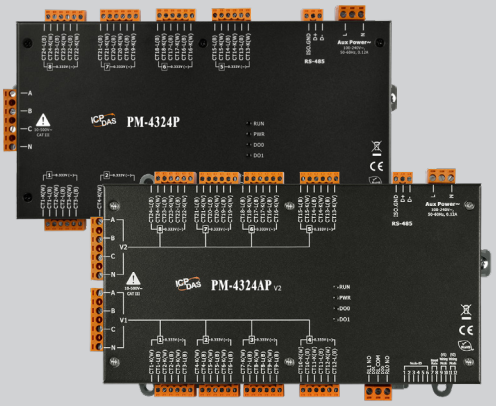


PM-4324P/-MTCP
PM-4324AP/-MTCP/-CPS/-EIP
Multi-circuit Smart Power Meter

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.

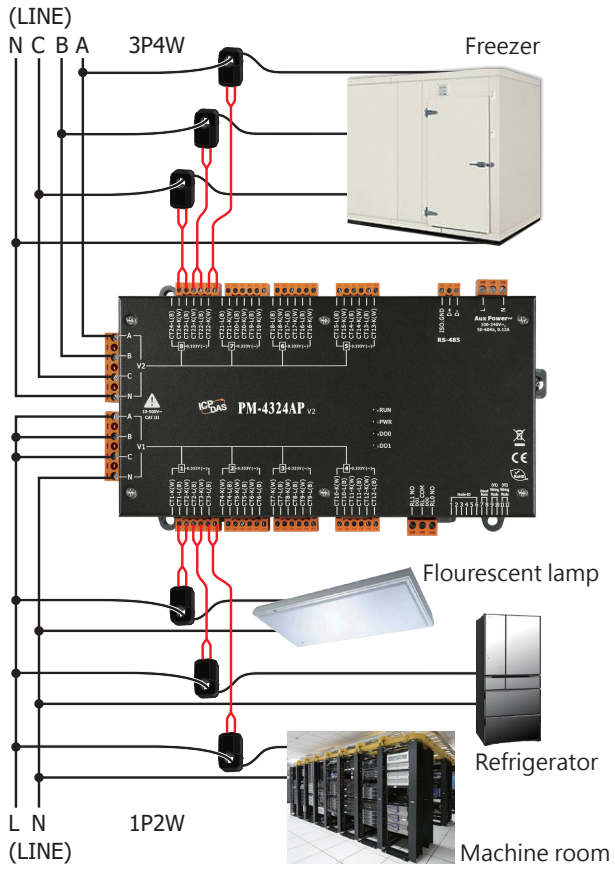
Specifications

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 (Vrms), True RMS current (Irms), 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 V_{DC}	-		3000 V_{DC}
Alarm Output				
Power Relay	Form A (Normal Open) x 2; Relay Contact Voltage Range: 5 A @ 250 V_{AC} (47 to 63 Hz), 5 A @ 30 V_{DC}			
Power				
Input Range	+85 to +264 V_{AC}			
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			

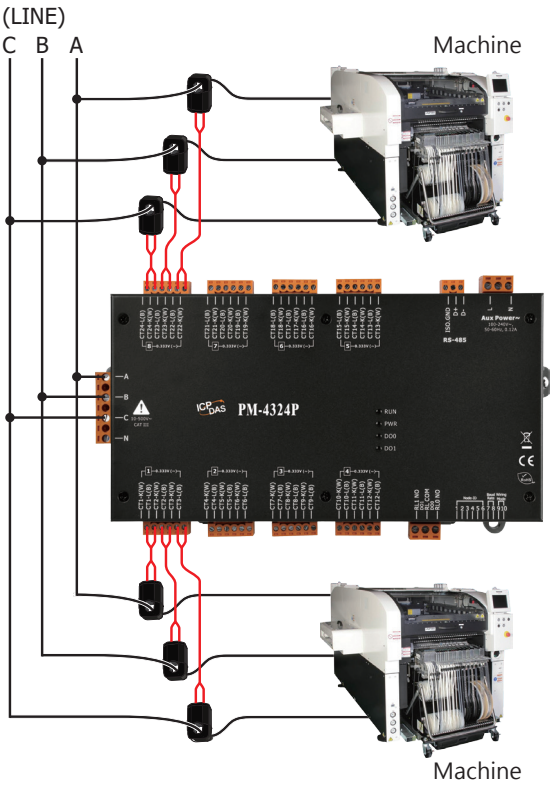
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Wire Connections

