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3-Phase Smart Power Meter with LED Display

Features		
■ True RMS Power Measurements		
■ Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W		
Current Measurements Up to 400 A with Different CT Ratio		
■ Voltage Measurements Up to 500 V		
Clip-on CT for Easy Installation		
W Accuracy Better than 0.5% (PF=1)		
8 - Digit LED Display		
Supports Modbus RTU Protocol		
Total Harmonic Distortion (THD)		
■ Bi-directional Energy		
CE FC ROHS		

Introduction

ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-2133D series that gives you access to real-time electric usage for three-phase power measurement. With its high accuracy (<0.5%, PF=1), the PM-2133D 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 400 A). It operates over a wide input voltages range $10 \sim 500$ VAC which allows worldwide compatibility. This meter has LED display shows power.

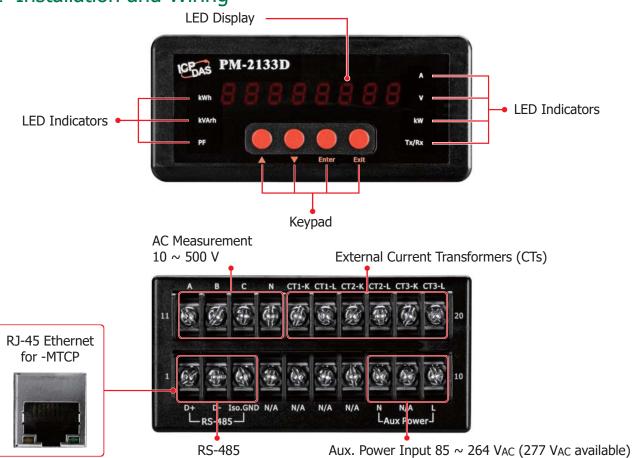
Specifications

Models		PM-2133D	PM-2133D-MTCP	
AC Power Mea	asurement			
Wiring		3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT		
Input Voltage		10 ~ 500 V		
Input Current		CTØ10 mm (0.05 A~60 A); CTØ16 mm (0.1 A~100 A); CTØ24 mm (0.15 A~200 A); CTØ36 mm (0.3 A~300 A); CTØ36 mm (0.3 A~400 A).		
Input Frequency		50 Hz (Range 45 ~ 55 Hz)/60 Hz (Range 55 ~ 65 Hz)		
W Accuracy		Better than 0.5% (PF=1)		
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 (45 ~ 65 Hz)		
Data Update Rate		1 Second		
Display Type		LED display		
Communication	on			
RS-485	Protocol	Modbus RTU	-	
	Baud Rate	9600,19200 (default), 38400, 115200	-	
	Data Format	N,8,1; N,8,2; E,8,1; E,8,2; O,8,1; O,8,2	-	
	Isolation	3000 V _{DC}	-	
Ethernet	Protocol	-	Modbus TCP	
Power				
Input Range		+85 ~ +264 V _{AC} (277 V _{AC} available)		
Power Consumption		6 W		
Environment				
Operating Temperature		-20 ~ +70 °C		
Storage Temperature		-25 ~ +80 °C		
Ambient Relative Humidity		10% ~ 90% RH, Non-condensing		

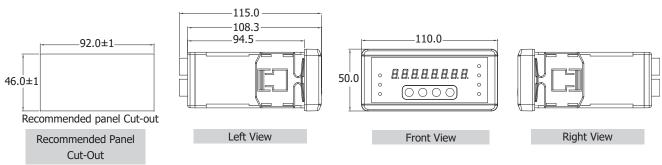
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Installation and Wiring



■ Dimensions (Units: mm)



Ordering Information

RS-485 Interface	
PM-2133D-100P CR	Modbus RTU, 3-phase power meter; includes 60A CT (Inside diameter 10 mm; wire lead 4 m) x 3 (RoHS)
PM-2133D-160P CR	Modbus RTU, 3-phase power meter; includes 100A CT (Inside diameter 16 mm; wire lead 4 m) x 3 (RoHS)
PM-2133D-240P CR	Modbus RTU, 3-phase power meter; includes 200A CT (Inside diameter 24 mm; wire lead 4 m) x 3 (RoHS)
PM-2133D-360P CR	Modbus RTU, 3-phase power meter; includes 300A CT (Inside diameter 36 mm; wire lead 4 m) x 3 (RoHS)
PM-2133D-400P CR	Modbus RTU, 3-phase power meter; includes 400A CT (Inside diameter 36 mm; wire lead 4 m) x 3 (RoHS)

Ethernet Interface (Available soon)		
PM-2133D-100P-MTCP CR	Modbus TCP, 3-phase power meter; includes 60A CT (Inside diameter 10 mm; wire lead 4 m) x 3 (RoHS)	
PM-2133D-160P-MTCP CR	Modbus TCP, 3-phase power meter; includes 100A CT (Inside diameter 16 mm; wire lead 4 m) x 3 (RoHS)	
PM-2133D-240P-MTCP CR	Modbus TCP, 3-phase power meter; includes 200A CT (Inside diameter 24 mm; wire lead 4 m) x 3 (RoHS)	
PM-2133D-360P-MTCP CR	Modbus TCP, 3-phase power meter; includes 300A CT (Inside diameter 36 mm; wire lead 4 m) x 3 (RoHS)	
PM-2133D-400P-MTCP CR	Modbus TCP, 3-phase power meter; includes 400A CT (Inside diameter 36 mm; wire lead 4 m) x 3 (RoHS)	

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