

Features

- Supports bidirectional kWh metering
- 8 Three Phase Circuits or 24 Single Phase Circuits
- True RMS Power Measurements
- Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W
- Supports CTs with 333 mV voltage output
- Voltage Measurements Up to 500 V
- Total Harmonic Distortion (THD)
- Support 2 Power Relay Output (Form A)
- Compliant with IEC 61010-1 and EN 61010-1 standards

Introduction

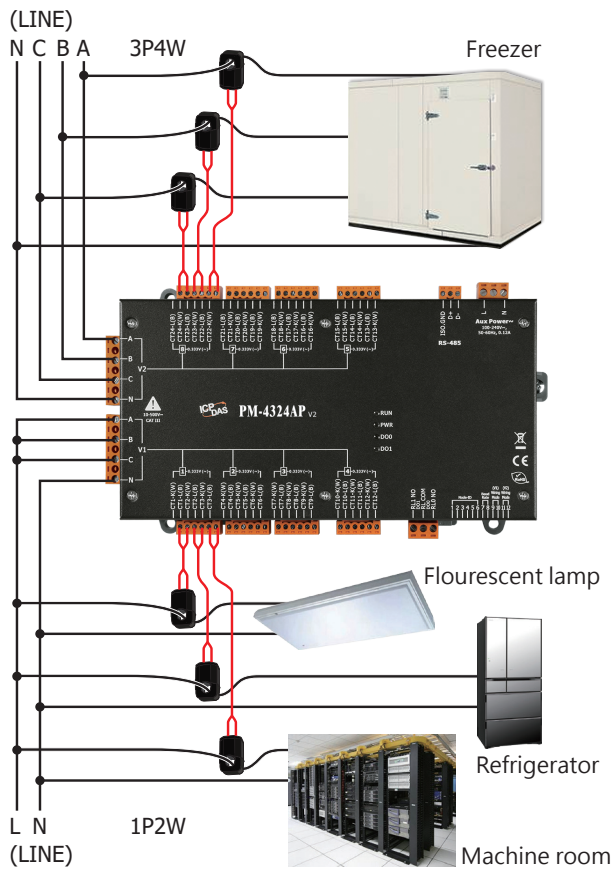
The PM-4324P series from ICP DAS is a multi-circuit smart power meter capable of monitoring up to 8 three-phase circuits or 24 single-phase circuits, or any combination of both. It measures up to 24 current inputs via external current transformers (CTs), offering flexibility ideal for multi-tenant facilities such as residential complexes, office buildings, and shopping malls. With its compact form factor, the PM-4324P can be conveniently installed inside existing panelboards or flush-mounted nearby, avoiding the need for costly retrofitting or allocating extra installation space. The PM-4324AP is equipped with two independent main voltage inputs, allowing it to monitor two different power systems separately. Alternatively, the two inputs can be connected in parallel and used as a single main circuit input, providing functionality equivalent to the PM-4324P. This design offers greater flexibility and adaptability for various applications. Both PM-4324P and PM-4324AP do not include CTs by default; users can select compatible CTs with a 333 mV voltage output. Rogowski coils are not supported.

