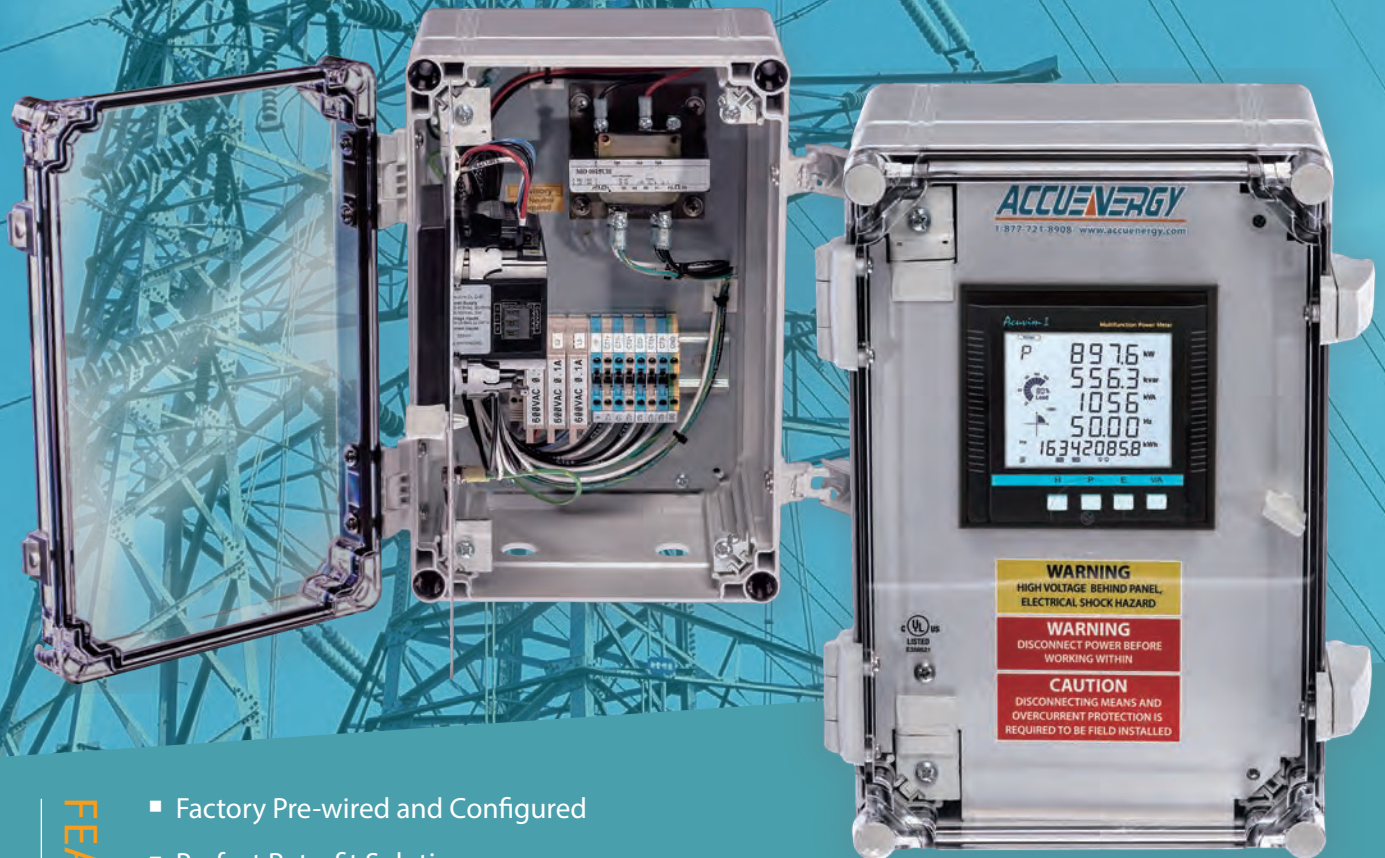


AcuPanel 9100 Series

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



FEATURES

- 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 labeled 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.

