

Features

- True RMS energy and power parameters measurement in compact size
- Clip-on CT, easy wiring for on-line installation
- RS-485 communication support Modbus protocol
- Wh accuracy better than 0.5% (PF=1)
- Wide range of measurement with various size of CT , up to 200A (24Φ mm)
- LED pulse output

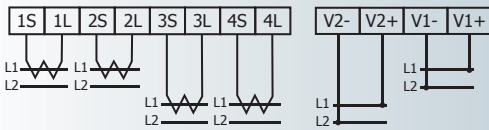


Installs Simple Clip-on CT

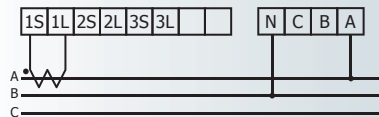


Wiring Diagram

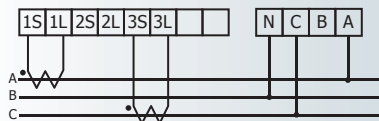
1P4W (PM-2134)



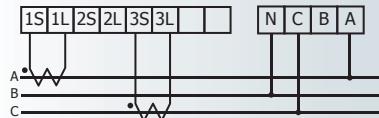
1P2W-1CT (PM-2133)



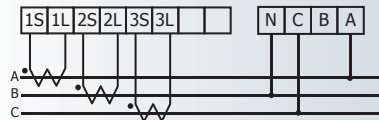
1P3W-2CT (PM-2133)



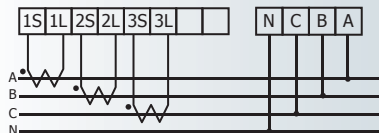
3P3W-2CT (PM-2133)



3P3W-3CT (PM-2133)



3P4W-3CT (PM-2133)



PM-213x 3 Phase/4 Loops 1 Phase Compact Smart Meter



Introduction

To figure out how much energy is using or was wasted is always difficult but crucial to the supervisors.

Based on its high accuracy (0.5%, PF=1), PM213x series products can be applied both on low voltage primary side and/or medium/high voltage secondary side to ensure reliable and accurate energy consumption readings of the monitored equipments. With wired chip-on CT (wide range up to 200A), standard Modbus communication RS-485 protocol setting, now the most compact and low cost Smart Meters are brought to you. PM-213x series products are designed for general Single-phase and Three-phase power measurements.

Specifications

Model	PM-2134	PM-2133
Input Voltage	10 - 300 V	10 - 500 V
Input Current	CT Φ10 mm (60 A), CT Φ16 mm (100 A), CT Φ24 mm (200 A)	
Aux Power	DC 10 - 30 V	
Frequency	60/50 Hz	
Starting I	<0.025A	
Wiring Diagram	1-phase 4-channel	Auto or manual setting 1P2W-1CT, 1P3W-2CT, 3P3W-2CT, 3P3W-3CT, 3P4W
Power Parameters Measures	V1, V1, V2, V2 I 1, I 2, I 3, I 4 kW1, kW2, kW3, kW4 kVA1, kVA2, kVA3, kVA4 kvar1, kvar2, kvar3, kvar4 PF1, PF2, PF3, PF4 kWh1, kWh2, kWh3, kWh4 kVAh1, kVAh2, kVAh3, kVAh4 kvarh1, kvarh2, kvarh3, kvarh4	VA, VB, VC, Vave IA, IB, IC, I ave kWA, kWb, kWc, kWtot kVAA, kVAB, kVAC, kVAtot kvarA, kvarB, kvarC, kvartot PFA, PFB, PFC, Pftot kWhA, kWhB, kWhC, kWhTot kVAhA, kVAhB, kVAhC, kVAhtot kvarhA, kvarhB, kvarhC, kvarhtot
Communication	RS-485, half duplex isolated Baud Rate: 9600, 19200, 38400 Protocol: Modbus-RTU	
kWh Accuracy	0.5% (PF=1), better than IEC62053-21	
Dimensions	78 (L) × 35 (W) × 99 (H) mm	
Operating Temperature	-10 °C ~ +70 °C	
Installation	DIN-Rail	

Ordering Information

Model	Name/CT size (measurement)/Frequency/Edition
PM-2133-100 CR	3 Phase Compact Smart Meter/CT: O10 mm (60A)/60 Hz/English (RoHS)
PM-2133-160 CR	3 Phase Compact Smart Meter/CT: O16 mm (100 A)/60 Hz/English (RoHS)
PM-2133-240 CR	3 Phase Compact Smart Meter/CT: O24 mm (200 A)/60 Hz/English (RoHS)
PM-2133-101 CR	3 Phase Compact Smart Meter/CT: O10 mm (60 A)/50 Hz/English (RoHS)
PM-2133-161 CR	3 Phase Compact Smart Meter/CT: O16 mm (100 A)/50 Hz/English (RoHS)
PM-2133-241 CR	3 Phase Compact Smart Meter/CT: O24 mm (200 A)/50 Hz/English (RoHS)
PM-2134-100 CR	4 Loops 1 Phase Compact Smart Meter/CT: O10 mm (60 A)/60 Hz/English (RoHS)
PM-2134-101 CR	4 Loops 1 Phase Compact Smart Meter/CT: O10 mm (60 A)/50 Hz/English (RoHS)