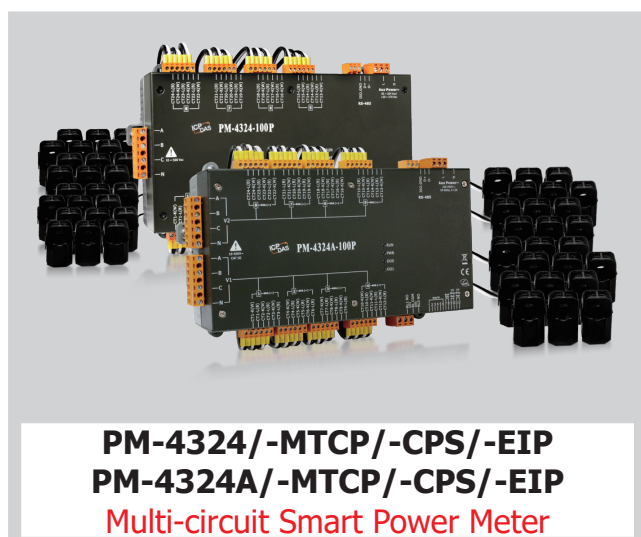




Features

- Bi-directional Energy
- 8 Three Phase Circuits or 24 Single Phase Circuits
- True RMS Power Measurements
- Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W
- Current Measurements Up to 400 A
- Voltage Measurements Up to 500 V
- Easy install with split core CT
- W Accuracy Better than 0.5% (PF=1)
- Total Harmonic Distortion (THD)
- Support 2 Power Relay Output (Form A)
- Compliant with IEC 61010-1 and EN 61010-1 standards



Introduction

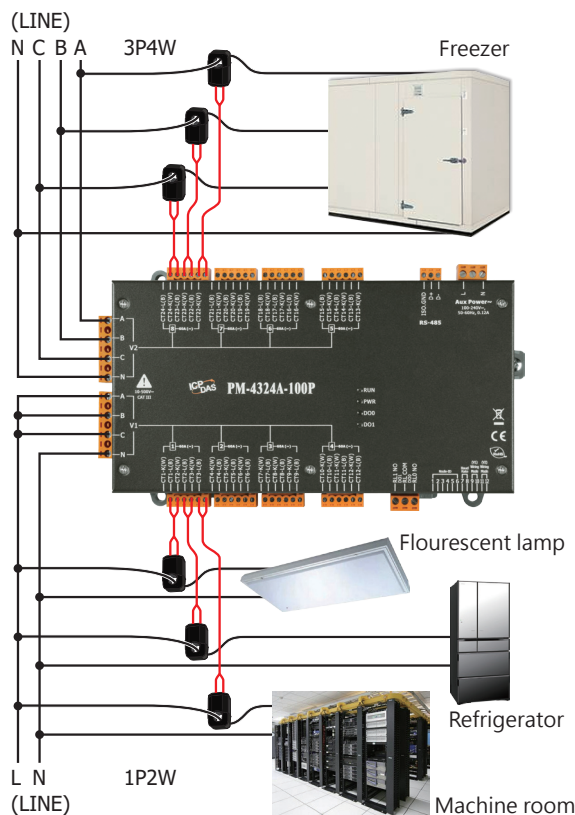
The PM-4324 is a multi-circuit smart power meter capable of monitoring up to 8 three-phase circuits or 24 single-phase circuits, with flexible combinations supported. By connecting external current transformers (CTs), the PM-4324 can measure up to 24 current channels, making it particularly suitable for multi-tenant buildings such as residential complexes, office towers, and shopping centers. Its compact size allows for easy installation inside existing panelboards or nearby, eliminating the need for costly retrofits or additional installation space. The PM-4324A offers the same features as the PM-4324, with added flexibility. It supports parallel connection of two input sets, allowing them to be combined into a single main circuit configuration, enhancing adaptability for various applications.