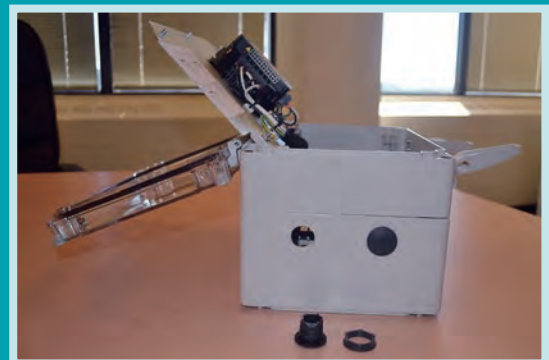
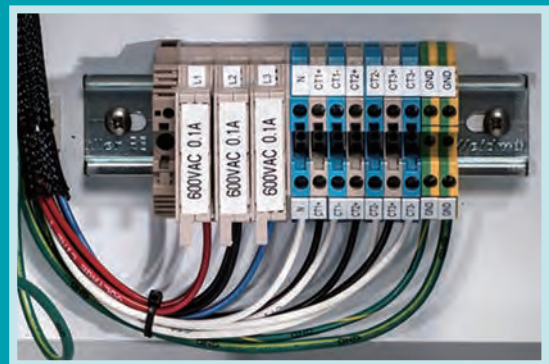


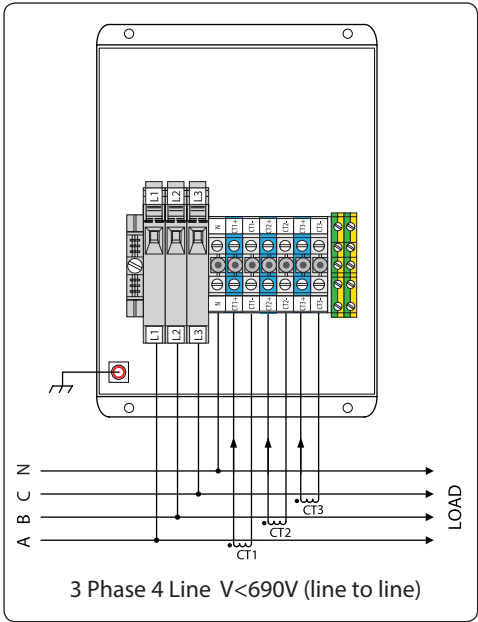
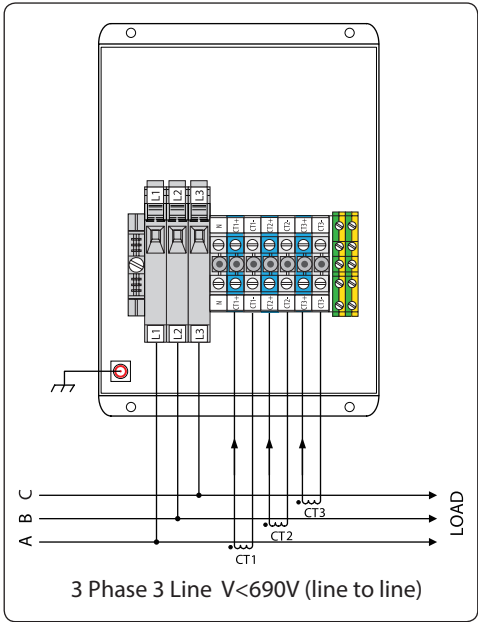
FEATURES

- 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



[illegible]

NEMA4 Steel Panel

The technical drawings illustrate the dimensions of the NEMA4 Steel Panel in three views:

- FRONT VIEW:** Shows a square panel with a width of 254.00 mm (10.00") and a height of 343.40 mm (13.52"). The mounting flange has a width of 203.20 mm (8.00"). The panel features a central square cutout and a circular indicator light. The corner radius is R4.00 mm (0.156") (TYP 4 PLACES).
- SIDE VIEW:** Shows the panel's profile with a total depth of 220.50 mm (8.68"). The mounting flange has a thickness of 210.60 mm (8.29").
- BOTTOM VIEW:** Shows the panel's base with a width of 254.00 mm (10.00") and a height of 343.40 mm (13.52"). The corner radius is R11.00 mm (0.435") (TYP. 2 PLACES). The mounting flange has a width of 77.20 mm (3.04") and a height of 57.00 mm (2.25").

