



Features

- Bi-directional Energy
- True RMS Power Measurements
- Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W
- Measure different current ranges with different 333mV CTs; Rogowski coils are not supported
- Voltage Measurements Up to 500 V
- Clip-on CT for Easy Installation
- W Accuracy Better than 5% (PF=1)
- Total Harmonic Distortion (THD)
- Supports RS-485, Ethernet (PoE) or CANopen Interface
- Supports Modbus RTU, Modbus TCP or CANopen Protocol
- Supports 2 Power Relay Output (Form A)
- IEC 61010-1 and EN 61010-1
- Multiple Data Format

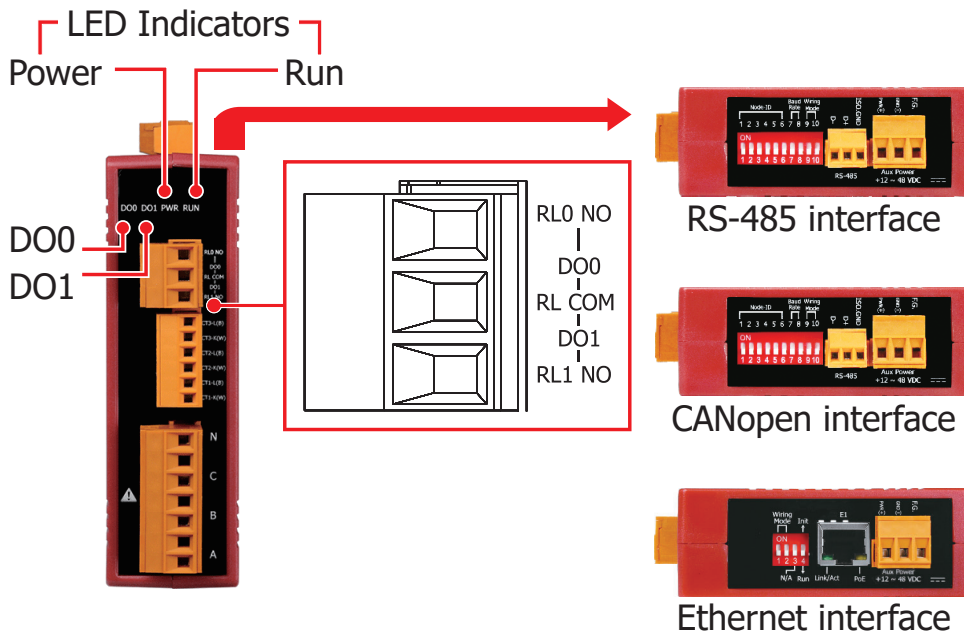


ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-3133P series that gives you access to real-time electric usage for three-phase power measurement. With high accuracy (<5%, PF=1), the PM-3133P series can be applied to both low voltage primary side and/or medium/high voltage secondary side and enables the users to obtain reliable and accurate energy consumption readings from the monitored equipments in real time under operation. It operates over a wide input voltages range 10 to 500 V_{AC} 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. You can use CTs (other than Rogowski coils) that you currently own with PM-3133P (without CTs) Power Meter. The CT inputs of the PM-3133P can be directly input from the secondary side of 333mV CT.

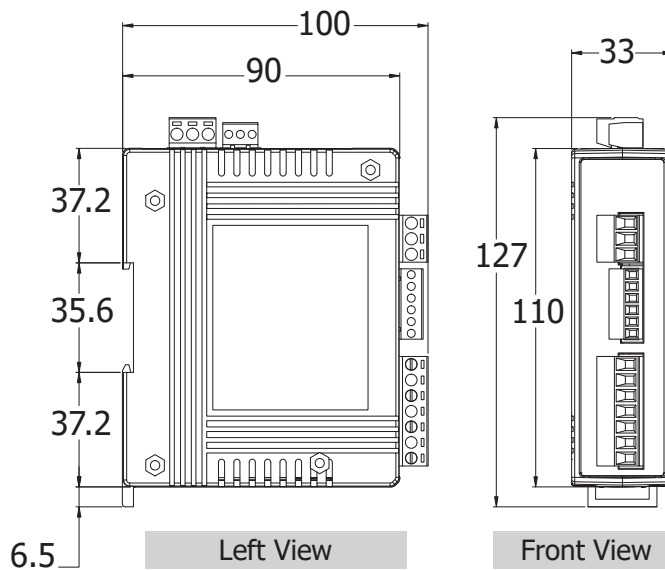
Specifications

Models	PM-3133P	PM-3133P-MTCP	PM-3133P-CPS
AC Power Measurement			
Wiring	3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT		
Measurement Voltage	10 ~ 500 V		
Measurement Current	Measure different current ranges with different 333mV CTs		
Measurement Frequency	50/60 Hz		
W Accuracy	Better than 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		
Data Update Rate	1 Second		
Communication			
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 V _{DC}	-
Ethernet (PoE)	Protocol	-	Modbus TCP
CANopen	Protocol	-	CANopen
	Baud Rate	-	125 k (default), 250 k, 500 k, 1 M; DIP Switch Selectable
	Isolation	-	3000 V _{DC}
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			
Power Input	+12 ~ 48 V _{DC}	+12 ~ 48 V _{DC} or PoE	+12 ~ 48 V _{DC}
Power Consumption	2 W		
Environment			
Temperature	Operating Temperature: -20 ~ +70 °C / Storage Temperature: -25 ~ +80 °C		
Ambient Relative Humidity	10% ~ 90% RH, Non-condensing		

Appearance



Dimensions (Units: mm)



Ordering Information

RS-485 Interface	
PM-3133P CR	Modbus RTU, 3-phase power meter (Can be directly input from the secondary side of 333mV CT; Rogowski coils are not supported) (RoHS)
Ethernet Interface	
PM-3133P-MTCP CR	Modbus TCP, 3-phase power meter (Can be directly input from the secondary side of 333mV CT; Rogowski coils are not supported) (RoHS)
CAN bus Interface	
PM-3133P-CPS CR	CANopen, 3-phase power meter (Can be directly input from the secondary side of 333mV CT; Rogowski coils are not supported) (RoHS)