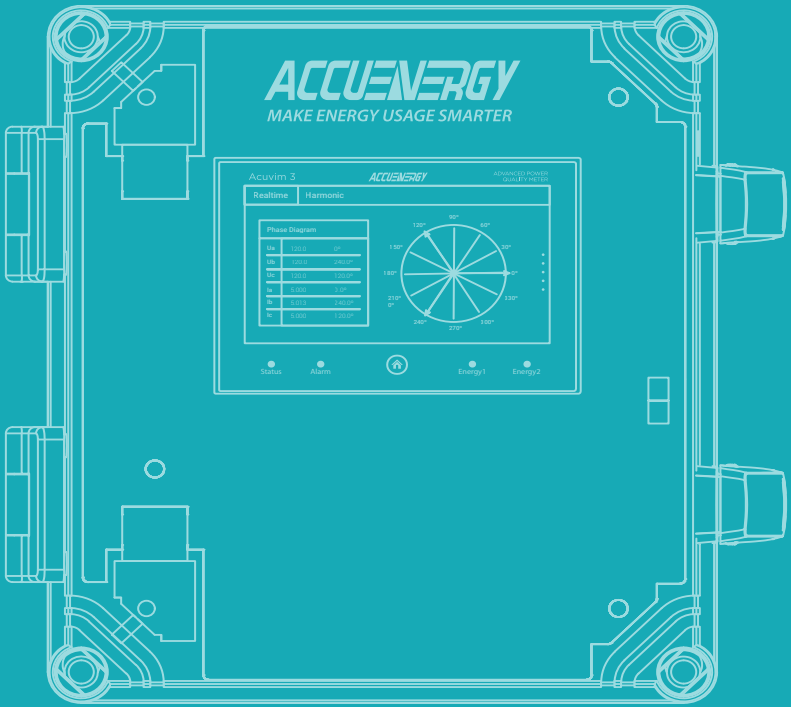
AcuPanel 9108X

POWER QUALITY SUBMETERING PANEL

QUICK SETUP GUIDE



c UL us UL 508A

ACCUENERGY

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Important Safety Notice

Read this document and the following symbols carefully before the installation, operation and maintenance of the AcuPanel 9108X.

Accuenergy is not responsible or liable for any damages or injuries caused by improper installation and/or operation.

- Prior to maintenance and repair, the equipment must be de-energized and grounded.
- A switch or circuit breaker must be included in close proximity to the equipment and operator.
- All maintenance work must be performed by qualified professionals with formal training and experience in high voltage/current.

The following symbols can be found either in this document or on the product.

ELECTRIC HAZARD: Indicates information about procedures which must be followed to reduce the risk of electric shock and danger to personal health.

INFO: Provides additional information before an action shall be taken by the user.

Legal Notice

This AcuPanel 9108X quick setup guide provides informational and operational guidance regarding the use of the panel. While effort has been made to ensure the accuracy, reliability, and completeness of the information at the time of publication, Accuenergy assumes no responsibility for any errors, omissions, or misunderstandings in this document and reserves the right to modify its content at any time without prior notice.

Users should verify with Accuenergy or the authorized local representative that the document in use is the latest version and strictly adhere to the installation, operation, and maintenance procedures specified herein. Accuenergy shall not be held liable for any damages or consequences resulting from improper use or failure to comply with the provisions of this document. This quick setup guide may not be altered or reproduced in whole or in part by any means without the expressed written consent of Accuenergy.

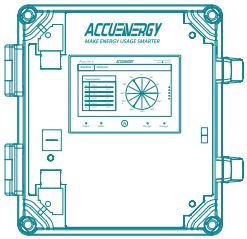
1. Package Contents

INFO

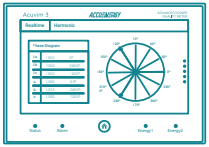
Carefully open the packaging of the panel and do not use excessive force. Inspect all the contents of the package are not damaged before installing the panel.

A	AcuPanel 9108X Power Quality Submetering Panel
B	Pre-installed Acuvim 3 Advanced Power Quality Meter
C	Four Wall Mount Lugs and Screws
D	Wi-Fi Antenna
E	CT Shorting Blocks
F	Quick Setup Guide (Not Pictured)

