# AcuPanel 9100 Series

## – All-in-one Plug n' play Pre-Wired Panel Enclosure


- Factory Pre-wired and Configured
- Perfect Retrofit Solution
- Save Premium Installation Time
- Avoid All Wiring and Installation Errors

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## DESCRIPTION

Accuenergy's AcuPanel 9100 series pre-wired panel enclosure provides a complete plug n' play energy metering solution. Designed for Acuvim II and Acuvim-L series multifunction power and energy meters, AcuPanel eliminates both time-consuming and costly design and installation. With simple mounting and wiring, you will have a complete metering solution right next to your switchgear.

AcuPanel provides a perfect solution for retrofit projects where metering space is not pre-designed in electrical distribution panel. The factory pre-wired meter and enclosure will greatly save the cost for parts and labor with minimized installation time. Moreover, frustrating wiring errors which lead to serious false data will be eliminated to create a seamless process from installation to power and energy monitoring.

The factory pre-wired meter enclosure comes in two options: NEMA4 (Indoor) steel enclosure and waterproof plastic NEMA 4X (Outdoor). These two options ensure the viable solutions for all installing environment.

Standard pre-wired enclosure includes:

- Terminal blocks for current transformer input
- Shorting block for current transformer
- Terminals blocks for voltage input
- 3 Industrial-grade fuses

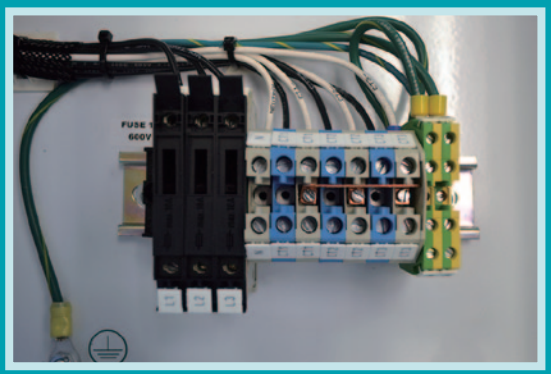
Inside the locking door of the AcuPanel are factory-assembled fuses and terminal blocks clearly labelled for a quick and effortless connection. At the bottom of the AcuPanel sits two pluggable pre-cut holes that allow for wires to be fed through the panel to the circuit blocks without any additional modifications being needed.

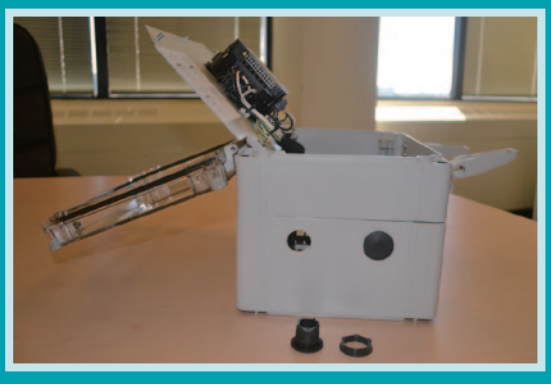
## FEATURES

- NEMA 4 or NEMA 4X rating
- Pre-wired meter
- Pre-mounted and wired parts including fuses, shorting and terminal blocks
- Pluggable pre-cut holes for wires to be fed through
- Simple grounding inside enclosure
- No control transformer needed

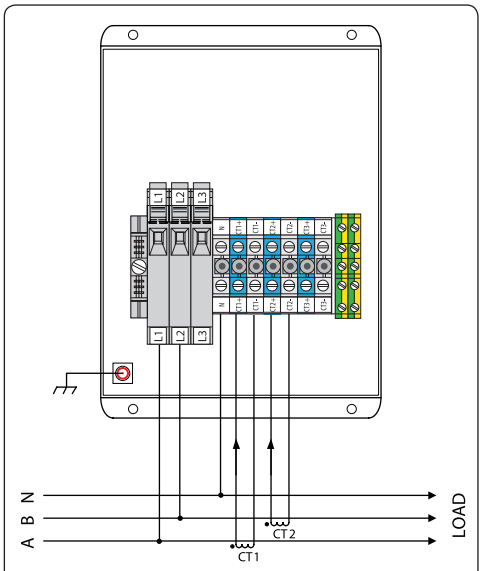
## BENEFITS

- Saves cost on installation and parts
- Save premium time
- Avoids frustrating wiring mistakes
- Clear easy-to-read labels
- Plug n' play usability

