



Quickstart Guide

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*******CAUTION/ATTENTION*******

Before You Start...

- Electrical work should be done by a certified electrician
- Always install eGauge energy meters in accordance with NEC rules and regulations
- Turn off power to the electrical panel, be careful!
- Always connect a neutral line, never connect a ground line
- Warning: Not every configuration shown, this document is not labeled for international electrical systems
- This installation requires verification from within the eGauge user interface

This guide is only intended to help complete the physical installation of your eGauge.

For more comprehensive instruction and software configuration, go to eGauge.net/support

Understanding Phases

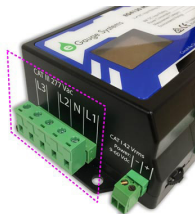
To properly install an eGauge, it is critical to understand the concept of a phase. A phase of an electrical system represents one line of power. Typically, electrical panels have multiple phases powering the breakers within it. For example, a 120/240VAC residential panel has 2 distinct phases, and the breakers in that panel are either powered by Phase A or Phase B. When measuring power, you must multiply a voltage by a current to get power for a circuit. A current on Phase A must be multiplied by the voltage of Phase A to correctly calculate power. Use the table at the end of the next section to note which phase (A, B, or C) of the electrical system is connected to which voltage terminal position (L1, L2, or L3) on the eGauge.

If you are using a **HomePlug Adapter**... The phase powering the HomePlug Adapter's outlet should be connected to L1 of the voltage terminal block.

For more information visit the eGauge Support Knowledge-base,
eGauge.net/support

AC Voltage Port Connection

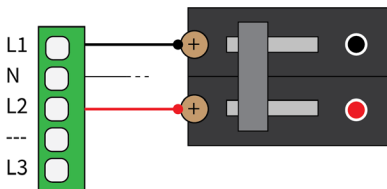
1. Determine your electrical service type.
2. Connect your eGauge “N” terminal to the neutral bus bar of the electrical panel using NEC compliant conductor.
3. Connect L1, L2, and L3 (if applicable) to a breaker or fuse block using NEC compliant conductor. Ensure each line is connected to its respective voltage phase in the panel. It is very important that L1, L2, and L3 (if applicable) are all connected to independent phases. Record which phase is connected to which voltage terminal pin in the table provided.



Note: Measuring multiple electrical services requires multiple eGauge units.

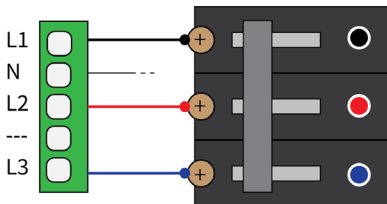
Power-off Electrical Panel!

120/240VAC (1p/3w)



eGauge	L1	L2
Phase		

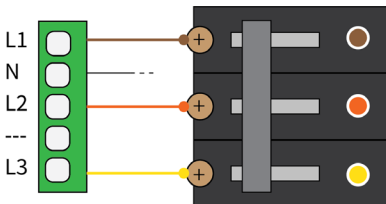
120/208VAC (3p/4w)



eGauge	L1	L2	L3
Phase			

Power-off Electrical Panel!

277/480VAC (3p/4w)



eGauge	L1	L2	L3
Phase			

If you do not see your electrical service, check out our full configuration guide on eGauge.net/support



Visit the eGauge Support Knowledge-base for more information about connecting current transformers and FAQs .

eGauge.net/support

	CT mfg., size, amp rating	Circuit Name	Phase
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

	CT mfg., size, amp rating	Circuit Name	Phase
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

	CT mfg., size, amp rating	Circuit Name	Phase
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Network Connection

HomePlug Considerations

- Install the adapter no more than 100ft from the eGauge meter
- Do not push the pairing button on the front of the adapter
- Do not plug into a surge protector or power strip
- Check for network connection before leaving the installation site; in a new browser window, go to:
eGauge.net > “Find My Device” > Enter your device name in the search field (your device name can be found on the included information stickers or the LCD interface)



HomePlug AV Power line Communication

1. Plug the HomePlug AV adapter into a wall outlet near a router or network switch. **Do not plug the adapter into a surge protector or power strip.**
2. Connect one end of the included Ethernet cable into the adapter and the other end into a router or network switch.
3. Ensure the three LEDs on the HomePlug adapter are illuminated. Power should remain solid, data and network connections should blink rapidly.
4. Go to your eGauge device and check for HomePlug connection. You should see this symbol (⤴) in LCD the status bar and it should be blinking if there is internet access.
5. Not Blinking? Check your phases or visit eGauge.net/support for FAQs.

Ethernet Connection

Important: Do not use grounded RJ45 connectors! If there is metal on the RJ45 connector, **do not** use it.



- Ethernet connections have a max distance of 300ft
- Check newly made CAT5/6 cables with a network cable diagnostic tool
- After connecting to a network source, check for the connectivity symbol (🌐) on the eGauge LCD screen

Commissioning

Before closing the electrical panel and leaving the site, make sure to properly commission the installation. Check for the following...

- All recorded CTs match the correct voltage phase. Go to eGauge.net/support for instructions on phase checking
- Ensure the all CTs are facing the correct direction and fully latched
- Network connectivity on the eGauge LCD screen
- Network connectivity with a new browser window
- After you've completed every step, re-energize the electrical panel

FAQs + Configuration

Once installed, your eGauge needs to be configured using a computer on the local area network. Take this guide with you; the voltage and CT tables should contain all the information you need to configure your device.

- Configuration tutorials and FAQs can be found online in our support knowledge-base, eGauge.net/support

More helpful links:

Owner's Manual: <http://www.egauge.net/media/support/docs/eg4xxx-manual.pdf>

Support Contact Info:

Web: <https://eGauge.net/support>

Email: support@eGauge.net

Phone: 720-545-9767 x2