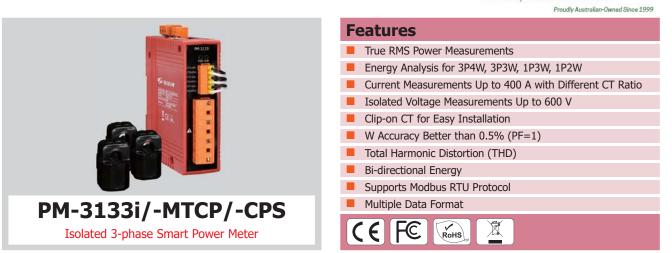
ICP Electronics Australia Pty Ltd

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Introduction

ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-3133i 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-3133i 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 $10 \sim 600$ VAC which allows worldwide compatibility. Built-in AC isolator protection, this means total isolation between the AC measurement side and the control side.

Specifications

Models		PM-3133i	PM-3133i-MTCP	PM-3133i-CPS
AC Power Measu	urement	•	•	•
Wiring		3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT		
Input Voltage		10 ~ 600 V; built-in isolation transformer		
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 (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 (45 ~ 65 Hz)		
Data Update Rate		1 Second		
Communication		1		
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	-
CAN bus	Protocol	-	-	CANopen
	Baud Rate	-	-	125 k (default), 250 k, 500 k, 1 M; DIP Switch Selectable
	Isolation	-	-	3000 VDC
Power				·
Input Range		+12 ~ 48 VDC	+12 ~ 48 VDC or PoE	+12 ~ 48 VDC
Power Consumption		2 W		
Environment				
Temperature		Operating Temperature: -20 \sim +70 $^{\circ}$ C / Storage Temperature: -25 \sim +80 $^{\circ}$ C		
Ambient Relative Humidity		10% ~ 90% RH, Non-condensing		

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Wire Connections

When the inverter is running, it will generate some high frequency or low frequency noise, and interfere with the peripheral equipment by conduction or radiation.

It is recommended that the CT and reference voltage of the meter be installed on the primary side of the "AC Filter" with an EMI ferrite core to minimize the interference effects of the inverter.

