PM8000 series Technical Datasheet

The PowerLogic™ PM8000 series meters are compact, cost-effective multifunction power meters that will help you ensure reliability and efficiency of your power-critical facility.

Reveal and understand complex power quality conditions. Measure, understand and act on insightful data gathered from your entire power system. Designed for key metering points throughout your energy infrastructure, the PowerLogic™ PM8000 series meter has the versatility to perform nearly any job you need a meter to do, wherever you need it!

Applications

Ideal for low to high voltage applications in industrial facilities, data centers, infrastructure and other critical power environments.

B113687





The solution for

Markets that can benefit from a solution that includes PowerLogic™ PM8000 series meters:

- Industry
- Data centers
- Infrastructure
- Healthcare
- Buildings

Benefits

- Makes understanding power quality simple to help operations personnel avoid downtime and helps ensure increased productivity and equipment life.
- Makes energy and power quality immediately relevant and actionable to support your operational and sustainability goals.

Competitive advantages

- Modular, flexible patented ION technology architecture enables a simple building block approach.
- Disturbance Direction Detection, modularity and compliance with latest power quality standards.
- · Color screen.
- Multiple communication options.
- Excellent accuracy.

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

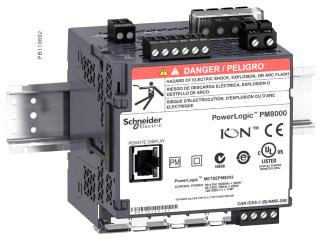
- EN 50160
- IEC 62053-22
- EN 50470
- IEC 62053-23
- IEC 61000-4-30
- IEC 62053-24
- IEC 61010-1
- IEC 62586-2
- IEC 61326-1
- IEEE 519
- IEC 61557-12
- UL 61010-1
- IEC 62052-11
 - IEC 62053-11



PowerLogic™ PM8000 DIN rail meter- underside



PowerLogic™ PM8000 series meter - rear view



PowerLogic™ PM8000 DIN rail mounted meter



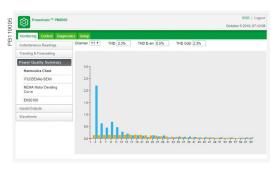
PowerLogic™ PM8000 series meter



PowerLogic[™] PM8000 series waveform web page sample



PowerLogic™ PM8000 series CBEMA web page sample



PowerLogic™ PM8000 series PQ harmonics web page sample

Main characteristics

- Precision metering:
- IEC 61557-12 PMD/SD/K70/0.2 and PMD/SS/K70/0.2 3000m (performance measuring and monitoring functions).
- Class 0.2S accuracy IEC 62053-22, ANSI C12.20 Class 0.2 (active energy).
- Industry leading Class 0.5S accuracy for reactive energy (IEC 62053-24).
- Cycle-by-cycle RMS measurements updated every ½ cycle.
- Full 'multi-utility' WAGES metering support.
- Net metering.
- Anti-tamper protection seals and hardware metrology lock.
- PQ compliance reporting and basic PQ analysis:
 - Monitors and logs parameters in support of international PQ standards,
 - IEC 61000-4-30 Class S (test methods as per IEC 62586-2).
 - Generates onboard PQ compliance reports accessible via onboard web pages:
 - Basic event summary and pass/fail reports, for EN 50160 for power frequency, supply voltage indication, supply voltage dips, short and long interruptions, temporary over voltages, voltage unbalance and harmonic voltage.
 - ITIC (CBEMA) and SEMI curves, with alarm categorization to support further analyses.
 - NEMA Motor Derating curve.
 - Pass/fail report for IEEE 519 for voltage and current harmonic limits.
 - Harmonic analysis:
 - THD on voltage and current, per phase, min/max, custom alarming.
 - Individual harmonic magnitudes and angles on voltage and current, up to the 63rd harmonic.
 - High resolution waveform capture: triggered manually or by alarm, captured waveforms available directly from the meter via FTP in a COMTRADE format.
 - Disturbance detection and capture: sag/swell on any current and voltage channel, alarm on disturbance event, waveform capture with pre-event information.
 - Patented Disturbance Direction Detection: provides indication of the captured disturbance occurring upstream or downstream of the meter; timestamped results provided in the event log, with degree of certainty of disturbance direction.
- Used with Schneider Electric's sophisticated software tools, provides detailed PQ reporting across entire network:
 - EN 50160 report.
 - IEC 61000-4-30 report.
 - IEEE 519 harmonic compliance report.
 - PQ compliance summary.
 - Display of waveforms and PQ data from all connected meters.
 - Onboard web-based waveform viewer.
 - Energy reports for consumption analysis and cost management.
 - WAGES dashboards and reports.
 - EcoStruxure™ Power Events Analysis, including alarm management, sequence of events, and root cause analysis.
- Cybersecurity:
 - Security events logging with Syslog protocol support.
 - HTTPS secure protocol.
 - Ability to enable or disable any communication port and any protocol per port.
 - Anti-tamper protection seals and hardware metrology lock.
 - User accounts with strong passwords.
- Data and event logging:
 - Onboard data and event logging.
 - 512 MB of standard non-volatile memory.



