

EMPORIA EMV3A-2P-WH

Emporia Vue 3 Home Energy Monitor User Manual

Model: EMV3A-2P-WH

1. INTRODUCTION

This manual provides instructions for the installation, operation, maintenance, and troubleshooting of the Emporia Vue 3 Home Energy Monitor. The Emporia Vue 3 is designed to provide real-time electricity usage monitoring for residential applications, supporting energy management and cost reduction.

The Emporia Vue 3 Home Energy Monitor is UL Listed, ensuring it meets rigorous safety standards for electrical products in the U.S. and Canada. This certification confirms that all components have been thoroughly tested to prevent hazards such as overheating, short-circuiting, or fire.

Key Features:

- UL Certified for Safety
- 24/7 Energy Management and Monitoring
- Real-time Energy Data via 2.4 GHz WiFi
- Appliance Monitoring (with optional branch sensors)
- Solar / Net Metering Monitoring
- Automated Energy Management features

2. SAFETY INFORMATION

WARNING: Installation of this device involves working with high voltage electricity. It is recommended that installation be performed by a qualified electrician. Failure to follow these instructions may result in electrical shock, fire, or other serious injury.

- Always turn off the main power supply at the circuit breaker before beginning any installation or maintenance.
- Ensure all connections are secure and properly insulated.

- Do not install in wet or damp locations.
- The device is designed for indoor use only.
- Refer to local electrical codes and regulations for proper installation procedures.



Image: UL Certified logo, indicating the Emporia Vue 3 meets safety and quality standards for reliable energy management.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Emporia Vue 3 Energy Monitor Unit
- Current Transformers (CTs) - Main (200A) and Branch (50A, quantity varies by model)
- Wire Harness
- WiFi Antenna Assembly
- Wire Nuts
- Splicing Wires



Image: The Emporia Vue 3 Home Energy Monitor unit with main current transformers (CTs) and branch CTs, along with the WiFi antenna. This image illustrates the primary components included in the package.

4. SETUP AND INSTALLATION

The Emporia Vue 3 installs within the circuit panel of most homes. It supports Single phase, Single-split phase, and 2-wire systems. For 3-wire systems or 3-phase, 4-wire Wye systems with earthed (TN or TT) neutral (no-Delta), an additional 200A sensor is required (sold separately).

4.1 Pre-installation Checklist

- Ensure you have a 2.4 GHz WiFi network with an internet connection available.
- Download the Emporia Energy App on your iPhone or Android device.
- Gather necessary tools: screwdriver, voltage tester, wire strippers (if needed).
- Familiarize yourself with your home's electrical panel layout.

4.2 Installation Steps

1. **Turn off Main Power:** Locate your main circuit breaker and turn off the power to your entire home. Verify power is off using a voltage tester.
2. **Open Electrical Panel:** Carefully open the cover of your electrical panel.
3. **Install Main CTs:** Clamp the two main 200A Current Transformers around the main service wires coming into your electrical panel. Ensure the arrows on the CTs point towards the load (away from the utility meter). Connect the CT wires to the designated ports on the Vue 3 unit.
4. **Install Branch CTs (Optional):** For individual circuit monitoring, clamp the 50A branch CTs around the hot wires of the circuits you wish to monitor. Connect these CT wires to the remaining ports on the Vue 3 unit. New screw terminals allow for trimming CT wires to reduce panel clutter.
5. **Connect Power to Vue 3:** Connect the wire harness from the Vue 3 unit to a 120V circuit breaker (typically a single-pole 15A or 20A breaker) and the neutral bar in your panel.
6. **Mount Vue 3 and Antenna:** Securely mount the Vue 3 unit inside the panel or in an adjacent enclosure. Attach the WiFi antenna assembly, positioning it for optimal signal reception.
7. **Close Panel and Restore Power:** Carefully replace the electrical panel cover. Turn the main power supply back on.
8. **App Configuration:** Open the Emporia Energy App and follow the on-screen instructions to connect your Vue 3 to your WiFi network and configure your circuits.

