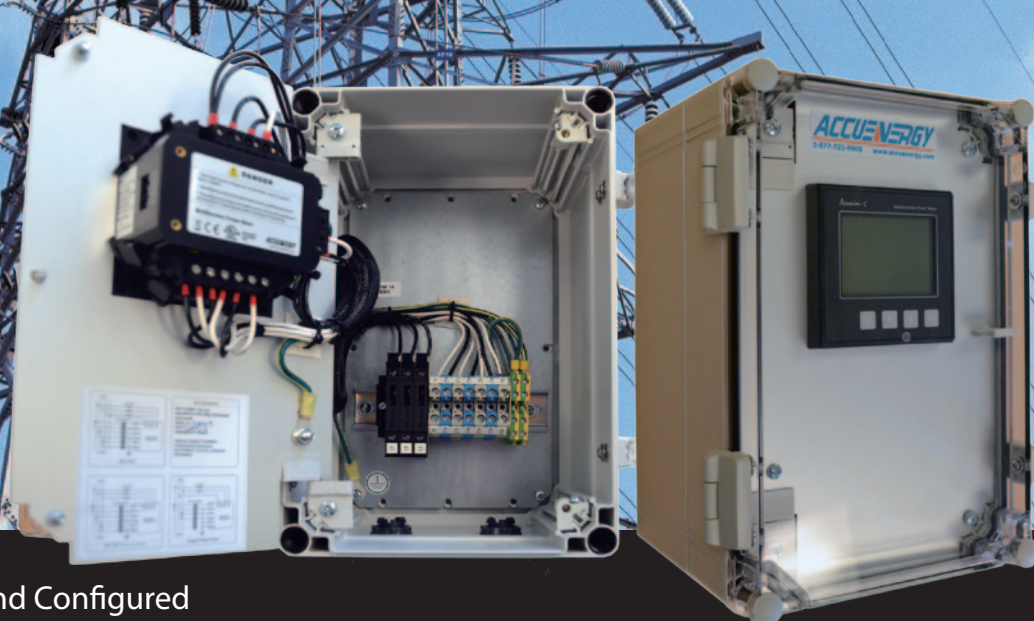


AcuPanel 9100 Series

– 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



ISO9001 Certified

ACCUEVERGY

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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.

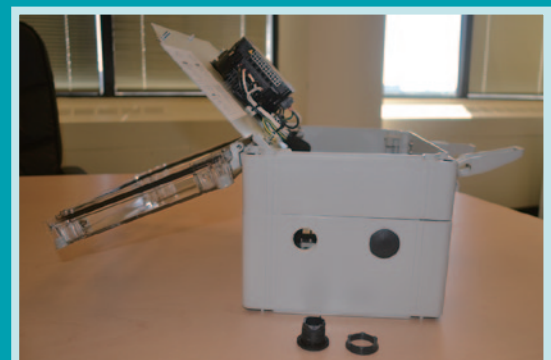


FEATURES

- 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

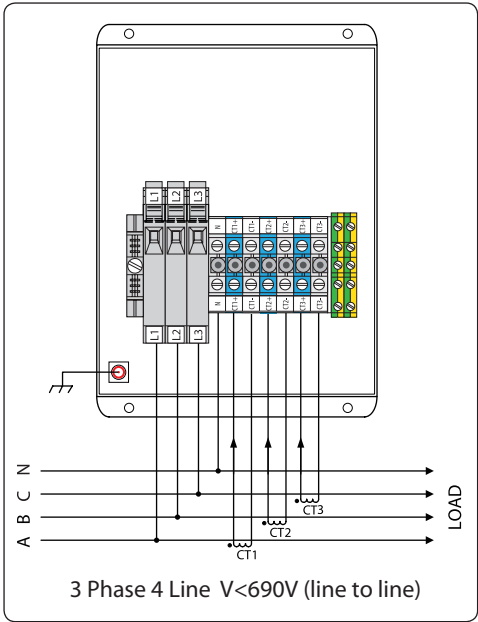
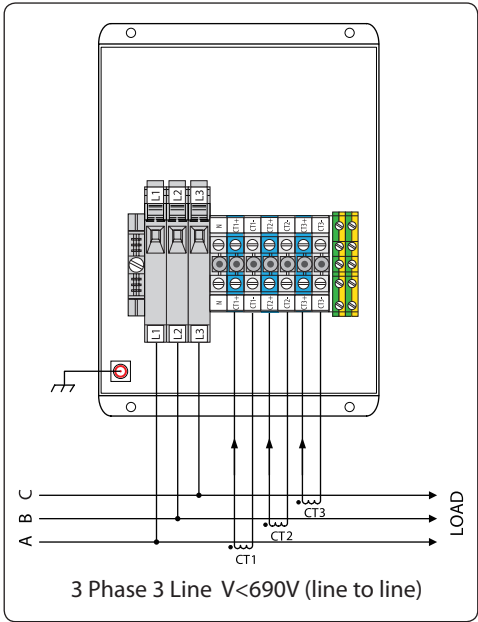