NEMA4X Waterproof Plastic Panel

The technical drawings illustrate the dimensions of the NEMA4X Waterproof Plastic Panel in three views:

- FRONT VIEW:** Shows a square panel with a width of 200.00 mm (7.88") and a height of 300.00 mm (11.81"). It features a central rectangular cutout with a width of 12.70 mm (0.5"). The cutout is labeled "ACCUENERGY". The panel is labeled "Clear Cover". The mounting holes are spaced 20.30 mm (0.8") from the edges.
- SIDE VIEW:** Shows the panel's profile with a width of 186.50 mm (7.343"). It features a "Clear Cover" on the left side.
- BOTTOM VIEW:** Shows the panel's base with a width of 186.50 mm (7.343") and a height of 77.20 mm (3.04"). It features a central rectangular cutout with a width of 61.00 mm (2.40"). The panel is labeled "R 11.00 mm (0.435") (TYP. 2 PLACES)".

ORDERING INFORMATION

Acuvim II Pre-Wired Panel

| | Pre-Wired Panel | Model | Current Input | Power Supply | 1st I/O Option* | 2nd I/O Option* | 3rd I/O Option* |
|------------------|---|---|---|--------------------------------------|---|--|--|
| Ordering Number | - | - | - | - | - | - | - |
| Ordering Example | AcuPanel9104X | - IIR | - 5A | - P1 | - WEB-PUSH | - IO1 | - IO3 |
| | AcuPanel9104: NEMA4 or NEMA3 Indoor Steel Panel | II: Revenue Grade Multifunction Power Meter | 5A: 5A or 1A Nominal Current Input | P1: 100-415Vac, 100-300Vdc | 0: None | 0: None | 0: None |
| | AcuPanel9104X: NEMA4X Indoor and Outdoor Waterproof Polycarbonate Panel | IIR: Acuvim II with 4MB of Datalogging Memory | RCT: Rogowski Coil CT Input | P2: 20-60Vdc | WEB-PUSH: Modbus-TCP/IP, HTTPs Webserver, HTTP/HTTPs Post, FTP Post, SMTP, SNMP | IO1: 6DI, 2RO, 1 DI Power Supply | IO1: 6DI, 2RO, 1 DI Power Supply |
| | | IIE: Acuvim IIR with 4 tariff TOU | 333mV: 333mV Nominal CT Input | P3: 480 Vac | WIFI: All functions from WEB-PUSH plus additional WiFi communication channel | IO2: 4DI, 2AO, 2 DO | IO2: 4DI, 2AO, 2 DO |
| | | IIW: 8MB of Memory and Waveform Recorder | mA: 80mA, 100mA or 200mA Nominal CT Input | P4: 600Vac | PROFI: Profibus-DP | IO3: 4DI, 2RO, 2AI | IO3: 4DI, 2RO, 2AI |
| | | | | | BIP: BACnet IP (Ethernet) | | |
| | | | | | 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 | Current Input | Power Supply | 1st I/O Option* |
|------------------|---|---|--|--------------------------------------|--|
| Ordering Number | - | - | - | - | - |
| Ordering Example | AcuPanel9104 | - EL | - 5A | - P2 | - X4 |
| | AcuPanel9104: NEMA4 or NEMA3 Indoor Steel Panel | AL: Digital Panel Meter | 5A: 5A or 1A Nominal Current Input | P1: 100-415Vac, 100-300Vdc | 0: None |
| | AcuPanel9104X: NEMA4X Indoor and Outdoor Waterproof Polycarbonate Panel | BL: AL + 2 Digital Output (Pulse/Alarm) | 333mV: 333mV Nominal CT Input | P2: 20-60Vdc | X1: 4DI + 2DO |
| | | CL: AL + Modbus-RTU | | P3: 480 Vac | 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.