A

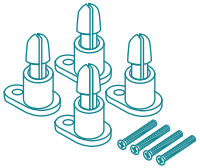


B

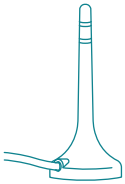


Acuvim 3

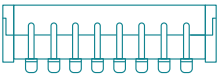
C



D

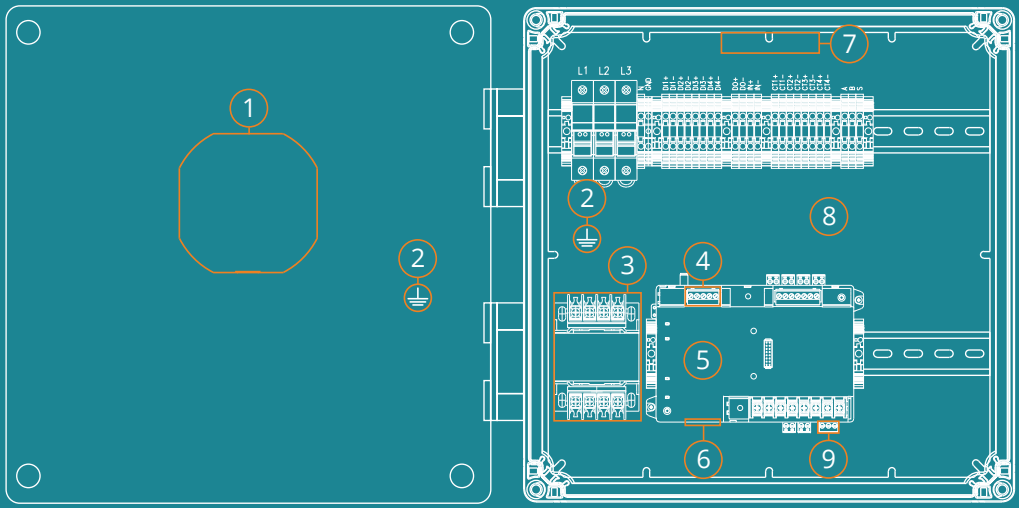


E



2. Power Quality Submetering Panel Internal Components

1	Acuvim 3 Meter Display
2	Ground Terminal
3	Control Power Transformer
4	Meter Power Supply Terminal
5	Acuvim 3 Advanced Power Quality Meter
6	Dual Ethernet Ports
7	Wiring Configuration Label
8	NEMA 4X Enclosure
9	RS485 Terminal



3. Installation and Commissioning



ELECTRIC HAZARD

Installation of AcuPanel 9108X must be performed by a qualified or licensed electrician.

Before commencing the wiring or service of the energy submetering panel, ensure to de-energize and lock out all the circuits.

Short the secondary of the CT before disconnecting. Do not leave the secondary of the CT open on an energized conductor.

Ensure the polarity of the CT aligns with the connected phase correctly.

To reduce the risk of electric shock, always open or disconnect the circuit from the building power distribution system before installing or servicing current transformers.

Verify the service is fully disconnected before making any voltage connections. Connect the common ground point of the AcuPanel 9108X to the facility grounding system. Ensure proper protective earthing and compliance with electrical safety standards.

To commission the AcuPanel 9108X at the installation location, follow the steps provided.

1. To vertically surface mount the AcuPanel 9108X, insert the four wall mount lugs into the four corner mounting holes at the rear of the subpanel enclosure. Secure the screws through the lugs onto the surface. Allow sufficient clearance for conduit and panel door swing.

2. Drill holes in the appropriate location in the AcuPanel 9108X enclosure as required for conduit and cable entry as per requirement. Ensure to maintain the enclosure's environmental protection rating.

3. Install conduit between the distribution panel and the AcuPanel 9108X. Route voltage leads, CT secondary cables, and communication cables through the conduit. Ensure that all wire sizes comply with local electrical codes.

4. It is recommended to install inline fuses on the A, B, and C leads for overcurrent protection. Connect voltage reference leads A, B, and C to the corresponding voltage terminals in the AcuPanel 9108X. Connect the N to the neutral bus in the distribution panel.

5. Install current transformers on the feeder lines in the distribution panel. Ensure the polarity arrow faces the load. Connect secondary leads to the designated current input terminals on the AcuPanel 9108X.