PowerLogic™ PM8000 series meter with remote display



PowerLogic™ PM8000 series meter with option modules



PowerLogic™ PM8000 series with RS-485 4-Wire module



PowerLogic™ PM8000 series with Fiber-Ethernet Module

Main characteristics (contd.)

- No data gaps due to network outages or server downtime.
- Min/Max log for standard values.
- 50 user-definable data logs, recording up to 16 parameters on a cycle-bycycle or other user definable interval.
- Continuous logging or 'snapshot' triggered by setpoint and stopped after defined duration.
- Trend energy, demand and other measured parameters.
- Forecasting via web pages: average, minimum and maximum for the next four hours and next four days.
- Advanced time-of-use capability.
- Security / event log: alarm conditions, metering configuration changes, power outages, firmware download, and user login/logout all timestamped to ±1 millisecond.

Alarming and control:

- 50+ definable alarms to log critical event data, trigger waveform recording, or perform control function.
- Trigger on any condition, with 1/2-cycle and 1-second response time.
- Combine alarms using Boolean logic and to create alarm levels.
- Alarm notification via email.
- In conjunction with Schneider Electric's EcoStruxure™ software, alarms, software alarms, and alarm frequency are categorized and trended enabling sequence of events and root cause analyses.

Usability

- Easy installation and setup:
- Panel and DIN rail mounting options, remote display option.
- Pluggable connectors.
- Free setup application simplifies meter configuration.
- Auto-discovery using DPWS (Device Profile Web Services).
- DHCP for automatic IP address configuration.

Front panel:

- Easy to read color graphic display.
- Simple, intuitive menu navigation with multi-language (8) support.

Flexible remote communications:

- Multiple simultaneously operating communication ports and protocols allow interfacing with other automation systems; (e.g. waveforms, alarms, billing data, etc.) can be uploaded for viewing/analysis while other systems access real-time information.
- Supports Modbus, ION, DNP3, IEC 61850.
- Dual port Ethernet: 10/100BASE-TX; supports IPV4 and IPV6; daisychaining capability removes need for additional switches.
- Fiber-Ethernet option module: Multi-mode 100Base-FX with SC duplex connector
- Secure web interface with HTTPS and TLS 1.2 with support for userprovided certificates.
- Create redundant network loop using Rapid Spanning Tree Protocol (RSTP) and managed Ethernet switches.
- Customize TCP/IP port numbers and enable/disable individual ports.
- RS-485 2-wire connection, up to 115,200 baud, Modbus RTU, ION and DNP3 protocols.
- 4-Wire RS-485 option module: Up to 115,200 baud, Modbus RTU, ION and DNP3 protocols.
- Ethernet to serial gateway with Modbus Master functionality, connecting to 31 downstream serial Modbus devices. Also supports Modbus Mastering over TCP/IP (Ethernet) network.
- Full function web server with factory and customizable pages to access real-time and PQ compliance data.