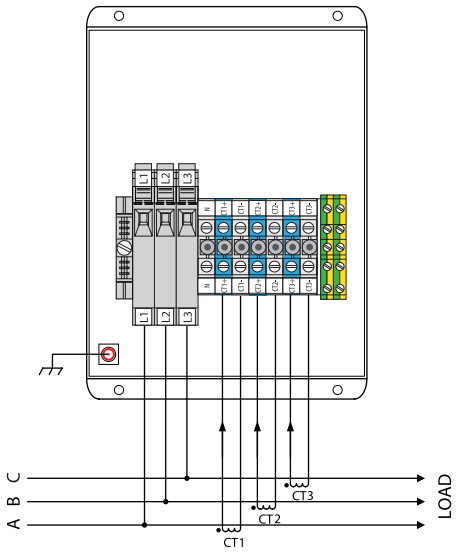




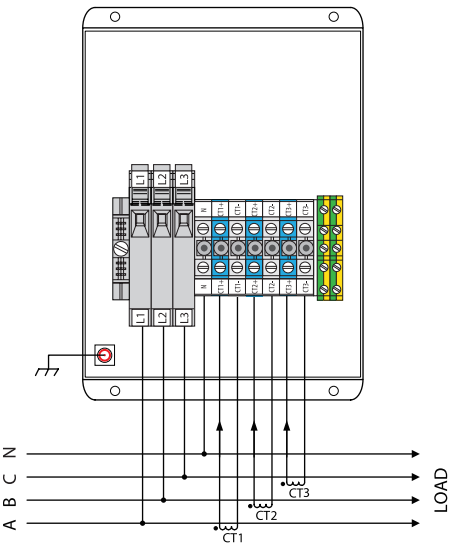
## WIRING DIAGRAMS




Single Phase 3 Line



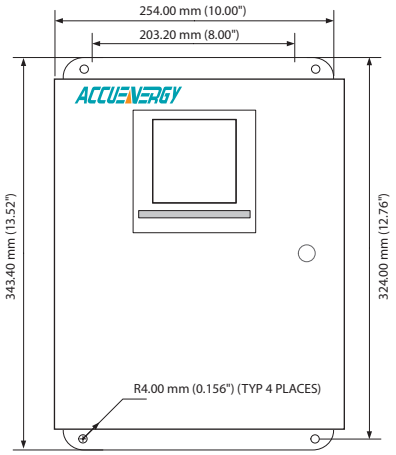

3 Phase 3 Line V<690V (line to line)



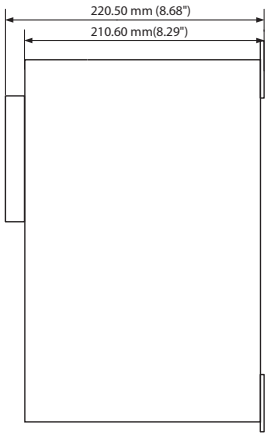

3 Phase 4 Line V<690V (line to line)

## DIMENSIONS

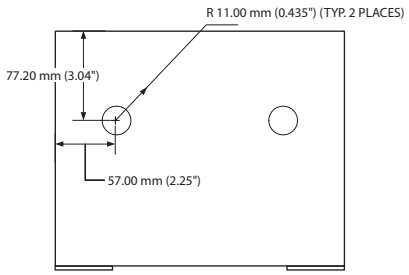
### NEMA4 Steel Panel




FRONT VIEW

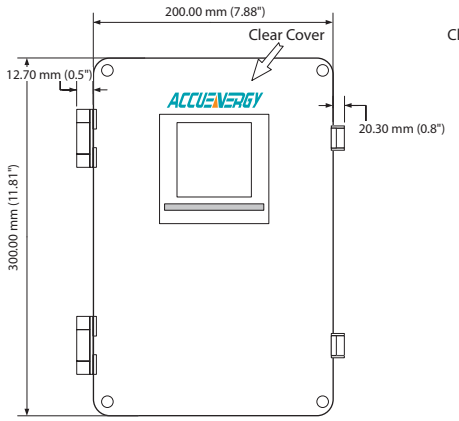



SIDE VIEW

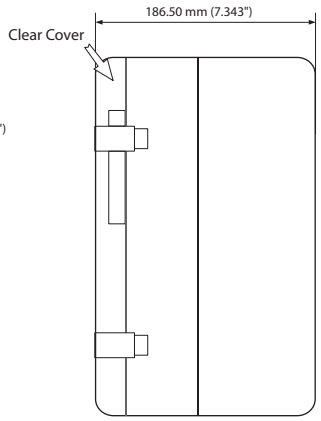



BOTTOM VIEW

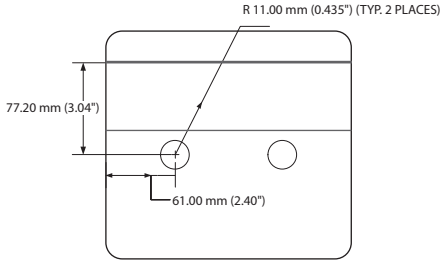
### NEMA4X Waterproof Plastic Panel




FRONT VIEW




SIDE VIEW




BOTTOM VIEW

## ORDERING INFORMATION

### Acuvim II Pre-Wired Panel

| Pre-Wired Panel | Model | Frequency | Current Input | Power Supply | 1st I/O Option* | 2nd IO Option* | 3rd IO Option* |
|---|---|---|---|---|---|---|---|
| Ordering Number | - | - | - | - | - | - | - |
| Ordering Example | AcuPanel9104X - | IIR - | 60 - | 5A - | P1 - | NET - | IO1 - | IO3 |
| | **AcuPanel9014:** NEMA4 Indoor Panel | **II:** Revenue Grade Multifucntion Power Meter | **50:** 50Hz | **5A:** 5A Nominal Current Input | **P1:** 100-415Vac, 100-300Vdc | **0:** None | **0:** None | **0:** None |
| | **AcuPanel9104X:** NEMA4X WaterProof | **IIR:** Acuvim II with 4MB of Datalogging Memory | **60:** 60Hz | **1A:** 1A Nominal Current Input | **P2:** 20-60Vdc | **NET:** Modbus-TCP/IP, HTTP, SMTP, SNMP, SNTP | **IO1:** 6DI, 2RO, 1 DI Power Supply | **IO1:** 6DI, 2RO, 1 DI Power Supply |
| | | **IIE:** Acuvim IIR with 4 tariff TOU | | | P3: 480Vac | **PROFI:** Profibus-DP | **IO2:** 4DI, 2AO, 2DO | **IO2:** 4DI, 2AO, 2DO |
