

# AcuPanel 9108X

Pre-Wired Power Quality Control  
Panel Datasheet

ACCUEnergy



UL  
508A

## DESCRIPTION

The AcuPanel 9108X, featuring the factory-installed Acuvim 3 power quality meter, delivers precise and reliable energy measurements for a variety of applications. This pre-wired and pre-configured industrial control panel is ideal for both OEM projects and retrofit installations. Designed for convenience and reliability, the NEMA 4X rating and UL Listed certification ensure safe operation for both indoor and outdoor uses. Each AcuPanel 9108X undergoes rigorous testing to guarantee dependable, long-term performance.

## FEATURES

- + Includes the Acuvim 3 Series power quality meter.
- + Self-powered panel that supports line-to-neutral connection, does not require a separate power supply.
- + Pre-wired for fast and reliable installation, with all necessary fuses, shorting blocks, and terminal blocks pre-installed and clearly labeled.
- + The lockable design offers secure protection against unauthorized tampering.
- + Polycarbonate enclosure with NEMA 4X rating, suitable for indoor and outdoor applications.
- + Simple grounding included inside each enclosure.
- + No control transformer needed.
- + Pre-cut holes to allow wires to run through.
- + UL Listed to ensure safe operations.

## KEY FEATURES

### Power Quality Metering

- + Featuring the Acuvim 3, a premium power quality analyzer, the AcuPanel 9108X features a vibrant color touch screen display and complies with the IEC 61000-4-30 Class A standards, which is a globally recognized certification that ensures the precise measurement of various power quality parameters. AcuPanel 9108X is ideal for critical infrastructures, industrial facilities, and any application that requires consistent and accurate power quality data.

### UL Certified

- + Being UL Listed and UL 508A certified ensures AcuPanel 9108X meets the toughest industry safety standards for control panels. Users can trust that the panel adheres to the regulatory requirements, making inspections and approval processes easier. These certifications guarantee reliable protection against electrical shocks, fire hazards, and other environmental elements.

### Self-Powered Panel

- + Designed to simplify installation, the AcuPanel 9108X requires no separate power source, as it can be directly connected in a line-to-neutral configuration. With an integrated grounding setup, it seamlessly integrates into any power system without complex wiring. The self-powered design minimizes installation time, enabling quick deployment, making it an ideal solution for OEM projects that require efficient and streamlined setup.

### Custom OEM Solutions

- + Showcase your logo with custom branding.
- + Customize the panel with specialized OEM components, such as gateways, cellular modems, or power supplies.
- + Customize the panel dimensions to fit your space or equipment requirements.
- + Reach out to our energy metering specialists to create a tailored panel solution for any unique application.

### Revenue Grade Accuracy

- + The AcuPanel 9108X delivers IEC 62053-22 Class 0.1S and ANSI C12.20 Class 0.1 compliant revenue-grade accuracy with the Acuvim 3 advanced power quality analyzer, making the AcuPanel 9108X ideal for tenant billing and energy consumption tracking. The panel provides precise insights into energy consumption, enabling users to enhance energy efficiency, minimize downtime, and reduce waste.

### Clean Wire Management

- + AcuPanel 9108X eliminates the risks of manual wiring errors by featuring factory-assembled, pre-wired components that are thoroughly tested for safety and optimal performance. Colour-coded and clearly labeled, the components simplify future maintenance and reduce the likelihood of wiring mistakes. AcuPanel 9108X not only accelerates installation and deployment, but also ensures dependable long-term performance, making the panel an ideal solution for complex electrical systems.

### NEMA 4X Rated Enclosure

- + The AcuPanel 9108X is built with a durable, NEMA 4X rated polycarbonate enclosure, making it suitable for both indoor and outdoor applications. It provides reliable protection against harsh environmental conditions, including dust, water, and extreme temperatures. This robust design ensures that sensitive metering equipments are protected, delivering long-term reliability and dependable performance.

### Secure Tamper-Proof Solution

- + The AcuPanel 9108X features lockable enclosures and metrology security seals, providing enhanced protection for metering equipment. The secure design ensures data integrity by preventing unauthorized access and tampering, helping to extend the lifespan of critical devices.

## APPLICATIONS

- + OEM
- + Power Distribution
- + SCADA
- + Critical Infrastructure
- + Manufacturing Facilities
- + Telecommunications
- + Transportation Monitoring

# ACUPANEL SPECIFICATIONS

## AcuPanel 9108X



Compatible Meters

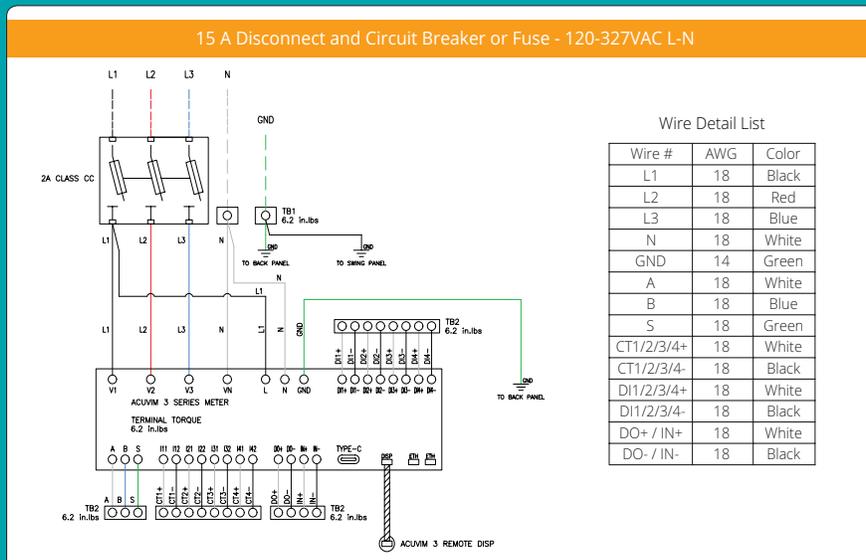


AcuVim 3

Application	Indoor or outdoor installations that require exceptional environmental protection and weather resistance
Safety Certifications	UL508A
NEMA Rating	NEMA 4X
Material	Polycarbonate
Anti-Corrosive	●
Dust Proof	●
Suitable for Indoor Use	●
Suitable for Outdoor Use	●
Pre-Wired	●
Pre-Configured	●