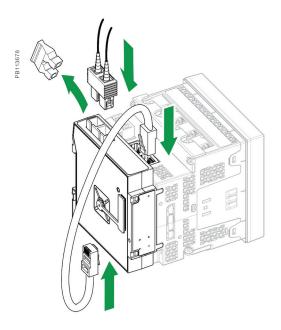
PowerLogic™ I/O module





4-Wire RS-485 Option Module

Fiber-Ethernet Option Module



PowerLogic[™] PM8000 connection with Fiber-Ethernet module

- Time synchronization via:
- GPS clock (RS-485) or IRIG-B (digital input) to ± 1 millisecond.
- Network Time Protocol (NTP/SNTP).
- Precision Time Protocol (PTP IEEE 1588 / IEC 61588).
- Time set function from Schneider Electric software server.

Adaptability

- ION™ frameworks are customizable, scalable applications with objectoriented programming that compartmentalizes functions, and increases flexibility and adaptability.
- Applications include: accessing and aggregating data from downstream Modbus devices over serial or across the network (Modbus TCP/IP), logging and/or processing data through totalization, unit conversion or other calculations, applying complex logic for alarming or control operations, and visualization via webpages.

Standard meter I/O

- 3 digital status/counter inputs.
- 1 KY (form A) energy pulse output for interfacing with other systems.

Advanced Metering Option Modules

- Expanding meter's flexibility with communication and I/O option modules
- Powered from meter base

I/O Expansion Option Modules

Option modules include:

- Digital module:
 - 6 digital status/counter inputs.
- 2 Form C relay outputs, 250 V, 8 A.
- Analog module:
 - 4 analog inputs (4-20 mA; 0-20 mA; 0-30 V).
 - 2 analog outputs (4-20 mA; 0-20 mA; 0-10 V) for interfacing with building management sensors and systems.

Communication Option Modules

Option modules include:

- 4-Wire RS-485 Module (+1):
 - Adds 4-wire support to the meter i.e. eliminating the cost and efforts of rewiring while replacing/retrofitting legacy 4-Wire RS-485 systems
 - Pluggable screw terminal connector
- Fiber-Ethernet Module (+2):
- Provides isolated data transmission through fiber optics up to 2000 m length
- Supports multi-mode 100Base-FX type
- SC duplex connector

Maximum of 4 optional modules in total (Fiber-Ethernet, 4-Wires RS-485, I/O modules) can be connected to the meter. Only 1 Fiber-Ethernet and 1 4-Wire RS-485 option module is supported per meter.

Please refer to the option module *Installation Guides* for more details.

⁽⁺¹⁾ Onboard 2-Wire RS-485 port is disabled with the optional module.

⁽⁺²⁾ Connected to the meter base using Ethernet patch cable (included with the module)

