

Smart Power Meter



■ Features

- True RMS Power Measurements
- Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W
- Direct input of secondary side 1A/5A CT
- Voltage Measurements Up to 500 V
- W Accuracy Better than 0.5% (PF=1)
- Supports RS-485, Ethernet (PoE) or CANopen Interface
- Supports Modbus RTU, Modbus TCP or CANopen Protocol
- Total Harmonic Distortion (THD)
- IEC 61010-1 and EN 61010-1









Introduction .

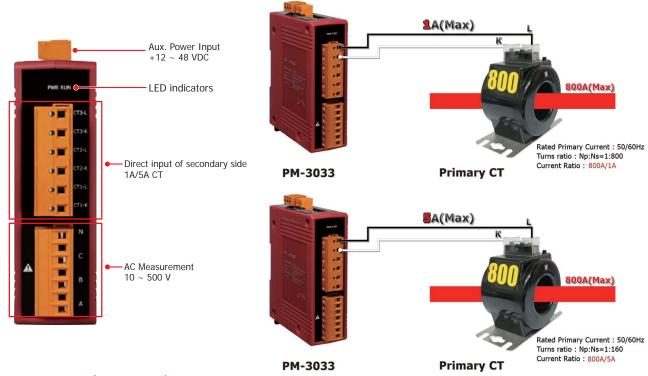
ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-3033 series that gives you access to real-time electric usage for three-phase power measurement. With its high accuracy (<0.5%, PF=1), the PM-3033 series can be applied to both low voltage primary side and/or medium/high voltage secondary side and enables the users to obtain reliable and accurate energy consumption readings from the monitored equipments in real time under operation.

Direct input from "secondary side 1A/5A" type CTs. Dedicated CTs are no longer needed, which lowers the cost of implementation. It operates over a wide input voltages range 10 ~ 500 VAC which allows worldwide compatibility. It also supports Modbus RTU, Modbus TCP or CANopen protocols for easy integration.

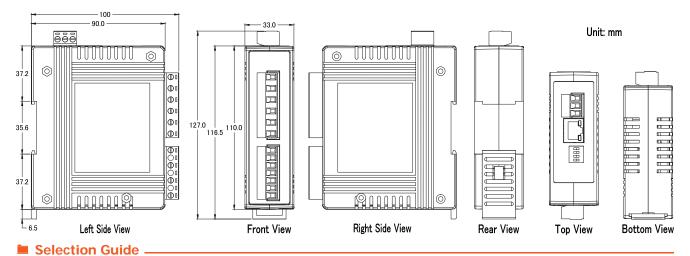
Specifications.

Models		PM-3033	PM-3033-MTCP	PM-3033-CPS	
AC Power Meas	surement				
Wiring		3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT			
Measurement Voltage		10 ~ 500 V			
Measurement Current		1A or 5A			
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 Energy (kVAh), Reactive Power (kVAR), Reactive Energy (kVARh), Power Factor (PF), Frequency			
Data Update Rate		1 Second			
Communication	า				
RS-485	Protocol	Modbus-RTU	-	-	
	Baud rate	9600,19200 (default), 38400, 115200; DIP Switch Selectable	-	-	
	Data format	N,8,1 (default); N,8,2; E,8,1; E,8,2; O,8,1; O,8,2	-	-	
	Isolation	3000 VDC	-	-	
Ethernet (PoE)	Protocol	-	Modbus TCP	-	
CANopen	Protocol	-	-	CANopen	
	Baud rate	-	-	125 k (default), 250 k, 500 k, 1 M; DIP Switch Selectable	
	Isolation	-	-	3000 VDC	
Power					
Power Input		+12 ~ 48 VDC	+12 ~ 48 VDC or PoE	+12 ~ 48 VDC	
Power Consumption		2 W			
Mechanical					
Casing		Plastic			
Dimensions (W x L x H)		127 mm x 100 mm x 33 mm			
Module Installation		DIN-Rail Mounting			
Environment					
Operating Temperature		-20 ~ +70 °C			
Storage Temperature		-25 ~ +80 °C			
Ambient Relative Humidity		10% ~ 90% RH, Non-condensing			

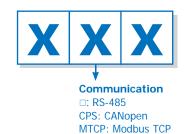
CT Installation and Wiring -



■ Dimensions (Units: mm) -



PM-3033 -



Ordering Information _____

RS-485 Interface				
PM-3033	Modbus RTU, 3-phase power meter (1A/5A CT Input type)			
Ethernet Interface				
PM-3033-MTCP	Modbus TCP, 3-phase power meter (1A/5A CT Input type)			
CANopen Interface				
PM-3033-CPS	CANopen, 3-phase power meter (1A/5A CT Input type)			

Website: http://www.icpdas.com E-mail: sales@icpdas.com Vol. EM 3.04.07