PM2000 series

The easy choice for quality, value, and simplicity.

The PM2000 series meter is a next-generation energy and power meter that offers all the measurement capabilities required to monitor an electrical installation in a single 96 x 96 mm unit. The PM2000 series offers simplicity and reliability for basic energy cost and network management applications in both a LED or LCD display option.

This multifunction energy and power meter is the easy choice for quality, value, and reliability. Essential features, such as configurable data logging, industry-leading measurement accuracy, and power quality analysis. And best of all, it's easy, safe and fast to choose, purchase, and install the right PM2000 model for your application.

The PM2000 series meters help to help maximize energy cost savings, optimize operational efficiency, and improve business performance.

Cost Management Applications

- Bill checking to verify that you are only charged for the energy you use
- Aggregation of energy consumption, including WAGES, and cost allocation per area, per usage, per shift or per time within the same facility
- Energy cost and usage analysis per zone, per usage or per time period to optimize energy usage

Network Management Applications

- Metering of electrical parameters to better understand the behavior of your electrical distribution system
- Power quality analysis of THD and individual harmonics up to 15th and 31st order for Volts and Amps, per-phase
- Measurement of True PF and Displacement PF

PM2000 meters are available in LED and LCD display variants.

- PM2100 series:
  LED display type: Intuitive navigation with self- guided, three buttons, bright red color LEDs of 14.2 mm height. Two columns of LEDs indicate the parameter name chosen for display.

- PM2200 series:
  LCD display type: Monochrome graphical LCD of 128 x 128 resolution lets users read all three phase values simultaneously. The bright display enables easy reading even in extreme lighting conditions and viewing angles with intuitive menus, multi-language text, icons and graphics.

Versatile, multi-function power and energy meters

- Performance without compromise- exceptional reliability in its class
- Assured quality that you can trust to meet your needs throughout its life-cycle
- Outstanding value for an optimized feature set
- Simple to choose and easy to install and use for many applications

Selection Guide

Commercial ref. number	Model
Meters	
METSEPM2110	PM2110
METSEPM2120	PM2120
METSEPM2130	PM2130
METSEPM2210	PM2210
METSEPM2220	PM2220
METSEPM2230	PM2230
I/O Modules	
METSEPM2KDGTLIO22	PM2K2DIDO
METSEPM2KANLGIO22	PM2K2AIAO
METSEPM2K2DI2RO	PM2K2DIRO

See your Schneider Electric representative for complete ordering information.

PM2000 Series Features

Features and Options	PM2110	PM2120	PM2130	PM2210	PM2220	PM2230
Accuracy Class for Wh	1.0		0.5S	1.0		0.5S
Accuracy Class for VARh	1.0					
Accuracy for VAh	±0.5 %					
Amps, per-phase, average and calculated neutral current	●					
Voltage, V L-N, V L-L, per-phase and average	●					
Power Factor	True PF	True PF Displacement PF		True PF	True PF Displacement PF	
Frequency, any available phase	●					
Power: W, VA, VAR: per phase and total	●					
3-phase unbalance %	Current	Current Voltage[+4]		Current	Current Voltage	
Demand parameters (Present, Last, Predicted and Peak for W, VA, VAR, Amps) Date and Time stamp for peak demand	● (no timestamp)	●		● (no timestamp)	●	
Energy: Wh, VAh, VARh (4 quadrant)Delivered (Import or Forward), Received (Export or Reverse)	Delivered, Received	Delivered, Received Total[+4], Net[+4], Last cleared[+4]		Delivered, Received, Total, Net	Delivered, Received Total, Net, Last cleared[+3]	
Active load timer, meter operating timer, run hours and power outage counter		Through com			●	
THD %: Voltage L-N or L-L, Amps per phase	●					
Individual harmonics for Voltage, Current, per-phase		Up to 15th[+4]	Up to 31st[+4]		Up to 15th	Up to 31st
Min/Max with real time clock For avg or total of V L-L, V L-N, Amps, PF, Hz, W, VA, VAR parameters with date and time stamp of occurrence		Through com			●	
RTC/battery[+6]		●	●		●	●
Communication	Pulse Output	RS-485		Pulse Output	RS-485	
Expandable Analogue IO module[+5] PM2K2AIAO: 2 input & 2 output channels PM2K1AIAO: 1 input & 1 output channel			●			●
Expandable Digital IO module3 PM2K2DIDO: 2 input & 2 output channels			●			●
Expandable DI RO module PM2K2DI2RO: 2 Digital input, 2 Mech Relay output channels Whetting output voltage: 24V DC, 8 mA max load			●			●
Customizable data logging up to 2 parameters. Option to select Power (W,VA,VAR) Bi-directional energy (±Wh, ±VAh, ±VARh), Demand (W, VA,VAR) with configurable interval and duration (e.g. 2 parameters for 60 days at 15 minutes interval)			●			●
Alarms: 23 set point driven alarms from 10 parameters including - V L-L, V L-N, Amps, F, V-THD %, W-Tot, VA-Tot, VAR-Tot, PF-Avg, Last DM, Present DM, Predicted DM.4 Unary alarms - meter power UP, meter reset, meter diagnostic, phase reversal.2 digital input status - with DI/DO or DI/RO card only			●			●
Daily time snap shot: Snap shot of Avg Voltage, Avg Current, Total Active Power& Energy delivered as measured at configurable time of day					●	●
Rate counters: 2 configurable counters to display values in customer specified units base on energy measured (e.g., $kgCO_2$ emission or energy cost)					●	●

[+4] Through communication only.
[+5] Any one IO module can be used at a time with PM2130 or PM2230 meter. The control power range for PM2130 & PM2230 meters with or without IO module shall be 72 to 304 V AC L-N or 90 to 304 V DC.
[+6] Battery backup duration 3 years when meter is in continuous or accumulated Power OFF condition.