

# PowerLogic PM8000 series

## Simplifying power quality, maximising versatility

These compact meters help ensure the reliability and efficiency of your facility by simplifying the management of power quality, availability, and reliability. Measure, understand, and act on insightful power and energy data gathered from your entire system. The PowerLogic™ 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
- Utilise millisecond time stamping to analyse sequence of events
- Identify root cause by analysing 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
- Utilise time-of-use calendar to capture electrical consumption for specific times, including on/off peak and holidays

### The best choice for power management

The PowerLogic 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.

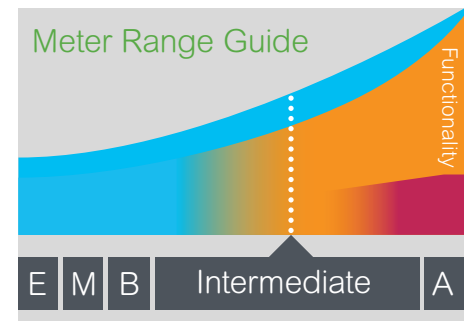
PM8000 series meters combine accurate three-phase energy and power measurements with data logging, power quality analysis, alarming, and I/O capabilities not typically available in such compact meters. Patented ION™ technology provides convenient preconfigured functionality and customisation to meet unique requirements.

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



### Your power monitoring prodigy

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



- Network management and power quality
- Feeders and critical loads

Key: **E** Entry **I** Intermediate  
**M** Multicircuit **A** Advanced  
**B** Basic  
■ Cost Management  
■ Network Management  
■ Asset Management

## PM8000 series features

Intermediate meter		
General		
Use on LV and MV systems		
Current accuracy (5 A 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 – 10 A
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		
Synchronisation 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		
Customisable 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 synchronisation (+/- 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, IEC 61850 )		■
Ethernet gateway		■
Alarm notification via email		■
HTTP Web server		■
SNMP with custom MIB and traps for alarms		■
SMTP email		■
NTP time synchronisation		■
FTP file transfer		■



- Four metered-current inputs allow direct measurement of three-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 the need for an Ethernet switch inside power equipment, while redundant ring topology provides enhanced availability

Click to learn more about the PM8000 series meters.

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