

Automation can be Easy. Automation can be Easy.

Features

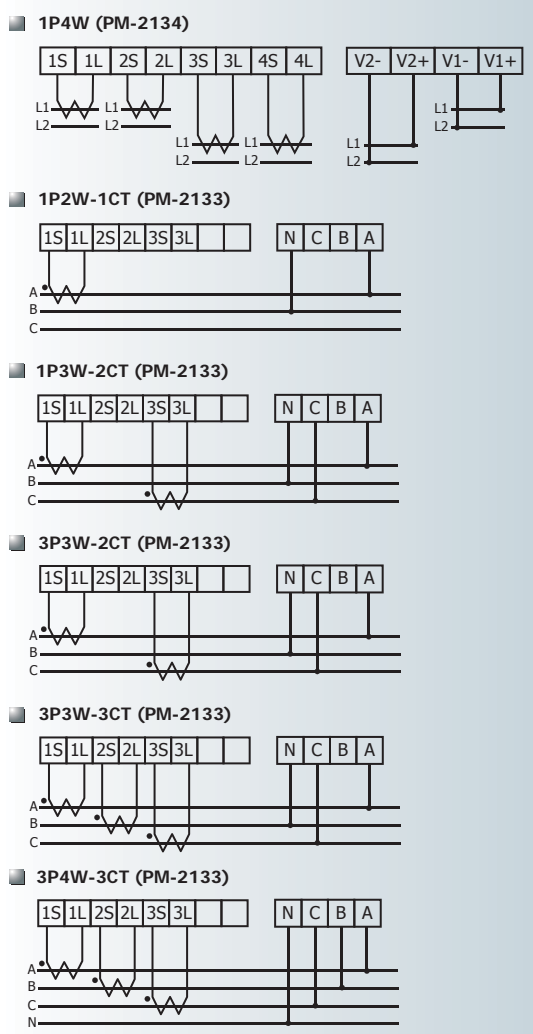
- True RMS energy and power parameters measurement in compact size
- Easy wiring for on-line installation
- RS-485 communication supported Modbus protocol
- Compatible with CAN specification 2.0B
- Support CAN baud-rate: 125 k, 250 k, 500 k, 1 M bps
- Wh accuracy better than 1% (PF=1)
- With wired clip-on CT (various types support input current up to 200A)
- LED pulse output



Installs Simple Clip-on CT



Wiring Diagram



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

Introduction

It's always difficult but crucial to the supervisors to figure out how much energy is consuming. PODAK brings the most powerful, cost effective, advanced Compact Power Meters, PM213X series, to the markets.

With its high accuracy (1%, PF=1), the PM213x series products can be applied both on low voltage primary side and/or medium/high voltage secondary side and enable the users to obtain in real time the reliable and accurate energy consumption readings from the monitored equipments while in operation. These compact size and cost effective Power Meters are equipped with revolutionary wired clip-on CT (various types support input current up to 200A) and standard Modbus communication RS-485 protocol for easy deployment. It works with input voltages ranging 10V ~ 500V, supporting a wide range of applications

PODAK offers PM-213X family in a full range of Single-phase and Three-phase compact power meters for power monitoring. The products offer a rich feature set combined with easy-to-integrate communications.

Specifications

Model	PM-2134	PM-2133
Input Voltage	10 - 300 V	10 - 500 V
Input Current	CT Φ 10 mm (60 A), CT Φ 16 mm (100 A), CT Φ 24 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	Modbus-RTU CAN bus	RS485, half duplex isolated Baud Rate: 9600, 19200 (default), 38400 Baud Rate: 125 k (default) · 250 k · 500 k · 1000 k
kWh Accuracy	PF=1, <1%	
Dimensions	78 (L) × 35 (W) × 99 (H) mm	
Operating Temperature	-10 °C ~ +70 °C	
Installation	Rail-mounted	

Ordering Information

PM-213 - -

Model
4: 4 Loops 1 Phase Compact Smart Meter x 4CT's
3: 3 Phase Compact Smart Meter x 3CT's

CT size (measurement)
100: CT Φ 10 mm (0 ~ 60A)
160: CT Φ 16 mm (0 ~ 100A)
240: CT Φ 24 mm (0 ~ 200A)

Communication
: Modbus RTU
CAN: CAN bus
CPS: CANopen
DNS: DeviceNet
DNP3: DNP3.0
EIP: Ethernet/IP