This diagram illustrates the wiring for a 'Single Phase 3 Line' connection. It shows a 3-phase 4-wire meter with terminals labeled 1 through 15. The meter is connected to a three-phase supply (A, B, C) and a neutral line (N). The connections are as follows:

- Terminal 1 (Line 1) is connected to phase A.
- Terminal 2 (Line 2) is connected to phase B.
- Terminal 3 (Line 3) is connected to phase C.
- Terminal 4 (Neutral) is connected to the neutral line (N).
- Terminal 5 (Line 1) is connected to phase A.
- Terminal 6 (Line 2) is connected to phase B.
- Terminal 7 (Line 3) is connected to phase C.
- Terminal 8 (Neutral) is connected to the neutral line (N).
- Terminal 9 (Line 1) is connected to phase A.
- Terminal 10 (Line 2) is connected to phase B.
- Terminal 11 (Line 3) is connected to phase C.
- Terminal 12 (Neutral) is connected to the neutral line (N).
- Terminal 13 (Line 1) is connected to phase A.
- Terminal 14 (Line 2) is connected to phase B.
- Terminal 15 (Line 3) is connected to phase C.

The meter is connected to a three-phase supply (A, B, C) and a neutral line (N). The connections are as follows:

- Terminal 1 (Line 1) is connected to phase A.
- Terminal 2 (Line 2) is connected to phase B.
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- Terminal 5 (Line 1) is connected to phase A.
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- Terminal 7 (Line 3) is connected to phase C.
- Terminal 8 (Neutral) is connected to the neutral line (N).
- Terminal 9 (Line 1) is connected to phase A.
- Terminal 10 (Line 2) is connected to phase B.
- Terminal 11 (Line 3) is connected to phase C.
- Terminal 12 (Neutral) is connected to the neutral line (N).
- Terminal 13 (Line 1) is connected to phase A.
- Terminal 14 (Line 2) is connected to phase B.
- Terminal 15 (Line 3) is connected to phase C.



NEMA4 Steel Panel

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

- FRONT VIEW:** Shows the panel's overall dimensions: 254.00 mm (10.00") width and 343.40 mm (13.52") height. The mounting flange has a width of 203.20 mm (8.00"). The central display area is 324.00 mm (12.76") high. The panel features the **ACTUENERGY** logo and a display. Corner radii are specified as R4.00 mm (0.156") (TYP. 4 PLACES).
- SIDE VIEW:** Shows the panel's depth dimensions: 220.50 mm (8.68") for the main body and 210.60 mm (8.29") for the mounting flange.
- BOTTOM VIEW:** Shows the panel's base dimensions: 77.20 mm (3.04") for the mounting flange and 57.00 mm (2.25") for the main body. Corner radii are specified as R 11.00 mm (0.435") (TYP. 2 PLACES).

NEMA4X Waterproof Plastic Panel

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

- FRONT VIEW:** Shows the overall dimensions of 200.00 mm (7.88") width and 300.00 mm (11.81") height. It includes a central display area with the 'ACCUENERGY' logo, a 'Clear Cover' label, and mounting tabs with dimensions of 12.70 mm (0.5") and 20.30 mm (0.8").
- SIDE VIEW:** Shows the side profile with a width of 186.50 mm (7.343") and a 'Clear Cover' label.
- BOTTOM VIEW:** Shows the bottom profile with a width of 186.50 mm (7.343") and a height of 77.20 mm (3.04"). It includes a mounting hole with a diameter of 61.00 mm (2.40") and a radius of R 11.00 mm (0.435") (TYP. 2 PLACES).

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 Multifunction 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.