Specifications

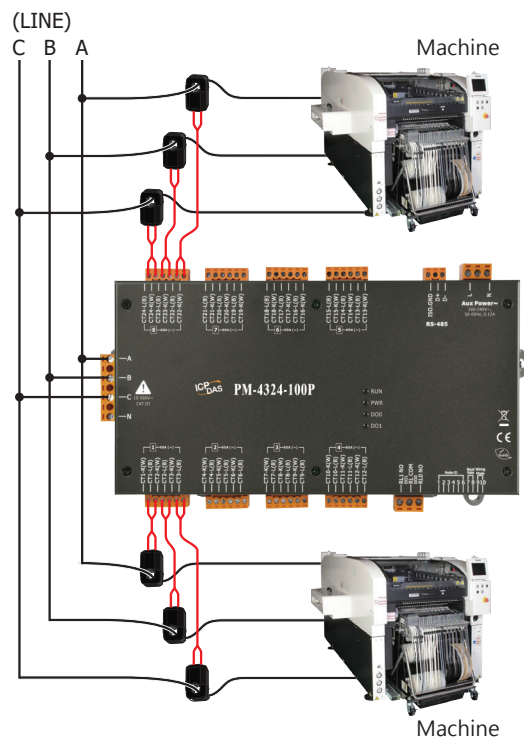
Models	PM-4324/PM-4324A	PM-4324-MTCP/ PM-4324A-MTCP	PM-4324A-EIP	PM-4324A-CPS
AC Power Measurement				
Wiring	3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT			
Loops	3-phase: 8; 1-phase: 24 @ 1P2W-1CT, 8 @ 1P3W-2CT			
Measurement Voltage	10 to 500 V			
Measurement Current	-100P: CTØ10 mm (0.05 A ~ 60 A), -160P: CTØ16 mm (0.1 A ~ 100 A), -240P: CTØ24 mm (0.15 A ~ 200 A) -360P: CTØ36 mm (0.3 A ~ 300 A), -400P: CTØ36 mm (0.3 A ~ 400 A)			
Measurement Frequency	50/60 Hz			
W Accuracy	Better than 0.5% (PF=1)			
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 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			
Mechanical				
Dimensions / Casing	237 mm x 52 mm x 134 mm (W x L x H) / Plastic			
Module Installation	DIN-Rail Mounting			
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

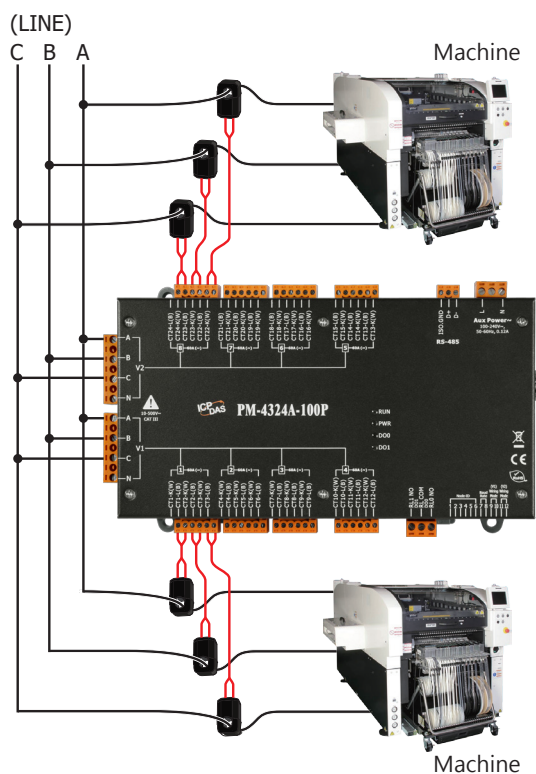
PM-4324A with Dual Main Voltage Inputs (3P4W & 1P2W Systems)