Feature selection

Teature selection			
Commercial reference number	Description		
METSEPM8240	96 x 96 panel mount meter, AC/DC power.		
METSEPM8210	96 x 96 panel mount meter, LV DC power.		
METSEPM8243	DIN rail mount meter, AC/DC power.		
METSEPM8213	DIN rail mount meter, LV DC power.		
METSEPM8244	DIN rail mount meter with remote display, AC/DC power.		
METSEPM8214	DIN rail mount meter with remote display, LV DC power.		
METSEPM82401	MID approved panel mount meter.		
METSEPM82403	RMICAN approved panel mount meter.		
	RMICAN sealed panel mount		
METSEPM82404	meter.		
Accessories			
	meter.		
Accessories	meter. Description Remote display, 3 metre cable, mounting hardware for 30 mm hole (nut & centering pin), mounting hardware for DIN96 cutout (92 x 92 mm)		
Accessories METSEPM89RD96	meter. Description Remote display, 3 metre cable, mounting hardware for 30 mm hole (nut & centering pin), mounting hardware for DIN96 cutout (92 x 92 mm) adapter plate Digital I/O module (6 digital		
Accessories METSEPM89RD96 METSEPM89M2600	meter. Description Remote display, 3 metre cable, mounting hardware for 30 mm hole (nut & centering pin), mounting hardware for DIN96 cutout (92 x 92 mm) adapter plate Digital I/O module (6 digital inputs & 2 relay outputs) Analog I/O module (4 analog		
Accessories METSEPM89RD96 METSEPM89M2600 METSEPM89M0024	meter. Description Remote display, 3 metre cable, mounting hardware for 30 mm hole (nut & centering pin), mounting hardware for DIN96 cutout (92 x 92 mm) adapter plate Digital I/O module (6 digital inputs & 2 relay outputs) Analog I/O module (4 analog inputs & 2 analog outputs) Replacement hardware kit (connectors, screws, retainer		
Accessories METSEPM89RD96 METSEPM89M2600 METSEPM89M0024 METSEPM8HWK	meter. Description Remote display, 3 metre cable, mounting hardware for 30 mm hole (nut & centering pin), mounting hardware for DIN96 cutout (92 x 92 mm) adapter plate Digital I/O module (6 digital inputs & 2 relay outputs) Analog I/O module (4 analog inputs & 2 analog outputs) Replacement hardware kit (connectors, screws, retainer clips, mounting template)		

Feature guide

General			
Use on LV, MV, and HV systems			
Current accuracy		0.1 % reading	
Voltage accuracy		0.1 % reading	
Active energy accuracy		0.2 Class	
Number of samples/cycle or sample fre	equency	256	
Instantaneous rms values			
Current, voltage, frequency		-	
Active, reactive, apparent power	Total and per phase	•	
Power factor	Total and per phase	•	
Current measurement range (autorang	ing)	0.05 - 10 A	
Energy values			
Active, reactive, apparent energy			
Settable accumulation modes		•	
Demand values	Dragant and may		
Current	Present and max.	•	
A _4i;	Present and max.		
Active, reactive, apparent power	values	■.	
Predicted active, reactive, apparent po	wer		
Synchronization of the measurement w			
Setting of calculation mode	Block, sliding	•	
Power quality measurements			
Harmonic distortion	Current and voltage	■.	
	Via front panel and	63	
Individual harmonics	web page Via EcoStruxure™		
	software	127	
Waveform capture		•	
Detection of voltage swells and sags		•	
Fast acquisition	1/2 cycle data	•	
EN 50160 compliance checking		•	
IEEE 519 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	ng pulse output)	1 digital 8 relay 8 analog	
Communication			
2-Wire RS-485 port		1	
Ethernet port		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/HTTPs web server with waveform	viewer	•	
SNMP with custom MIB and traps for a	larms	•	
SMTP email	•		
PTP and NTP time synchronization	•		
FTP file transfer	•		
Option module with 4-Wire RS-485 por			
Option module with Fiber-Ethernet port			