| | | **IIW:** 8MB of Memory and Waveform Recorder | | | P4: 600Vac | **BIP:** BACnet IP (Ethernet) | **IO3:** 4DI, 2RO, 2AI | **IO3:** 4DI, 2RO, 2AI |
| | | | | | | **BMS:** BACnet MS/TP (Serial) | | |
| | | | | | | **RS485:** Second RS485 Port | | |
| | | | | | | **IO1:** 6DI, 2RO, 1 DI Power Supply | | |
| | | | | | | **IO2:** 4DI, 2AO, 2DO | | |
| | | | | | | **IO3:** 4DI, 2RO, 2AI | | |

*Note: No more than 2 of the same I/O modules may be attached to the meter (example: Two AXM-IO2).
The same two IO modules must be a different component number.

### Acuvim-L Pre-Wired Panel

| Pre-Wired Panel | Model | Frequency | Current Input | Power Supply | I/O Option* |
|---|---|---|---|---|---|
| Ordering Number | - | - | - | - | - |
| Ordering Example | AcuPanel9104 - | EL - | 50 - | 1A - | P2 - | X4 |
| | **AcuPanel9014:** NEMA4 Indoor Panel | **AL:** Digital Panel Meter | **50:** 50Hz | **5A:** 5A Nominal Current Input | **P1:** 100-415Vac, 100-300Vdc | **0:** None |
| | **AcuPanel9104X:** NEMA4X WaterProof | **BL:** AL + 2 Digital Output(Pulse/Alarm) | **60:** 60Hz | **1A:** 1A Nominal Current Input | **P2:** 20-60Vdc | **X1:** 4DI + 2DO |
| | | **CL:** AL + Modbus-RTU | | | P3: 480Vac | **X2:** 4DI + 2DO + second RS485 |
| | | **DL:** CL + IO Option | | | P4: 600Vac | **X3:** Profibus-DP |
| | | **EL:** DL + TOU | | | | **X4:** 4DI + 2DO + Profibus-DP |
| | | **KL:** kW & kWh Meter | | | | |

*Note: Extended Modules only supported by the DL and EL Model.

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