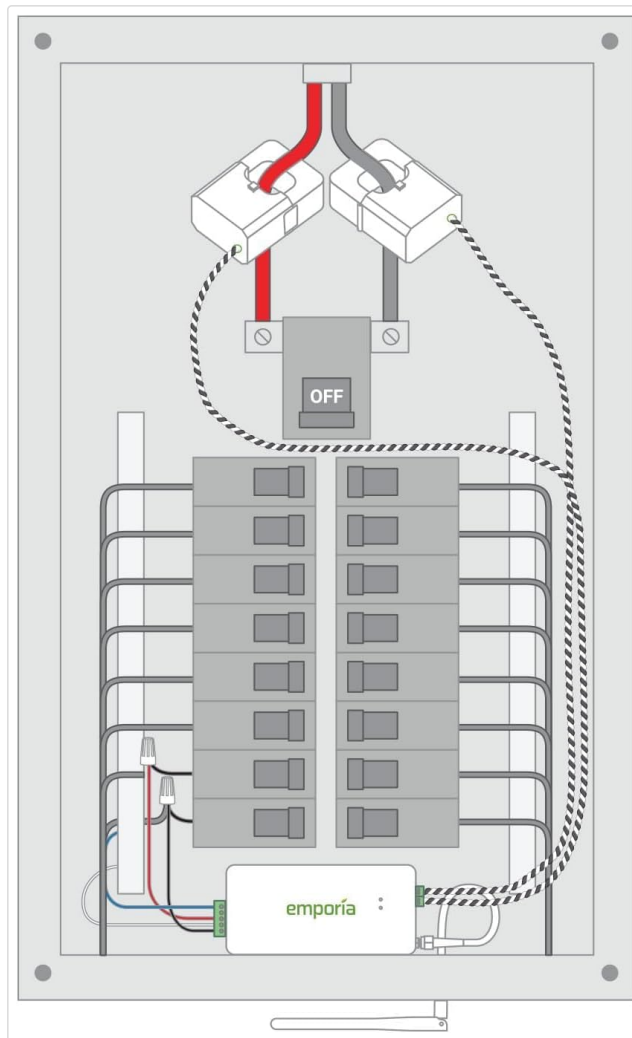


Image: An Emporia Vue 3 unit installed within an electrical circuit panel, showing the main CTs clamped around the service wires and multiple branch CTs connected to individual circuit breakers. This illustrates a typical installation scenario.

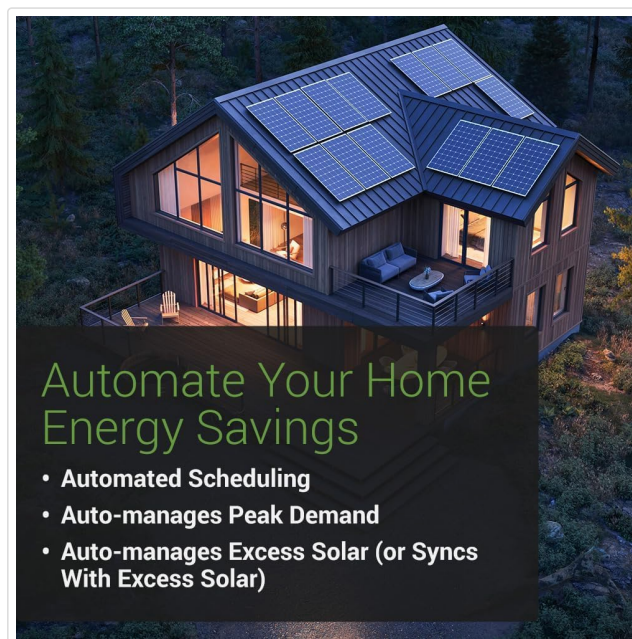


Image: A simplified wiring diagram showing the connection of the Emporia Vue 3 to main service wires and individual circuit breakers within an electrical panel. It highlights the placement of main and branch CTs and the power connection.

5. OPERATING THE EMPORIA VUE 3

The Emporia Vue 3 operates primarily through the Emporia Energy mobile application, available for iPhone and Android devices, and a web interface.

5.1 Real-time Energy Monitoring

Once installed and configured, the Vue 3 provides real-time energy data. This data is accurate to within $\pm 2\%$. One-second data is available in the app when actively open and is retained for 3 hours. Minute and hour data are retained in the cloud, with 1-minute data retained for 7 days and 1-hour data retained indefinitely. Cloud data can be exported at any time through the app.