Technical specifications

Electrical characteristics				
Type of measure	ement	True rms to 256 samples per cycle		
	Current & voltage	Class 0.2 as per IEC 61557-12		
	Active Power	Class 0.2 as per IEC 61557-12		
	Power factor	Class 0.5 as per IEC 61557-12		
Measurement	Frequency	Class 0.02 as per IEC 61557-12		
accuracy	Active energy	Class 0.2S IEC 62053-22 Class 0.2 IEC 61557-12, ANSI C12.20 Class 0.2		
	Reactive Energy	Class 0.5S IEC 62053-24*		
	MID Directive	EN 50470-1, EN 50470-1, AnnexB & AnnexD (optional model)		
Display refresh r	ate	1/2 cycle or 1 second		
	Specified accuracy voltage	57 - 400 V L-N / 100 - 690 V L-L		
	Impedance	5 M Ω per phase		
Input-voltage characteristics	Specified accuracy frequency - Frequency	42 to 69 Hz (50/60 Hz nominal)		
	Limit range of operation - frequency	20 to 450 Hz		
	Rated nominal current	1 A (0.2S), 5 A (0.2S) , 10 A (0.2 ANSI)		
Input-current	Specified accuracy current range	Starting Current: 5 mA Accurate Range: 50 mA - 10 A		
characteristics	Permissible overload	200 A rms for 0.5s, non-recurring		
	Impedance	0.0003Ω per phase		
	Burden	0.01 VA max at 5 A		
	AC	90-415 V AC ±10 % (50/60 Hz ±10 %) 90-120 V AC +/- 10% (400 Hz)		
	DC	110-415 V DC ±15 % (20-60 V DC ±10 % for PM8210		
Power supply AC/DC	Ride-through time	100 ms (6 cycles at 60 Hz) min., any condition 200 ms (12 cycles at 60 Hz) typ., 120 V AC 500 ms (30 cycles at 60 Hz) typ., 415 V AC		
	Burden	Typical: 7.7 W / 16 VA at 230 V (50/60 Hz) Fully optioned: max. 18 W / 40 VA at 415 V (50/60 Hz)		
Power supply	DC	20 to 60 V DC ±10 %		
LV DC	Burden	Fully optioned: max. 18 W at 18 to 60 V DC		
	Meter Base Only	3 digital inputs (30 V AC/60 V DC) 1 form A (KY) solid state digital output (30 V AC/60 V DC, 75 mA)		
Input/outputs	Optional	Digital - 6 digital inputs (30 V AC / 60 V DC) wetted + 2 form C relay outputs (250 V AC, 8 A)		
		Analog - 4 analog inputs (4-20 mA, 0-30 V DC) + 2 analog outputs (4-20 mA, 0-10 V DC)		
Mechanical ch	aracteristics			
Weight		Integrated Display Model 0.581 kg DIN rail mounted Model 0.528 kg IO modules 0.140 kg Remote display 0.300 kg		
IP degree of protection		IP 54, UL type 12: Panel mount and Remote display, front IP 30: Panel mount rear, DIN rail mount, I/O modules		
Excellent quality		ISO 9001 and ISO 14000 certified manufacturing		
Dimensions	Panel mount model	96 x 96 x 77.5 mm		
		90.5 x 90.5 x 90.8 mm		
Dimensions	DIN model	30.0 X 30.0 X 30.0 Hill		
Dimensions	Remote display	96 x 96 x 27 mm		

