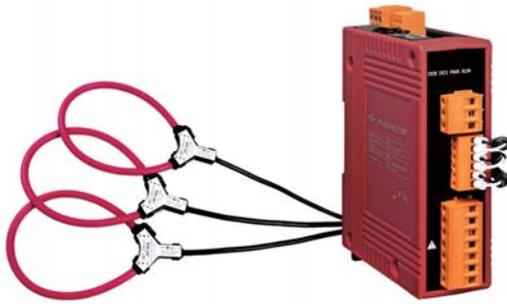


Three-phase Smart Power Meter



PM-3133-RCT/-MTCP/-CPS

Features



- True RMS Power Measurements
- Energy Analysis for 3P4W, 3P3W, 1P3W, 1P2W
- Current Measurements Up to 2000 A
- Voltage Measurements Up to 500 V
- Rogowski Coil Soft CT for Easy Installation
- W Accuracy Better than 1% (PF=1; Input Current >50A)
- Supports RS-485, Ethernet (PoE) or CANopen Interface
- Supports Modbus RTU, Modbus TCP or CANopen Protocol
- Supports 2 Power Relay Output (Form A)
- Total Harmonic Distortion (THD)

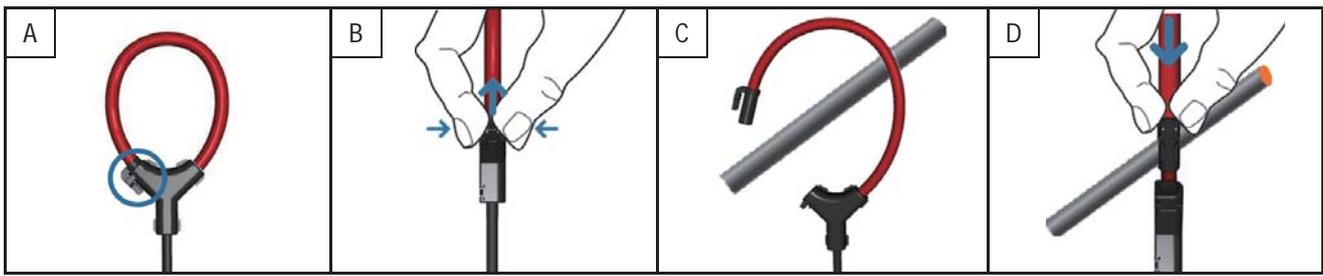
Introduction

ICP DAS brings the most powerful, cost-effective, advanced Smart Power Meters PM-3133-RCT that gives you access to real-time electric usage for three-phase power measurement. With its high accuracy (<1%, PF=1; Input Current >50A), this 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 Rogowski Coil CT is "rope-style" Current Transformer which delivers "Easy Installation" features for large window size (55 ~ 105mm) and mechanical flexibility for tight space. It operates over a wide input voltages range 10 ~ 500 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-3133-RCT	PM-3133-RCT-MTCP	PM-3133-RCT-CPS
AC Power Measurement			
Wiring	3P4W-3CT, 3P3W-2CT, 3P3W-3CT, 1P2W-1CT, 1P3W-2CT		
Measurement Voltage	10 ~ 500 V		
Measurement Current	CTØ55 mm (500 A), CTØ80 mm (1000 A), CTØ105 mm (2000 A)		
Measurement Frequency	50/60 Hz		
W Accuracy	Better than 1% (PF=1; Input Current >50A)		
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, THD		
Data Update Rate	1 Second		
Communication			
Interface	RS-485	Ethernet (PoE)	CANopen
Protocol	Modbus-RTU	Modbus TCP	CANopen
Baud rate	9600,19200 (default), 38400, 115200; DIP Switch Selectable	-	125 k (default), 250 k, 500 k, 1 M; 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	-	3000 VDC
Alarm Output			
Power Relay	Form A (Normal Open) x 2; Relay Contact Voltage Range: 5 A @ 250 VAC (47 ~ 63Hz), 5 A @ 30 VDC		
Power			
Power Input	+12 ~ 48 VDC	+12 ~ 48 VDC or PoE	+12 ~ 48 VDC
Power Consumption	2 W		
Environment			
Temperature	Operating Temperature: -20 ~ +70 °C / Storage Temperature: -25 ~ +80 °C		
Ambient Relative Humidity	10% ~ 90% RH, Non-condensing		

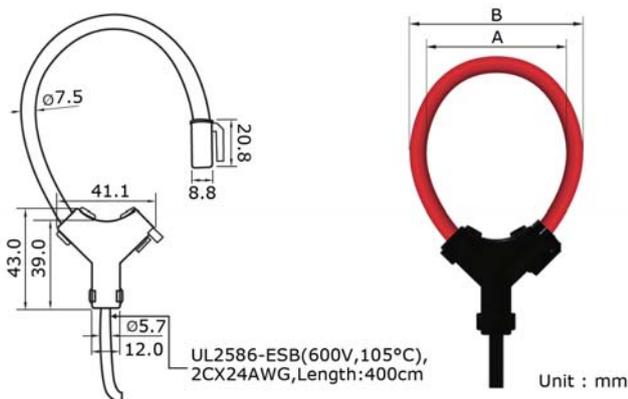
Installation



Rogowski Coil Soft CT Installation



Dimensions (Units: mm)



Models	A	B
PM-3133-RCT500P	55.0	68.5
PM-3133-RCT1000P	80.0	93.5
PM-3133-RCT2000P	105.0	118.5

Ordering Information

RS-485 Interface	
PM-3133-RCT500P	Modbus RTU, 3-phase power meter, 500A Rogowski Coil CT
PM-3133-RCT1000P	Modbus RTU, 3-phase power meter, 1000A Rogowski Coil CT
PM-3133-RCT2000P	Modbus RTU, 3-phase power meter, 2000A Rogowski Coil CT
Ethernet Interface <i>Available soon</i>	
PM-3133-RCT500P-MTCP	Modbus TCP, 3-phase power meter, 500A Rogowski Coil CT
PM-3133-RCT1000P-MTCP	Modbus TCP, 3-phase power meter, 1000A Rogowski Coil CT
PM-3133-RCT2000P-MTCP	Modbus TCP, 3-phase power meter, 2000A Rogowski Coil CT
CANopen Interface <i>Available soon</i>	
PM-3133-RCT500P-CPS	CANopen, 3-phase power meter, 500A Rogowski Coil CT
PM-3133-RCT1000P-CPS	CANopen, 3-phase power meter, 1000A Rogowski Coil CT
PM-3133-RCT2000P-CPS	CANopen, 3-phase power meter, 2000A Rogowski Coil CT