Connecting directly to the eGauge

Overview

The eGauge is most commonly accessed through the proxy server, using an address in the form http://DEVNAME.egaug.es, http://**DEVNAME**.d.egauge.net or https://**DEVNAME**.egauge.io. 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 Ethernet 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".

🖭 All Control Panel Items						– 🗆 X
← → × ↑ 🖭 > Control Panel > All Co	ontrol Panel Items					V Ö Search Co 🔎
Adjust your computer's settings						View by: Large icons 🔻
Administrative Tools	AutoPlay			Color Management	Q	Credential Manager
Date and Time	Default P	rograms	4	Device Manager	R	Devices and Printers
Display	File Explo	rer Options	A	Fonts	۲	Intel® Rapid Storage Technology
Internet Options	실 Java		\langle	Keyboard	F	Language
🥏 Mouse	Metwork <u>Center</u>	and Sharing Network and Sharing Ce	enter	NVIDIA Control Panel	K	Personalization
Power Options	Programs	Check network status, cl network settings and set for sharing files and prin	hange t prefere iters.	nces Itek HD Audio Manager	Ð	Region
Security and Maintenance	Sound			System		Taskbar and Navigation
Troubleshooting	용 User Acco	ounts	•	Windows Defender		Windows Firewall

4. Select "Change Adapter Settings".

Control Panel Home

Change adapter settings Change advanced sharing 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.

🖗 Ethernet Properties >	<						
Networking							
Connect using:							
🚽 Killer E2200 Gigabit Ethemet Controller							
Configure This connection uses the following items:							
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks Npcap Packet Driver (NPCAP) QoS Packet Scheduler Internet Protocol Version 4 (TCP/IPv4) Microsoft LLDP Protocol Driver Internet Protocol Version 6 (TCP/IPv6) 							
Install Uninstall Properties							
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. OK Cancel							

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 automatical	у				
• Use the following IP address:					
IP address:	192.168.1.11				
Subnet mask:	255 . 255 . 255 . 0				
Default gateway:					
Obtain DNS server address autom	natically				
Ouse 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.

Local Area Connection Properties	X		
Networking			
Connect using:			
Intel(R) PRO/1000 MT Desktop Adapter			
Configure	1		
This connection uses the following items:			
 Client for Microsoft Networks QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder 			
Install Uninstall Properties			
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.			
OK Cancel			

10. If Use the following IP address already contains values, write these down as they will be overwritten.

Local Area Connection Properties					
Networking					
c					
Internet Protocol Version 4 (TCP/IPv4) Properties	? ×			
General					
T 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 automatical 	ly				
Use the following IP address		_ []			
IP address:	192.168.1.11				
Subnet mask:	255.255.255.0				
Default gateway:					
C Obtain DNS server address automatically					
— Use the following DNS server add	resses	— II			
Preferred DNS server:					
Alternate DNS server:					
Validate settings upon exit	Advanced	I			
	ОК	incel			

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.

Local Area Connection Properties		×
Networking		
Connect using:		
Intel(R) PRO/1000 MT Desktop Adapter		
, 	Configu	re
This connection uses the following items:		
Client for Microsoft Networks		
QoS Packet Scheduler		
Real File and Printer Sharing for Microsoft Ne	tworks	
Internet Protocol Version 6 (TCP/IPv6)		
Internet Protocol Version 4 (TCP/IPv4)	1	
🗹 🛶 Link-Layer Topology Discovery Mappe	r I/O Driver	
🗹 🛶 Link-Layer Topology Discovery Respo	nder	
,		
Install Uninstall	Propertie	es N
Description		13
Transmission Control Protocol/Internet Proto	col. The defaulty	vide
area network protocol that provides commun	ication across	
diverse interconnected networks.		
	ж с	Cancel

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.

0	00		Network	
C	▲ ▶ Show All			Q
		Loc	ation: Home 2955	* *
	Wi-Fi Connected	(\cdot)	Status: 0	Connected Turn Wi-Fi Off
1	⊖ LG CDModem Not Connected	all	, i	Vi-Fi is connected to eGauge1842690 and has the IP address 10.1.10.20.
	Ethernet Not Connected	~~ >	Network Name:	eGauge1842690 ‡
	FireWire Not Connected	黛	0	Ask to join new networks Known networks will be joined automatically.
	Bluetooth PAN Not Connected	8		If no known networks are available, you will be asked before joining a new network.
	Not Connected	2	be asked before joining a new network.	

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.

⊖ Wi-Fi Connected	6	Status: Ca	able Unplugged
⊖ LG CDModem Not Connected	all	Eiti in c res	her the cable for Ethernet is not plugged or the device at the other end is not sponding.
Ethernet Not Connected	∞≫	Configure IPv4: U	Ising DHCP \$
FireWire Not Connected	46	IP Address:	
Rustooth PAN		Subnet Mask:	
Not Connected	1	Router:	
		DNC Correct	

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.

Please visit kb.egauge.net for the most up-to-date documentation.