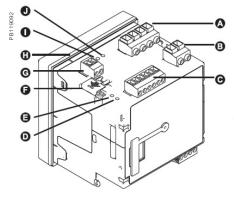
Version: 1.0 - 21/10/2021 PLSED310058EN

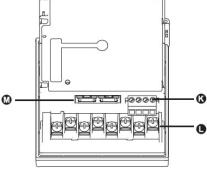
1 1110000 00110	
Environmental conditions	
Operating temperature	-25 °C to 70 °C
Remote Display Unit	-25 °C to 60 °C
Storage temperature	-40 °C to 85 °C
Humidity rating	5 % to 95 % non-condensing
Installation category	III
Operating altitude (maximum)	3000 m above sea-level
Electromagnetic compatibility	
EMC standards	IEC 62052-11 and IEC 61326-1
Immunity to electrostatic discharge	IEC 61000-4-2
Immunity to radiated fields	IEC 61000-4-3
Immunity to fast transients	IEC 61000-4-4
Immunity to surges	IEC 61000-4-5
Immunity to conducted disturbances	IEC 61000-4-6
Immunity to power frequency magnetic fields	IEC 61000-4-8
Immunity to conducted disturbances, 2-150kHz	CLC/TR 50579
Immunity to voltage dips & interruptions	IEC 61000-4-11
Immunity to ring waves	IEC 61000-4-12
Conducted and radiated emissions	EN 55022, EN 55011, FCC part 15 Class B, EN55011, EN55022 Class B, ICES-003 Class B
Surge withstand Capability (SWC)	IEEE / ANSI C37.90.1
Safety	
Safety Construction	IEC/EN 61010-1 ed.3, CAT III, 400 V L-N / 690 V L-L UL 61010-1 ed.3 and CSA-C22.2 No. 61010-1 ed.3, CAT III, 347 V L-N / 600 V L-L IEC/EN 62052-11, protective class II
Communication	
Ethernet to serial line gateway	Communicates directly with up to 31 unit load devices
Web server	Customisable pages, new page creation capabilities, HTML/XML compatible
Serial port RS-485	Baud rates of 2400 to 115200, pluggable screw terminal connector
Ethernet port(s)	2x 10/100BASE-TX, RJ45 connector (UTP)
Protocol	Modbus, ION, DNP3, IEC 61850, HTTPS, FTP, SNMP, SMTP, DPWS, RSTP, NTP, PTP, NTP/SNTP, GPS, IPv4 /IPv6, DHCP, Syslog protocols
Communication Option Modules	
Optional 4-Wire RS-485 serial port	Baud rates of 2400 to 115200, pluggable screw terminal connector
Optional Fiber-Ethernet port	Ethernet patch cable from base meter, multi-mode 100Base-FX, SC duplex connector
Firmware characteristics	
High-speed data recording	Down to 1/2 cycle interval burst recording, stores detailed characteristics of disturbances or outages. Trigger recording by a user-defined setpoint, or from external equipment
Harmonic distortion	Up to 63rd harmonic (127th via Schneider Electric software) for all voltage and current inputs
Sag/swell detection	Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on voltage tolerance curves per phase triggers for waveform recording, control
Disturbance direction detection	Determine the location of a disturbance more quickly and accurately by determining the direction of the disturbance relative to the meter. Analysis results are captured in the event log, along with a timestamp and confidence level indicating level of certainty
Instantaneous	High accuracy of standard speed (1s) and high-speed (1/2 cycle) measurements, including true rms per phase and total for: voltage, current, active power (kW), reactive power (kvar), apparent power (kVA), power factor, frequency, voltage and current unbalance, phase reversal
Load profiling	Channel assignments (800 channels via 50 data recorders) configurable for any measurable parameter, including historical trend recording of energy, demand, voltage, current, power quality, or any measured parameter. Trigger recorders based on time interval, calendar schedule, alarm/event condition, or manually
Trend curves	Historical trends and future forecasts to better manage demand, circuit loading, and other parameters. Provides average, min, max and standard deviation every hour for last 24 hours, every day for last month, every week for last 8 weeks and every month for last 12 months
Waveform captures	Simultaneous capture of all voltage and current channels, sub-cycle disturbance capture, ability to record from 210 cycles at 256 sample per cycle to over 2880 cycles at 16 points per cycle with user selectable sampling speed as well as pre- and post-trigger length
Alarms	Threshold alarms: adjustable pickup and dropout setpoints and time delays, numerous activation levels possible for a given type of alarm, user-defined or automatic alarm threshold settings, user-defined priority levels (optional automatic alarm setting)
Advanced Time of Use (TOU)	6 seasons; 3 different day types: weekend, weekday, and holiday; up to 8 tariffs per day type

