

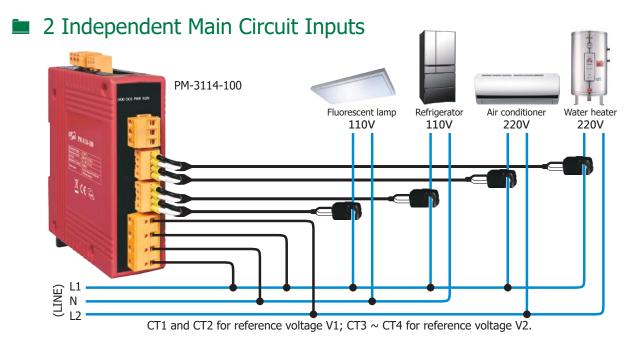
Introduction

ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-3000 series that gives you access to real-time electric usage for single-phase power measurement. With its high accuracy (< 0.5%, PF=1), the PM-3000 series can be applied to both low voltage primary side and/or medium/high voltage secondary side and enables the users to obtain reliable and accurate energy consumption readings from the monitored equipments in real time under operation. These compact size and cost-effective power meters are equipped with revolutionary wired clip-on CT (various types, support input current up to 200 A). It operates over a wide input voltages range $10 \sim 300 \text{ Vac}$ which allows worldwide compatibility. And with 2 channels relay outputs, it can be linked with sirens or lightings for alarm messages. It also supports Modbus RTU, Modbus TCP or CANopen protocols for easy integration.

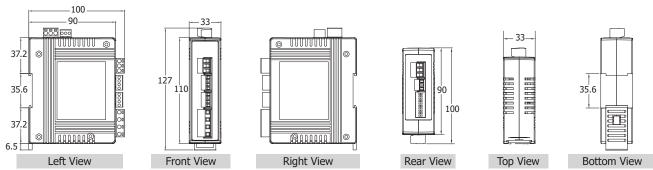
Specifications

Models		PM-3112	PM-3114	PM-3112-MTCP	PM-3114-MTCP	PM-3112-CPS	PM-3114-CPS	
AC Power Meas	urement							
Wiring		1P2W-2CT	1P4W-4CT	1P2W-2CT	1P4W-4CT	1P2W-2CT	1P4W-4CT	
Input Voltage		10 ~ 300 V						
Input Current		CTØ10 mm (60 A); CTØ16 mm (100 A); CTØ24 mm (200 A)						
Input Frequency		50/60 Hz						
W Accuracy		Better than 0.5% (PF=1)						
Starting Current		>0.03A (60A), >0.05A (100A), >0.09A (200A)						
Power Parameter		True RMS voltage (Vrms), True RMS current (Irms), Active Power (kW), Active Energy (kWh), Apparent Power (kVA), Apparent						
Measurement		Energy (kVAh), Reactive Power (kVAR), Reactive Energy (kVARh), Power Factor (PF), Frequency						
Data Update Rate		1 Second						
Communication								
	Protocol	Modbus-RTU		-		-		
RS-485	Baud Rate	9600,19200 (default), 38400,	_		_		
		115200; DIP	Switch Selectable					
1.5 1.05	Data	N,8,1 (default	E);	_		_		
	Format		E,8,2; O,8,1; O,8,2					
	Isolation	3000 V _{DC}				-		
Ethernet	Protocol	-		Modbus TCP		-		
	Protocol	-		-		CANopen		
CANopen	Baud Rate	_		_		125 k (default), 250 k,	500 k, 1 M; DIP	
						Switch Selectable		
Alarm Output								
Power Relay		Form A (Normal Open) x 2; Relay Contact Voltage Range: 5 A @ 250 V _{AC} (47 ~ 63Hz), 5 A @ 30 V _{DC}						
Power								
Input Range/Power		+12 ~ 48 V _{DC} /2 W						
Consumption		112.110 100/2 11						
Environment								
Temperature/Ambient Relative Humidity		Operating Temperature: -20 ~ +70°C/Storage Temperature: -25 ~ +80°C/10% ~ 90% RH, Non-condensing						

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Dimensions (Units: mm)



Ordering Information

RS-485 Interface	
PM-3112-100 CR	Modbus RTU, 2 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 2 (RoHS)
PM-3112-160 CR	Modbus RTU, 2 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 2 (RoHS)
PM-3112-240 CR	Modbus RTU, 2 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 2 (RoHS)
PM-3114-100 CR	Modbus RTU, 4 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 4 (RoHS)
PM-3114-160 CR	Modbus RTU, 4 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 4 (RoHS)
PM-3114-240 CR	Modbus RTU, 4 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 4 (RoHS)

Ethernet Interface						
PM-3112-100-MTCP CR	Modbus RTU, 2 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3112-160-MTCP CR	Modbus RTU, 2 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3112-240-MTCP CR	Modbus RTU, 2 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3114-100-MTCP CR	Modbus RTU, 4 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 4 (RoHS)					
PM-3114-160-MTCP CR	Modbus RTU, 4 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 4 (RoHS)					
PM-3114-240-MTCP CR	Modbus RTU, 4 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 4 (RoHS)					

CAN bus Interface						
PM-3112-100-CPS CR	Modbus RTU, 2 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3112-160-CPS CR	Modbus RTU, 2 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3112-240-CPS CR	Modbus RTU, 2 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 2 (RoHS)					
PM-3114-100-CPS CR	Modbus RTU, 4 loops single-phase Power Meter; includes 60A CT (Inside diameter 10 mm; wire lead 1.8 m) x 4 (RoHS)					
PM-3114-160-CPS CR	Modbus RTU, 4 loops single-phase Power Meter; includes 100A CT (Inside diameter 16 mm; wire lead 1.8 m) x 4 (RoHS)					
PM-3114-240-CPS CR	Modbus RTU, 4 loops single-phase Power Meter; includes 200A CT (Inside diameter 24 mm; wire lead 1.8 m) x 4 (RoHS)					

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