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

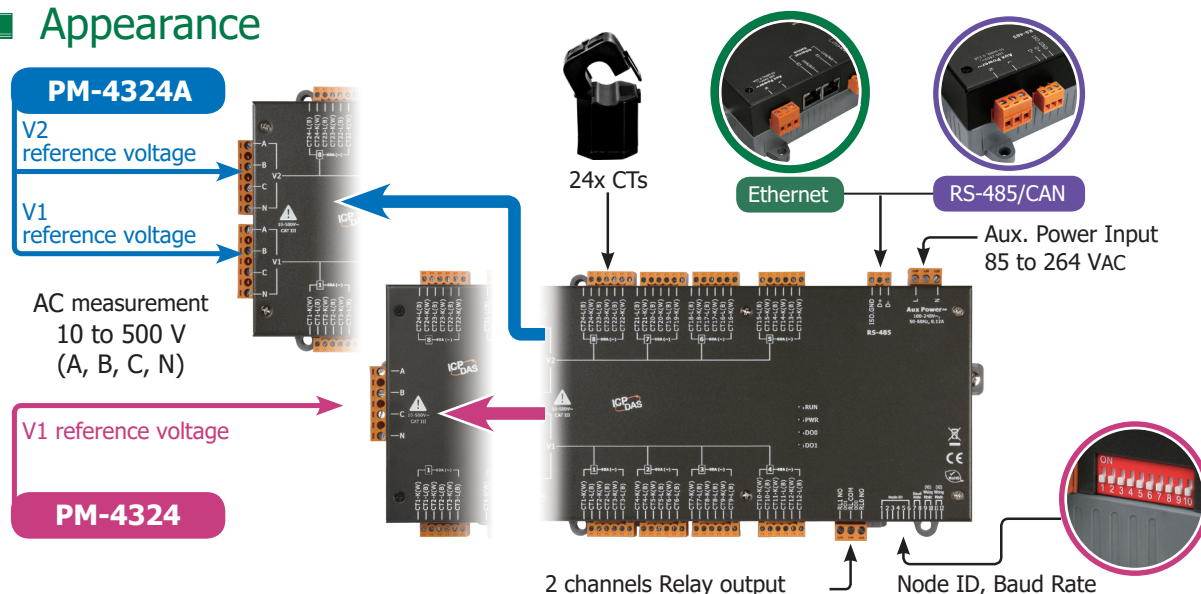


PM-4324A with a Single Main Voltage Input (3P3W System)



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

Appearance



Ordering Information

RS-485 Interface	
PM-4324-100P CR	Modbus RTU, Multi-Circuit Power Meter; includes 60A CT (Ø10 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-160P CR	Modbus RTU, Multi-Circuit Power Meter; includes 100A CT (Ø16 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-240P CR	Modbus RTU, Multi-Circuit Power Meter; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-360P CR	Modbus RTU, Multi-Circuit Power Meter; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-400P CR	Modbus RTU, Multi-Circuit Power Meter; includes 400A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-100P CR	Modbus RTU, Multi-Circuit Power Meter with dual main circuit inputs; includes 60A CT (Ø10 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-160P CR	Modbus RTU, Multi-Circuit Power Meter with dual main circuit inputs; includes 100A CT (Ø16 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-240P CR	Modbus RTU, Multi-Circuit Power Meter with dual main circuit inputs; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-360P CR	Modbus RTU, Multi-Circuit Power Meter with dual main circuit inputs; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-400P CR	Modbus RTU, Multi-Circuit Power Meter with dual main circuit inputs; includes 400A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)

Ethernet Interface (Modbus TCP)	
PM-4324-100P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter; includes 60A CT (Ø10 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-160P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter; includes 100A CT (Ø16 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-240P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324-360P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
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PM-4324A-240P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter with dual main circuit inputs; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-360P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter with dual main circuit inputs; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-400P-MTCP CR	Modbus TCP, Multi-Circuit Power Meter with dual main circuit inputs; includes 400A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)

Ethernet Interface (EtherNet/IP)	
PM-4324A-100P-EIP CR	EtherNet/IP, Multi-Circuit Power Meter with dual main circuit inputs; includes 60A CT (Ø10 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-160P-EIP CR	EtherNet/IP, Multi-Circuit Power Meter with dual main circuit inputs; includes 100A CT (Ø16 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-240P-EIP CR	EtherNet/IP, Multi-Circuit Power Meter with dual main circuit inputs; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-360P-EIP CR	EtherNet/IP, Multi-Circuit Power Meter with dual main circuit inputs; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-400P-EIP CR	EtherNet/IP, Multi-Circuit Power Meter with dual main circuit inputs; includes 400A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)

CAN bus Interface	
PM-4324A-100P-CPS CR	CANopen, Multi-Circuit Power Meter with dual main circuit inputs; includes 60A CT (Ø10 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-160P-CPS CR	CANopen, Multi-Circuit Power Meter with dual main circuit inputs; includes 100A CT (Ø16 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-240P-CPS CR	CANopen, Multi-Circuit Power Meter with dual main circuit inputs; includes 200A CT (Ø24 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-360P-CPS CR	CANopen, Multi-Circuit Power Meter with dual main circuit inputs; includes 300A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)
PM-4324A-400P-CPS CR	CANopen, Multi-Circuit Power Meter with dual main circuit inputs; includes 400A CT (Ø36 mm; wire lead 4 m) x 24 (RoHS)