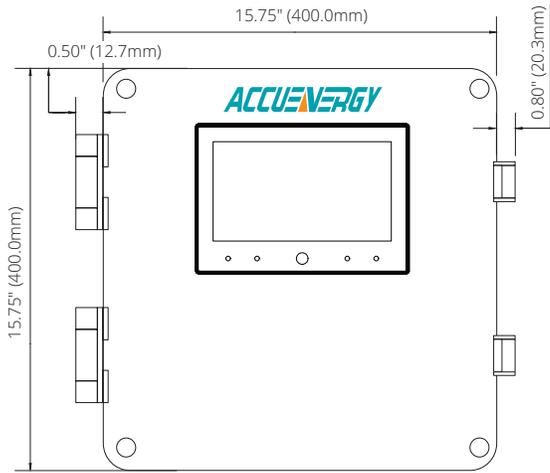
## WIRING DIAGRAMS

### 9108X

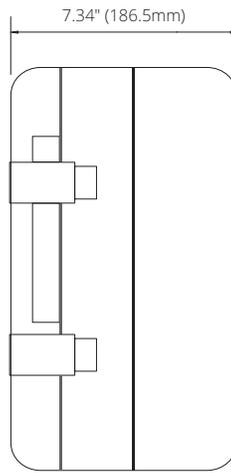


## DIMENSIONS

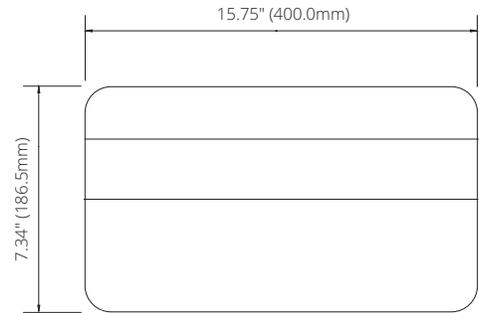
### AcuPanel 9108X Waterproof Polycarbonate Panel



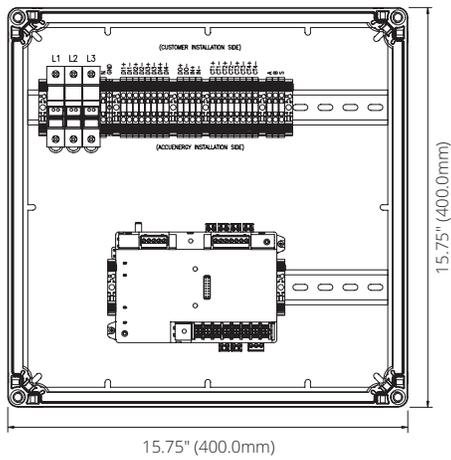
Front View



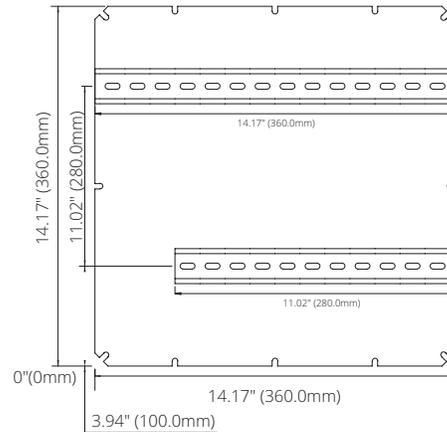
Side View



Bottom View



Front Inside View



**EACH STANDARD,  
PRE-WIRED ENCLOSURE  
INCLUDES:**

- + Terminal blocks for current transformer input
- + Shorting blocks for current transformers
- + Terminal blocks for voltage inputs
- + Three industrial-grade fuses



**ORDERING INFORMATION**

**AcuPanel 9108X Pre-Wired Control Panel**

Enclosure Type	Meter Series	Current Input Option	Power Supply	I/O Module
<b>AcuPanel 9108X:</b> Pre-wired NEMA 4X Enclosure	<b>3:</b> Acuvim 3 Power Quality Meter	<b>5A:</b> 1A or 5A	<b>P1:</b> 100-415V L-N	<b>Blank:</b> None
		<b>mV:</b> 333mV or Accuenergy Rogowski Coil	<b>P2:</b> Auxiliary Powered Using 20-60Vdc	<b>IO1:</b> Additional Module with 6DI, 24Vdc Power Supply for DI, 2RO
			<b>P3:</b> 480V Delta	<b>IO2:</b> Additional Module with 4DI, 2AO, 2RO
			<b>P4:</b> 600V Delta	<b>IO3:</b> Additional Module with 4DI, 2AI, 2RO
<b>Ordering Example:</b> AcuPanel 9108X-3-5A-P1-IO1				



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ISO 9001, 14001 & 45001 Certified