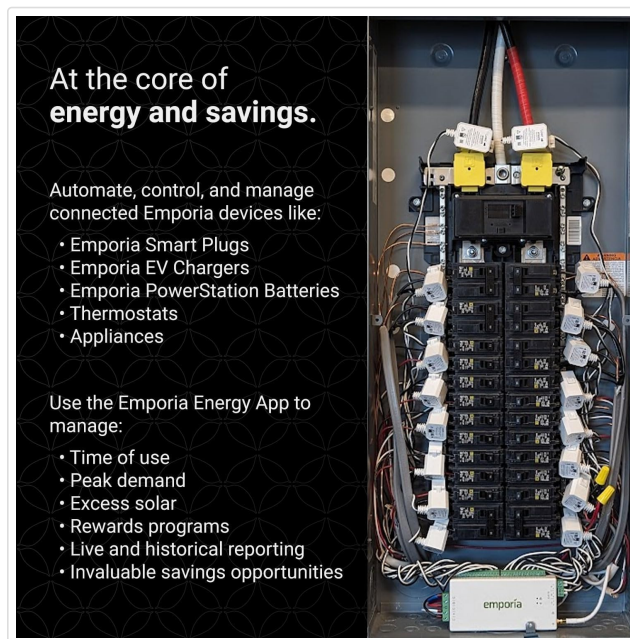


Image: A screenshot of the Emporia Energy mobile application interface, showing real-time energy consumption data, including total usage and breakdown by individual circuits or appliances. A graph illustrates historical energy trends.

5.2 Energy Management Features

- **Automated Scheduling:** Configure settings within the app to automate energy management based on time-of-use rates or other preferences.
- **Peak Demand Management:** The system can help manage peak demand to reduce costs.
- **Solar / Net Metering:** Monitor solar production and net metering to understand energy generation versus consumption.
- **Customizable Alerts:** Receive notifications for various events, such as approaching monthly peak energy use, appliances left on, or appliances consuming more energy than expected.

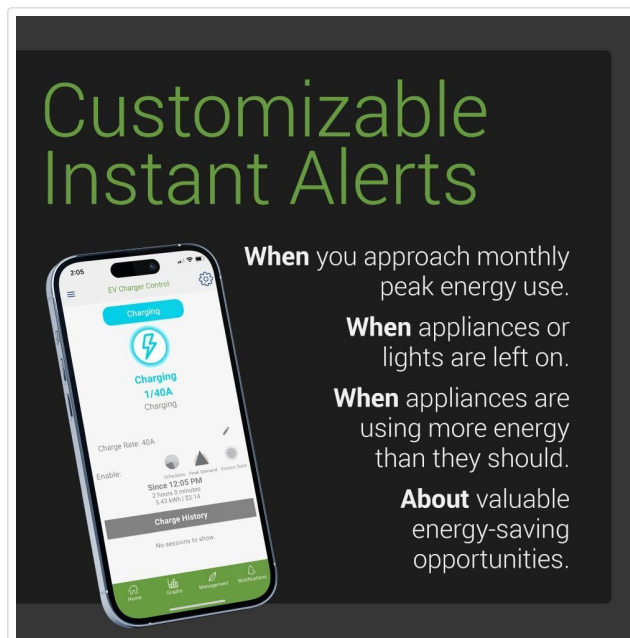


Image: A mobile phone screen displaying the Emporia Energy app with an alert notification. The alert indicates an appliance (e.g., oven) has been on for an extended period, demonstrating the customizable alert feature.

6. MAINTENANCE

The Emporia Vue 3 Home Energy Monitor is designed for minimal maintenance. Regular checks can ensure optimal performance.

- **Software Updates:** Ensure your Emporia Energy App is always updated to the latest version for new features and performance improvements. The Vue 3 firmware updates are typically managed automatically via the app.
- **Physical Inspection:** Periodically inspect the device and its connections within the electrical panel for any signs of damage or loose wiring. This should only be done by a qualified individual with the main power turned off.
- **Cleaning:** If necessary, gently wipe the exterior of the Vue 3 unit with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **WiFi Connection:** Ensure a stable 2.4 GHz WiFi connection for continuous data monitoring. If data drops occur, check your router and network settings.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Emporia Vue 3 Home Energy Monitor.

7.1 No Data in App / Device Offline

- **Check WiFi:** Ensure your 2.4 GHz WiFi network is active and the internet connection is stable.
- **Antenna Placement:** Verify the WiFi antenna is securely connected and positioned for optimal signal. Consider relocating the antenna outside the panel if signal strength is an issue.
- **Power to Vue 3:** Confirm the circuit breaker supplying power to the Vue 3 is ON.