Specifications

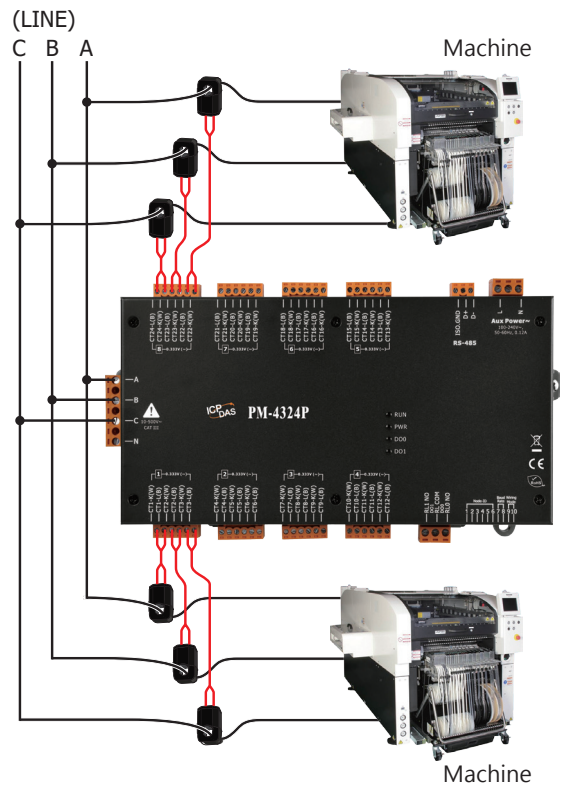
Models	PM-4324P/PM-4324AP	PM-4324P-MTCP/ PM-4324AP-MTCP	PM-4324AP-EIP	PM-4324AP-CPS
AC Power Measurement				
Wiring	3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT			
Loops	3-phase: 8; 1-phase: 24 @ 1P2W-1CT, 8 @ 1P3W-2CT			
Measurement Voltage	10 to 500 V			
Measurement Current	Supports 333 mV output CTs; actual current range depends on CT's primary rating			
Measurement Frequency	50/60 Hz			
W Accuracy	Accuracy is approximately 2–5% (PF = 1), depending on the CT used. The CT ratio must be set correctly			
Power Parameter Measurement	True RMS voltage (V _{rms}), True RMS current (I _{rms}), Active Power (kW), Active Energy (kWh), Apparent Power (kVA), Apparent Energy (kVAh), Reactive Power (kVAR), Reactive Energy (kVARh), Power Factor (PF), Frequency			
Data Update Rate	1 Second			
Communication				
Interface	RS-485	Ethernet		CAN Bus
Protocol	Modbus-RTU	Modbus TCP	EtherNet/IP	CANopen
Baud Rate	9600, 19200 (default), 38400, 115200; DIP Switch Selectable	-		125 k (default), 250 k, 500 k, 1 M; DIP Switch Selectable
Data Format	N,8,1; N,8,2; E,8,1; E,8,2; O,8,1; O,8,2	-		-
Isolation	3000 VDC	-		3000 VDC
Alarm Output				
Power Relay	Form A (Normal Open) x 2; Relay Contact Voltage Range: 5 A @ 250 VAC (47 to 63 Hz), 5 A @ 30 VDC			
Power				
Input Range	+85 to +264 VAC			
Power Consumption	6 W			
Environment				
Temperature	Operating Temperature: -20 to +70°C / Storage Temperature: -25 to +80°C			
Ambient Relative Humidity	10% to 90% RH, Non-condensing			

Wire Connections

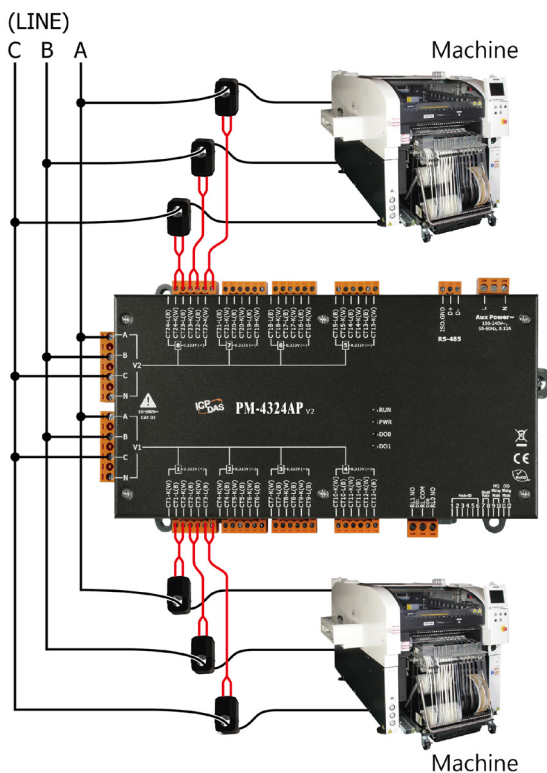
PM-4324AP with Dual Main Voltage Inputs (3P4W & 1P2W Systems)



PM-4324P with a Single Main Voltage Input (3P3W System)