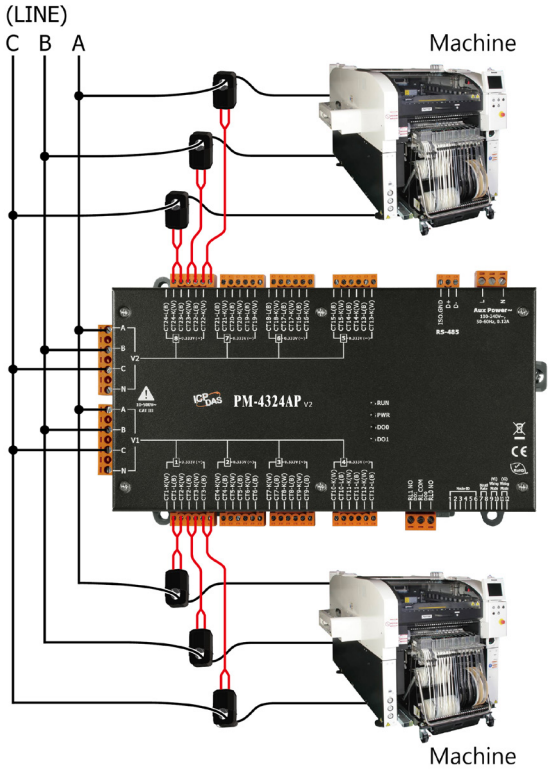
PM-4324AP with Dual Main Voltage Inputs (3P4W & 1P2W Systems)



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



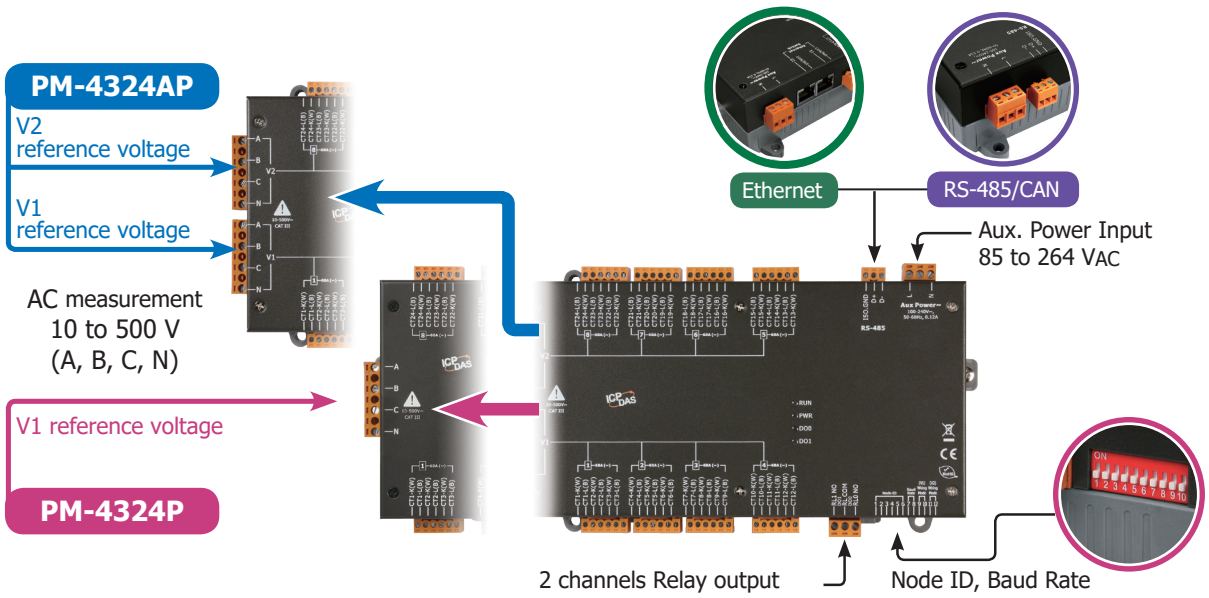
PM-4324AP with a Single Main Voltage Input (3P3W System)



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

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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)	

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