- **Restart Device:** Turn off the circuit breaker supplying power to the Vue 3 for 30 seconds, then turn it back on.

7.2 Inaccurate Readings

- **CT Orientation:** Ensure the arrows on all Current Transformers (CTs) are pointing in the correct direction (towards the load).
- **CT Connections:** Verify all CT wires are securely plugged into the correct ports on the Vue 3 unit.
- **App Configuration:** Double-check that the circuit configurations in the Emporia Energy App match your physical wiring. For 220V circuits using one CT, ensure the "double" usage measurement option is correctly applied in the app.

7.3 App Issues

- **Update App:** Make sure your Emporia Energy App is updated to the latest version.
- **Clear Cache/Reinstall:** If the app is unresponsive, try clearing its cache or reinstalling it.
- **Internet Connection:** Ensure your mobile device has a stable internet connection.

8. SPECIFICATIONS

Feature	Specification
Model Number	EMV3A-2P-WH
Manufacturer	Emporia Corp.
Dimensions	3.5 x 1.25 x 2.25 inches
Item Weight	1.92 pounds
Color	White
Material	Gen 3
Connectivity	2.4 GHz WiFi (Internet connection required)
Accuracy	±2%
Certifications	UL Listed, CE Listed
Supported Systems	Single phase, Single-split phase, 2-wire systems. 3-wire systems; 3-phase, 4-wire Wye systems with earthed (TN or TT) neutral (no-Delta) with additional 200A sensor.

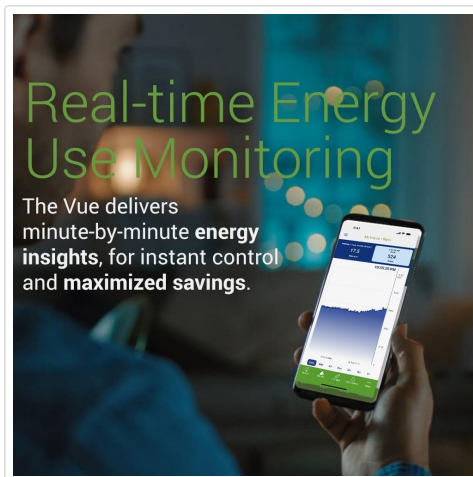


Image: Technical drawing illustrating the dimensions of the main 200A Current Transformer (CT) used with the Emporia Vue 3, including height, width, and cable specifications.

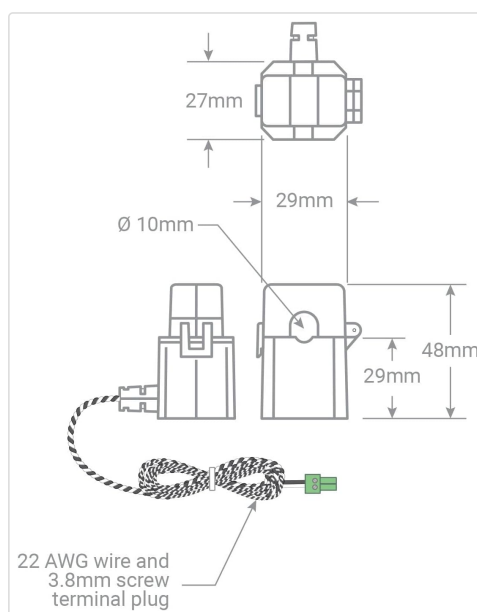


Image: Technical drawing illustrating the dimensions of the 50A branch Current Transformer (CT) used with the Emporia Vue 3, including height, width, and cable specifications.

9. WARRANTY AND SUPPORT

The Emporia Vue 3 Home Energy Monitor is protected by a **1-year warranty**.

For technical support, troubleshooting assistance, or warranty claims, please contact Emporia customer service. Contact information can typically be found on the official Emporia Energy website or within the Emporia Energy App.

Online Resources:

- Visit the [EMPORIA Store on Amazon](#) for product information.
- Refer to the Emporia Energy App for the latest FAQs and support articles.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

I have 28 single-phase circuits in my panel; how can I monitor each of them using the Emporia Vue 3 Home Energy Monitor?

To monitor 28 individual single-phase circuits, you will need to use multiple Emporia Vue 3 units, as a single Vue 3 device supports a maximum of 16 branch sensors (50A CTs). Here is how you...

[Read full answer](#)