Life Is On Schneider

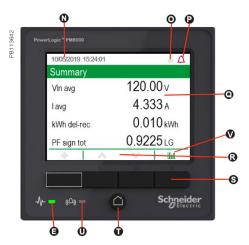
Firmware characteristics (contd.)		
Advanced security	Up to 50 users with unique access rights. Perform resets, time sync, or meter configurations based on user privileges	
Memory	512 MB	
Firmware update	Update via the communication ports	
Display characteristics		
Integrated or Remote display	320 x 240 (1/4 VGA) Color LCD, configurable screens , 5 buttons and 2 LED indicators (alarm and meter status)	
Languages	English, French, Spanish, Russian, Portugese, German, Italian, Chinese	
Notations	IEC, IEEE	
The HMI menu includes		
Alarms	Active alarms, historic alarms (50+ alarms)	
Basic Reading	Voltage, current, frequency, power summary	
Power	Power summary, demand, power factor	
Energy	Energy total, delivered, received	
Events	Timestamped verbose event log	
Power Quality	EN 50160, IEEE 519, harmonics, phasor diagrams	
Inputs/Outputs	Digital inputs, digital outputs, analog inputs, analog outputs	
Nameplate	Model, serial and FW version	
Custom Screens	Build your own metrics	
Setup Menu	Meter setup, communications setup, display setup, date/time/clock setup, alarm setup, language setup, time of use setup, resets, password setup	

PM8000 series parts





000000

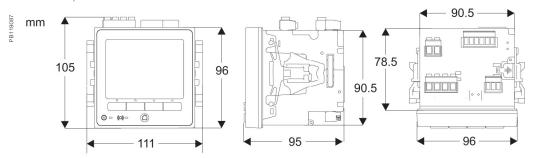


- A Voltage inputs
- **B** Control power
- © Digital inputs
- Revenue lock LED (green)
- E Status LED (green/red)
- Revenue lock switch
- G Digital output
- Sealing gasket
- Infrared energy pulsing LED
- Energy pulsing LED
- **K** RS-485
- Current inputs
- M Ethernet (2)
- N Date/time
- Revenue lock icon

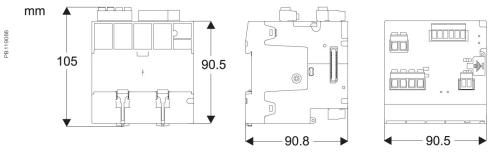
- P Alarm icon
- Q Display
- R Navigation icons
 - **∧** Up
 - **₩** Down
 - Select
 - Cancel

 - More
- S Navigation buttons
- T Home button
- Alarm LED (red)
- W Bar graph

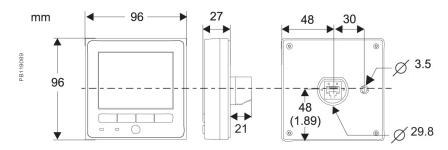
PM8000 panel mount meter dimensions



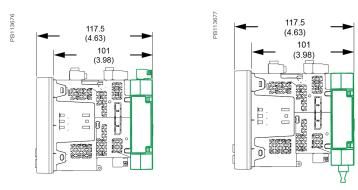
PM8000 DIN rail mount meter dimensions



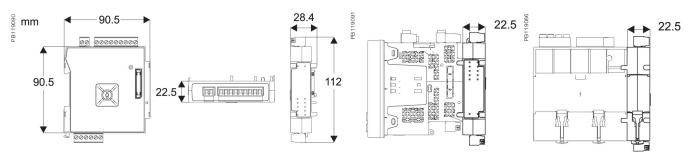
PM8000 remote display dimensions



PM8000 with communication option modules



PM8000 with I/O modules dimensions



Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.



www.se.com

Schneider Electric Industries SAS 35, Rue Joseph Monier CS 30323 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439 Capital social 928 298 512 € www.se.com

October 2021 PowerLogic™ PM8000 Series

PLSED310058EN

© 2021 - Schneider Electric. All rights reserved. All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies. As standards, specifications and designs develop from time to time, please ask for confirmation of the information given in this document.

Over 75 % of Schneider Electric products have been awarded the Green Premium ecolabel.