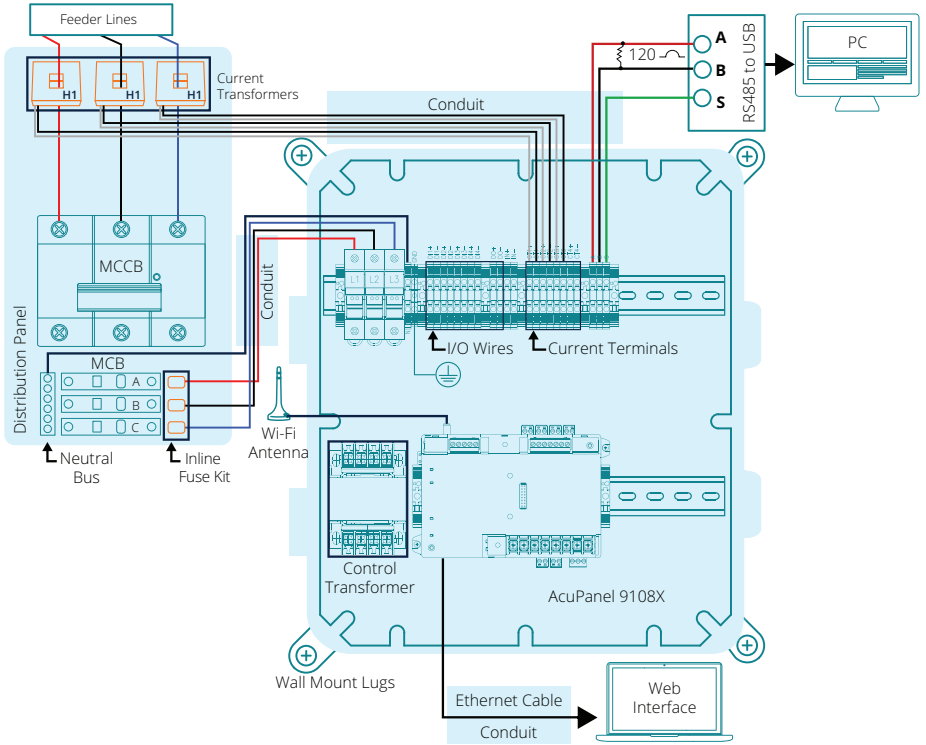
6. Connect the A+, B-, and S wires to the respective terminals and set up RS485 communication. Terminate the connection with a 120Ω resistor to prevent noise interference and connect the system to a PC using an RS485 to USB adapter.

7. Connect an Ethernet cable to one of the dual Ethernet Ports and set up Modbus TCP communication.

8. Attach the Wi-Fi antenna to the Acuvim 3 to enable wireless network connectivity for local and remote monitoring.

9. Route any digital input, digital output, and time synchronization to the DI1+, DI1- to DI4+, DI4-, DO+, DO-, and IN+, IN- terminals of the AcuPanel 9108X respectively.

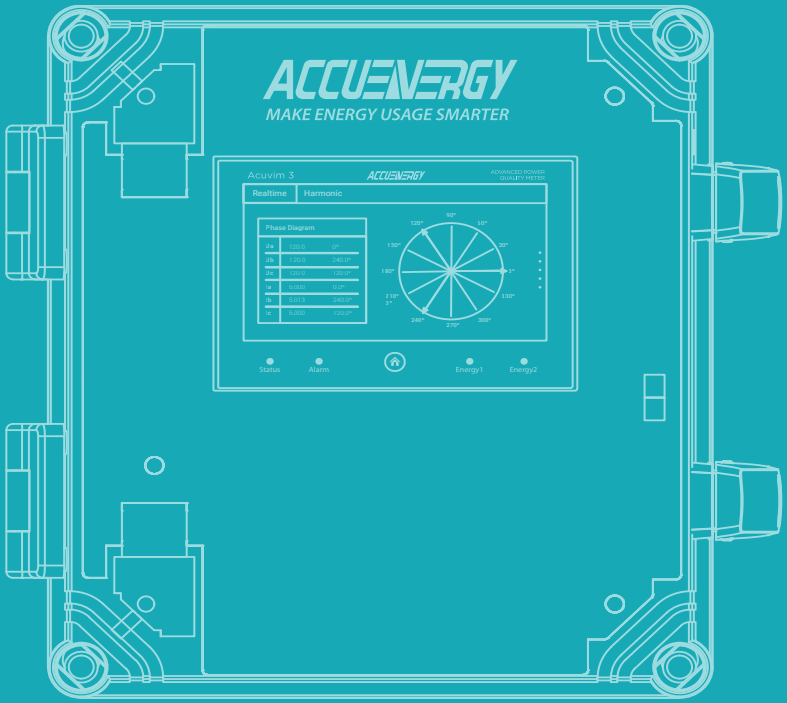
10.Optional I/O modules can be installed on top of the Acuvim 3 meter. If an additional I/O module is installed, connect the field wiring to its designated terminals according to the applicable module's terminals. Verify terminal assignments and requirements before connecting field devices.



4. Additional Resources

RESOURCE	DETAILS
Product Datasheet	https://www.accuenergy.com/acupanel-9108x-datasheet
Acuvim 3 User Manual	https://www.accuenergy.com/acuvim-3-manual

Contact fieldservices@accuenergy.com or **Accuenergy Technical Support** for any additional queries.



ACCUENERGY

Accuenergy Inc.
Los Angeles - Toronto - Pretoria
North America Toll Free: 1-877-721-8908
Web: www.accuenergy.com
Email: marketing@accuenergy.com

Revision Date: October 2026 Version: 1.0.0
Specs Subject To Change Without Notice.