eGauge (see the tutorial [Connecting to the eGauge directly](#) for assistance, found at <http://www.egauge.net/support/#documentation>),

1. Open a web browser and connect to the eGauge's default IP address (<http://192.168.1.88>).
2. You will be taken to the eGauge device page. From there, click **Settings** in the top right part of the page.
3. Choose **Network Settings** from the left side navigation bar. Here you will uncheck "Automatically obtain address with DHCP" and enter the settings provided by your network administrator.



TAKE NOTE of the **exact** settings you have entered; if they are saved incorrectly the device will be unable to connect to the network and you will have to repeat this process with a different IP address on the device you are configuring the eGauge from.



4. Click Save and the eGauge will reboot. Disconnect the eGauge from the computer used to configure the static IP, and connect it to the network via Ethernet direct or HomePlug adapter. Revert any network changes made to the device that was used to configure the eGauge.

1.3 FAQ and troubleshooting

For a full collection of troubleshooting documents, please visit the eGauge support page located at <http://egauge.net/support/>.

- ◇ My device is no longer connected to the proxy server, but I can access it locally.
 - Verify there are proper nameserver entries. Refer to [Section 1.1.1, DNS resolution](#).
 - Verify all network settings are appropriate (incorrect gateway, subnet mask, or broadcast address configuration can keep the device offline).
 - Verify that your internet connection is functioning.
 - Verify the eGauge is properly connected to the local area network (check the Ethernet cables and HomePlug, if applicable)

- ◇ My IP address was typed in incorrectly, and I don't know what it is!
 - Running a packet capture with a program such as Wireshark from a computer connected directly to the eGauge should reveal communication attempts from the eGauge therefore revealing the IP address.
 - If using model EG30xx, performing a factory reset will force the network configuration back to DHCP. Note that this will revert *all* settings on the eGauge to their factory default.