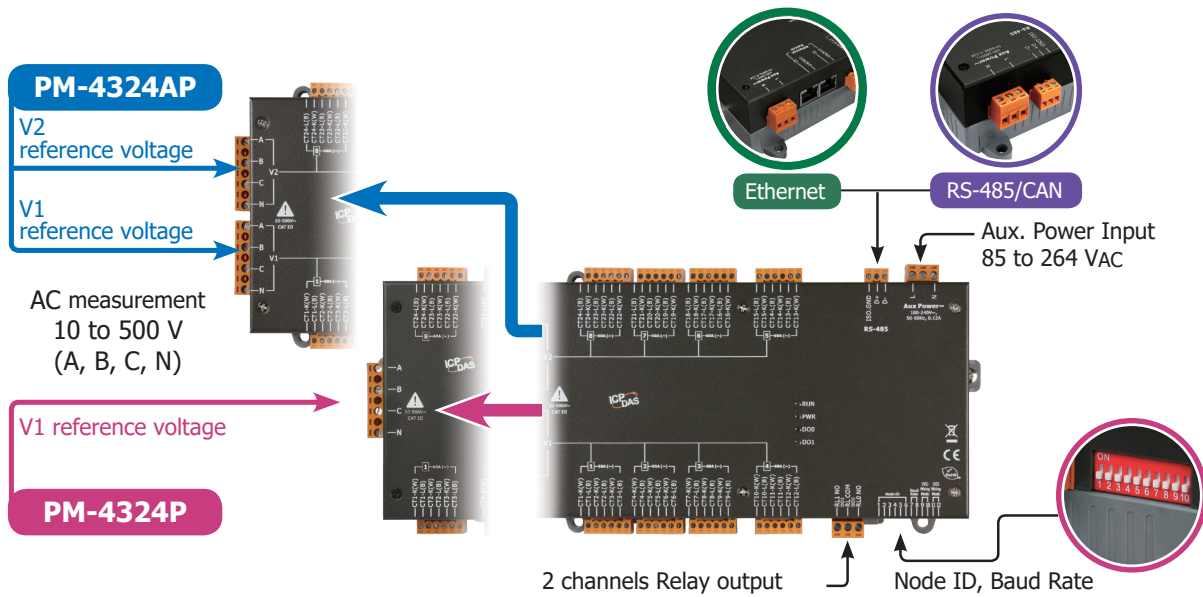


PM-4324AP with a Single Main Voltage Input (3P3W System)



◀ The voltage ratio, display settings, and wiring configuration of V1 and V2 must be identical.

Appearance



Ordering Information

RS-485 Interface	
PM-4324P CR	Modbus RTU, multi-circuit power meter, supports 333 mV CTs, not for Rogowski coils (RoHS)
PM-4324AP CR	Modbus RTU, multi-circuit power meter with dual main circuit inputs, supports 333 mV CTs, not for Rogowski coils (RoHS)
Ethernet Interface (Modbus TCP)	
PM-4324P-MTCP CR	Modbus TCP, multi-circuit power meter, supports 333 mV CTs, not for Rogowski coils (RoHS)
PM-4324AP-MTCP CR	Modbus TCP, multi-circuit power meter with dual main circuit inputs, supports 333 mV CTs, not for Rogowski coils (RoHS)
Ethernet Interface (EtherNet/IP)	
PM-4324AP-EIP CR	EtherNet/IP, multi-circuit power meter with dual main circuit inputs, supports 333 mV CTs, not for Rogowski coils (RoHS)
CAN bus Interface	
PM-4324AP-CPS CR	CANopen, multi-circuit power meter with dual main circuit inputs, supports 333 mV CTs, not for Rogowski coils (RoHS)

Optional

333mV Split-Core CTs	
CA-SCT10P-005A-L040-3P	Φ10 mm split-core CT (3 pcs), 0.05–5 A, ±0.5% accuracy, 4 m cable, 50/60 Hz (RoHS)
CA-SCT10P-60A-L040-3P	Φ10 mm split-core CT (3 pcs), 0.05–60 A, ±1% accuracy, 4 m cable, 50/60 Hz (RoHS)
CA-SCT16P-100A-L040-3P	Φ16 mm split-core CT (3 pcs), 0.1–100 A, ±2% accuracy, 4 m cable, 50/60 Hz (RoHS)
CA-SCT24P-200A-L040-3P	Φ24 mm split-core CT (3 pcs), 0.15–200 A, ±1% accuracy, 4 m cable, 50/60 Hz (RoHS)
CA-SCT36P-300A-L040-3P	Φ36 mm split-core CT (3 pcs), 0.3–300 A, ±0.5% accuracy, 4 m cable, 50/60 Hz (RoHS)
CA-SCT36P-400A-L040-3P	Φ36 mm split-core CT (3 pcs), 0.3–400 A, ±0.5% accuracy, 4 m cable, 50/60 Hz (RoHS)

