The value you want, the benchmark metering accuracy you need

PowerLogic PM5000 series





With it's accuracy, simplicity, quality, and rich feature set making the PowerLogic PM5000 series meters the industry's performance benchmark for cost management applications, I'd have expected it to cost more.

More capability than you expected

Budget conscious professionals have a new benchmark for metering performance

The PowerLogic PM5000 series unites high quality and affordability in a compact meter. It is meticulously engineered to provide high-end cost management capabilities in a straightforward metering platform. This means it's both affordable and capable, while being simple to purchase, install and use. Use it to maximize operational efficiency, increase network reliability, and improve business performance.





Optimized for energy cost management

An essential combination of features, such as multiple tariffs and data logging, merges with industry-leading measurement accuracy to match the requirements of energy cost management applications, in buildings and industry. Compliant with MID, IEC 62052/53, and IEC 61557-12 metering standards, the PM5000 series meters remove any uncertainty in billing for energy costs and ensure a high level of performance that noncompliant devices cannot match.

Complying with most demanding international metering standards

IEC 61053-22 Class 0.5S / Class 0.2S

ANSI 12.20 (0.5) Class 10 (PM5500 models)

IEC 61557-12 PMD/S/K70/0.5 (PMS100 & PMS300 models)

IEC 61557-12 PMD/S/K70/0.2 (PM5500 models) IEC 62052-11

IEC 62053-24

MID, EN50470-1/3 - Annexe B & Annexe D

CE as per IEC 61010-1Ed.3

cULus as per UL 61010-1 Ed.3

Optimize energy use and costs across your entire

An ideal combination of features

Affordable to buy and easy to choose, the highly-capable PowerLogic PM5000 series meters are designed to provide the best combination of features to match all your energy cost management needs. They provide the measurement capabilities needed to allocate energy usage, perform tenant metering and sub-billing, pinpoint energy savings, optimize equipment efficiency and utilization, and perform a high level assessment of the power quality of the electrical network.

Energy cost management

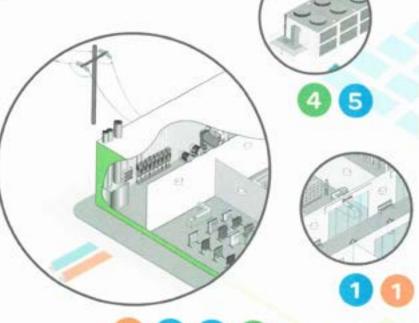
- 1) Identify consumption to recoup energy costs
 - reduce consumption of electricity and water
 - sub-bill tenants and identify process energy use
 - identify savings opportunities
 - Integrate other water, air, gas, electricity and steam meter data
- 2) Improve energy supply
 - optimize energy procurement
 - billing verification
- 3) Reduce energy bills
 - reduce billing penalties and optimize energy procurement
 - shed unnecessary loads
 - participate in demand response and peak shaving programs

Electrical network management

- 4) Monitor to increase reliability
 - receive fast fault alarms
 - identify underperforming electrical assets
 - increased productivity, comfort & safety
 - increase reliability and recover from outages faster
 - understand root failure causes
 - increase maintenance personnel productivity

Asset management

- Optimize asset usage to boost efficiencies
 - assess operational efficiency
 - optimize preventative maintenance
 - avoid over building
 - identify spare network capacity
 - detect and mitigate power quality issues to increase equipment life









PM5100

organization











This example architecture shows only one of many application possibilities for PM5000 series meters. Consider the level of measurement accuracy and your information requirements at each metering point in order to select the most appropriate device.

Key features and capabilities for improved metering performance

Installation and configuration

- Easy, tool-free installation thanks to two-clip mounting and one-piece construction in a standard DIN 96 x 96 mm cutout
- Compact 72 mm depth

Graphical display

- Back-lit, anti-glare display provides easy reading in extreme lighting conditions and viewing angles
- Intuitive menu-driven navigation, large characters, icons, and graphics offer easy access to important information in English, Spanish, French, Italian, German, Portuguese, Chinese, and Russian

Onboard web pages (PM5500 models)

- View real-time and logged information using any browser for easy information access without specialized software
- Verify communications and easily troubleshoot issues

Battery backed real-time clock

- Continues operation during power outages
- Time-stamped alarms and events

Alarms

- Meters offer a combination of predefined and configurable alarms with 1 s time stamping, varies by meter model
- Each meter has an alarm log that contains the dated and time-stamped active and historical alarms
- Program alarms to trigger digital outputs or mechanical relays (select PM5300 models)

Back view



Digital I/O

- Monitor alarms, synchronize demand with external pulse, count pulses, calculate consumption from other WAGES meters
- Use digital outputs to signal another device or software, or execute automatic actions such as control of basic equipment. or alarm annunciation



4 current inputs (PM5500 models)

- Measuring neutral current is essential for avoiding device overload and network outage. Direct measurement is superior to calculated values since the latter are not accurate at higher trammonics.
- Calculate ground current in a 3-phase,
 4-wire system to determine all the possible current values

Data logging and internal memory

- PM5500 models: Up to 14 selectable parameters with configurable interval and duration (e.g. 6 parameters for 90 days @15 minute interval)
- PM5300 models: 2 parameters (kWh and kVAh) with configurable interval and duration for a total of 60 days
 15 minutes

Extended voltage range

 Direct connection up to 690 V L-L without voltage transformers for installations compliant with category Ill insulation level. Saves panel space by dispensing with transformers for control power or voltage inputs.

> Multiple tariffs

- Multiple tariffs offer the most flexibility with billing structures.
 Support up to 4 tariffs on PM5300 models or 8 tariffs on PM5500 models.
- Delivered and received real and reactive energy, apparent energy, input metering accumulated values, peak real power demand, peak reactive power demand

Harmonics

 THD and individual harmonics to the 15th order for PM5100, 31st order for PM5300, and 63rd for PM5500

> Dual Ethernet (PM5500 models)

 Daisy chain meters together to minimize both the wiring and the need for external switches or hubs.
 Each meter has a single IP address.

Features and Options	PM5110	PM5330	PM5340		
Installation			FW3340	PM5560	PM5563
Fast installation, panel mount with integrated display					
Fast installation, DIN rail mountable			-		-
Accuracy	CL 0.65	CL 0.5S	-	-	100
Onplay		UL 0.55		CL 0.28	CL 0.25
Becklit LCD, multilingual, bar graphs, 6 lines. 4 concurrent values					
Power and energy metering	-	- Daniel State of the last of			
3-phase voltage, current, power, demand, energy, frequency, power factor					
Multi-tariff		4			
Power quality analysis			.4	8	- 8
THD, thd, TDD					
Harmonics, individual (odd) up to	15th	31st			
VOs and relays		0100	Ofet:	.60nd	63rd
VOs	100	2DV2DO	201000		
Relays	0	2	20/200	4DV2DO	4DV2DQ
Alarms and control		The Party of the P	2	0	0
Altims	33	35			
Set point response time, seconds	1		35	52	52
Single and multi-condition alarms				1	1
Boolean alarm logic	-				
Communications		. *	-		
Serial ports with modbus protocol	1				
Thernet port with Modbus TCP protocol	-	1		1	
Onboard web server with web pages	-	-	1	2"	2"
2 Ethernet norts for disjourchain, one ID automo-		-	-		

^{** 2} Ethernet ports for daiey chain, one IP address.



For more information, please visit www.schneider-electric.com

Schneider Electric USA

295 Tech Park Drive LaVergne, TN 37086 Tel: 615-287-3535 www.schneider-electric.com

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