PowerLogic™ PM8000 series

Simplifying power quality, maximizing versatility

These compact meters help ensure the reliability and efficiency of your facility by making the management of power quality, availability, and reliability easy. Measure, understand, and act on insightful power and energy data gathered from your entire system. The PM8000 has the versatility to perform nearly any job you need a meter to do, wherever you need it!

Address power issues before they cause problems

- Monitor harmonics to mitigate excessive heating and premature failure of transformers
- Use trending and alarming to detect fluctuations in current pull of critical equipment to prevent motor failure
- Utilize millisecond time stamping to analyze sequence of events
- Identify root cause by analyzing electrical faults with patented disturbance direction detection
- Identify power quality issues per EN 50160, including frequency inconsistency, voltage fluctuations and unbalance, and harmonic contribution
- Allocate costs for water, air, gas, electricity, and steam (WAGES) across departments, phases of industrial process, or cost centers
- Utilize time-of-use calendar to capture electrical consumption for specific times, including on/off peak and holidays

The best choice for power management

The PM8000 series is highly accurate, extremely reliable, and unmatched in flexibility and usability. Compliant with stringent international standards that guarantee accuracy, these meters are ideal for industrial and critical power facilities.

PM8000 meters combine accurate 3-phase energy and power measurements with data logging, power quality analysis, alarming and I/O capabilities not typically available in such compact meters. Patented technology combines convenient, pre-configured functionality with the ability to customize the meter configuration to meet unique requirements. This embedded capability can save the expense and complexity of additional equipment, both today and tomorrow.

Plus, simple installation and networking make energy information quickly accessible, while integration with EcoStruxure™ software and your energy management system make it immediately actionable.

Your power monitoring workhorse

- Reveal and understand complex power quality conditions
- Gather and act on facility-wide energy and consumption data
- Integrate easily with energy management systems
- Protect your investment with adaptable ION™ technology

Meter Range Guide

Functionality
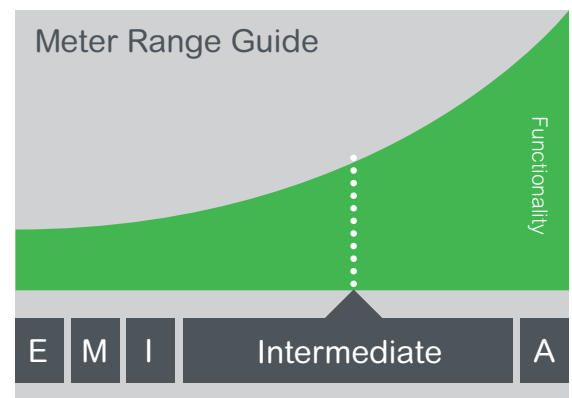
| E | M | I | Intermediate | A |

- Network management and power quality
- Feeders and critical loads

Key:
- E Entry
- M Multicircuit
- B Basic
- I Intermediate
- A Advanced

PM8000 series features

Intermediate meter		
General		
Use on LV and MV systems		●
Current accuracy (5A Nominal)		0.1 % reading
Voltage accuracy (57 V LN/100 V LL to 400 V LN/690 V LL)		0.1 % reading
Active energy accuracy		0.2 %
Number of samples/cycle or sample frequency		256
Instantaneous rms values		
Current, voltage, frequency		●
Active, reactive, apparent power	Total and per phase	●
Power factor	Total and per phase	●
Current measurement range (autoranging)		0.05 - 10A
Energy values		
Active, reactive, apparent energy		●
Settable accumulation modes		●
Demand values		
Current	Present and max. values	●
Active, reactive, apparent power	Present and max. values	●
Predicted active, reactive, apparent power		●
Synchronization of the measurement window		●
Setting of calculation mode	Block, sliding	●
Power quality measurements		
Harmonic distortion	Current and voltage	●
Individual harmonics	Via front panel and web page	63
	Via StruxureWare software	127
Waveform capture		●
Detection of voltage swells and sags		●
Fast acquisition	1/2 cycle data	●
EN 50160 compliance checking		●
Customizable data outputs (using logic and math functions)		●
Data recording		
Min/max of instantaneous values		●
Data logs		●
Event logs		●
Trending/forecasting		●
SER (Sequence of event recording)		●
Time stamping		●
GPS synchronization (+/- 1 ms)		●
Memory (in Mbytes)		512
Display and I/O		
Front panel display		●
Wiring self-test		●
Pulse output		1
Digital or analog inputs(max)		27 digital 16 analog
Digital or analog outputs (max, including pulse output)		1 digital 8 relay 8 analog
Communication		
RS 485 port		1
Ethernet ports		2
Serial port (Modbus, ION, DNP3)		●
Ethernet port (Modbus/TCP, ION TCP, DNP3 TCP, DHCP, DNS, IPv4, IPv6, IEC 61850)		●
Ethernet gateway		●
Alarm notification via email		●
HTTP web server with waveform viewer		●
SNMP with custom MIB and traps for alarms		●
SMTP email		●
PTP and NTP time synchronization		●
FTP file transfer		●

- Four-metered current inputs allow direct measurement of 3-phase currents and neutral current for enhanced view of harmonics
- Modular, field installable I/O architecture for scalability
- Dual Ethernet ports support daisy-chaining, removing need for an Ethernet switch inside power equipment, while redundant ring topology provides enhanced availability

Learn more at www.schneider-electric.us/powermonitoring

Let us help you simultaneously maximize power reliability, availability, and quality, as well as improve operational and cost efficiency for your entire enterprise with a fully integrated power management solution.

As standards, specifications and designs develop from time, always ask for confirmation of the information given in this publication.

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