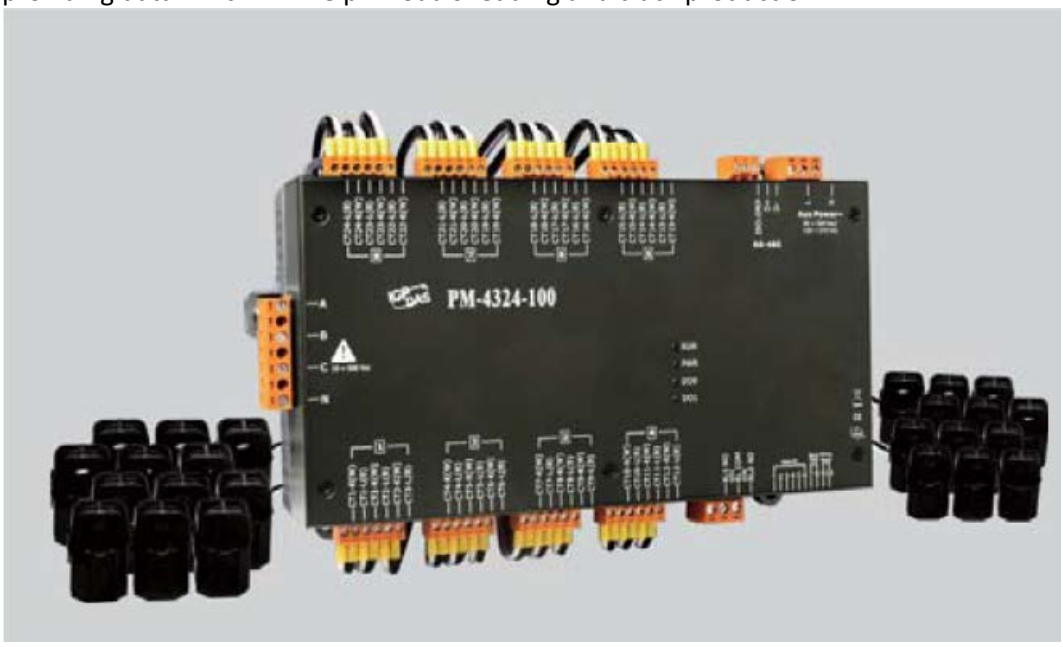
Power Monitoring for Large Buildings

Power monitoring helps save money. Information obtained from power monitoring can be used to bill tenants, monitor energy usage and determine breakdowns or failure of equipment.

The PM-4324 series Power Meters can measure power consumption for up to 24 single phase channels per device. For large apartment complexes, office building, shopping malls and factories, this can be an ideal solution. Using these measurements, the user can determine energy usage by tenants and charge according to usage. In a factory environment, the PM readings can help to control energy costs by providing data which will help in load shedding and track production.



Since power in most buildings is routed through a central panel, measuring individual circuits is easy. Further, using the included clip on CT's , it eliminates the necessity to disturb the wiring in the panels.

We have models which support most of the standard protocols: Modbus RTU, Modbus TCP, CanOpen. Once you know the protocol and maximum current rating, you can select the correct power meter using the table below.

Making Data Acquisition Easy

Selection Guide

PM-4324 A - X X X P - X X X

- **A**: 2 seperate main circuit inputs
- **X X X**: CT size (measurement)
  - 100P: CTΦ10 mm, 60 A Max.
  - 160P: CTΦ16 mm, 100 A Max.
  - 240P: CTΦ24 mm, 200 A Max.
  - 360P: CTΦ36 mm, 300 A Max.
  - 400P: CTΦ36 mm, 400 A Max.
- **P**: Current Transformers (Secondary voltage 333mV)
- **X X X**: Communication
  - □: RS-485
  - CPS: CANopen
  - MTCP: Modbus TCP

Ordering Information

RS-485 Interface			
PM-4324P	Modbus RTU, Multi-Circuit Power Meter (Can be directly input from the secondary side of 333mV CT)		
PM-4324-100P	Modbus RTU, Multi-Circuit Power Meter (60 A)	PM-4324A-100P	Modbus RTU, Multi-Circuit Power Meter (60 A)
PM-4324-160P	Modbus RTU, Multi-Circuit Power Meter (100 A)	PM-4324A-160P	Modbus RTU, Multi-Circuit Power Meter (100 A)
PM-4324-240P	Modbus RTU, Multi-Circuit Power Meter (200 A)	PM-4324A-240P	Modbus RTU, Multi-Circuit Power Meter (200 A)
PM-4324-360P	Modbus RTU, Multi-Circuit Power Meter (300 A)	PM-4324A-360P	Modbus RTU, Multi-Circuit Power Meter (300 A)
PM-4324-400P	Modbus RTU, Multi-Circuit Power Meter (400 A)	PM-4324A-400P	Modbus RTU, Multi-Circuit Power Meter (400 A)

Ethernet Interface			
PM-4324-100P-MTCP	Modbus TCP, Multi-Circuit Power Meter (60 A)	PM-4324A-100P-MTCP	Modbus TCP, Multi-Circuit Power Meter (60 A)
PM-4324-160P-MTCP	Modbus TCP, Multi-Circuit Power Meter (100 A)	PM-4324A-160P-MTCP	Modbus TCP, Multi-Circuit Power Meter (100 A)
PM-4324-240P-MTCP	Modbus TCP, Multi-Circuit Power Meter (200 A)	PM-4324A-240P-MTCP	Modbus TCP, Multi-Circuit Power Meter (200 A)
PM-4324-360P-MTCP	Modbus TCP, Multi-Circuit Power Meter (300 A)	PM-4324A-360P-MTCP	Modbus TCP, Multi-Circuit Power Meter (300 A)
PM-4324-400P-MTCP	Modbus TCP, Multi-Circuit Power Meter (400 A)	PM-4324A-400P-MTCP	Modbus TCP, Multi-Circuit Power Meter (400 A)

CANopen Interface			
PM-4324-100P-CPS	CANOpen, Multi-Circuit Power Meter (60 A)	PM-4324A-100P-CPS	CANOpen, Multi-Circuit Power Meter (60 A)
PM-4324-160P-CPS	CANOpen, Multi-Circuit Power Meter (100 A)	PM-4324A-160P-CPS	CANOpen, Multi-Circuit Power Meter (100 A)
PM-4324-240P-CPS	CANOpen, Multi-Circuit Power Meter (200 A)	PM-4324A-240P-CPS	CANOpen, Multi-Circuit Power Meter (200 A)
PM-4324-360P-CPS	CANopen, Multi-Circuit Power Meter (300 A)	PM-4324A-360P-CPS	CANopen, Multi-Circuit Power Meter (300 A)
PM-4324-400P-CPS	CANopen, Multi-Circuit Power Meter (400 A)	PM-4324A-400P-CPS	CANopen, Multi-Circuit Power Meter (400 A)

In addition, if you already have CT's or if you require different ranges, you can select the model which provides a secondary CT. The PM-4324 series also have 2 channels of power relay outputs for alarms.

The power meter provides measurments for the following parameters:
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

If you have any questions concerning any of our Power Monitoring products, please contact us via email or phone. We are here to help.