Power and energy meters PowerLogic® PM800







Power Meter Series 800 Functions and characteristics



The PowerLogic® Power Meter Series 800 offers all the high-performance measurement capabilities needed to monitor an electrical installation in a compact 96 x 96 mm unit. Its easy-to-read display shows all three phases and neutral at the same time.

Standard features of the Series 800 Power Meters include an RS485 Modbus communication port (ASCII and RTU), digital input and digital output, THD metering, alarming and input metering capability. The PM820 and PM850 also offer custom onboard logging and individual current and voltage harmonic readings. The PM850 includes waveform capture. The PM870 is the first compact meter to offer voltage and current disturbance (sag and swell) detection and configurable waveform capture.

Applications

Panel instrumentation

■ Sub-billing, cost allocation and utility bill verification

- Remote monitoring of an electrical installation
- Mid-range power quality analysis and energy management (the PM870 includes sag and swell detection)
- Utility contract optimization and load preservation

Characteristics

Easy to install

Mounts with only two clips. No tools required.

Direct connect voltage inputs

No need for potential transformers (PTs) up to 600 V AC.

Easy to operate

Intuitive navigation with self-guided, language-selectable menus.

System status at a glance

Large, anti-glare display with back-light provides summary screens with multiple values. Bar charts graphically represent system loading and I/O.

Custom alarming with time stamping

Over 50 alarm conditions, including over or under conditions, digital input changes, phase unbalance and more. Boolean logic can be used to combine up to four alarms.

Power quality analysis

The Power Meter Series 800 supports EN 50160 power quality evaluation. The PM850 includes waveform capture. The PM870 features voltage and current disturbance (sag and swells) detection and configurable waveform capture. And both the PM850 and PM870 include current and voltage individual harmonic magnitudes and angles that help troubleshoot and prevent power quality problems.

Extensive on-board memory

Billing (energy and demand), power quality and alarm logs are stored in non-volatile memory.

IEC 62053-22 class 0.5S for real energy

Accurate energy measurement for sub-billing and cost allocation.

Trend curves and short-term forecasting (PM850 and PM870)

Trend and compare energy and demand readings. Forecast upcoming values to anticipate and manage future energy costs.

WAGES capability

Five channels available on all models for input metering of various utilities (WAGES: water, air, gas, electricity, steam).

Modular and upgradeable

Easy-to-install option modules (memory and I/O) and downloadable firmware for enhanced meter capabilities.

Remote display

The optional remote display can be mounted as far as 10 m from the metering unit. The adapter includes an additional RS485/RS232 communication port.

Serial and Ethernet communications

All modules include an RS-485 port supporting Modbus protocol (ASCII and RTU). An optional module provides Ethernet Modbus TCP/IP communications with e-mail on alarm, full function web server and Ethernet-to-serial line gateway functionality.

Functions and characteristics



Remote display adapter with remote display and cable



Power Meter PM800 with ECC module

Description	
Description	
Power Meter with Integrated Display	
PM810 power meter with integrated display, basic instrumentation, THD, alarming	PM810MG
PM820 power meter with integrated display, basic instrumentation, THD,	PM820MG
alarming, 80 kb logging	
PM850 power meter with integrated display, basic instrumentation, THD,	PM850MG
alarming, 800 kb logging, waveform capture	51/0701/0
PM870 power meter with integrated display, basic instrumentation, THD, alarming,	PM870MG
800 kb logging, configurable waveform capture and disturbance detection	
Power Meter Unit (No Display)	
PM810 power meter unit only, no display	PM810UMG
PM820 power meter unit only, no display	PM820UMG
PM850 power meter unit only, no display	PM850UMG
PM870 power meter unit only, no display	PM870UMG
Optional modules	
Ethernet communication module provides a 10/100BaseTx UTP port, an RS-485	PM8ECC
Modbus serial master port, Ethernet-to-serial line gateway functionality, and an	
embedded web server	
2 digital outputs (relays), 2 digital inputs	PM8M22
2 digital outputs (relays), 6 digital inputs	PM8M26
2 digital outputs (relays), 2 digital inputs, 2 analog outputs, 2 analog inputs	PM8M2222
PM810 optional logging module for on-board data recording, uses a nonvolatile,	PM810LOG
battery-backed internal clock	
Parts and accessories	
Remote display and adapter with a 3.55 m (12 ft) cable	PM8RDMG
Remote display adapter only	PM8RDA
RJ11 Extender kit to mount RJ11 jack in panel door	RJ11EXT
(for use with PM800, CM3000, and CM4000 series meters)	
Cable for remote display adapter 1.25 m (4 ft)	CAB4
Cable for remote display adapter 3.65 m (12 ft)	CAB12
Cable for remote display adapter 9.14 m (30 ft)	CAB30

Application Meter and integrated display mounted on door

remote display adapter (PM8RDA).

Use the meter with an integrated display when door space is available and PM810MG PM820MG when voltage usage is within the local regulation limits. PM850MG

PM870MG
PM810UMG
PM820UMG
PM850UMG
PM870UMG

When the meter is used without a display, configuration of the communications port is limited to the default (address 1, 9600 baud, parity

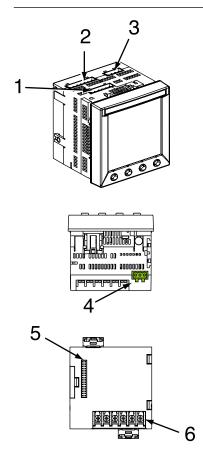
even). Requires System ManagerTM Software (SMS) to read data



even). Requires System Manager I M Software (SMS) to read data.	
Remote display PB101554	
Meter and remote display kit	
Conveniently packaged kit consist of a base meter (810, 820, or 850) with a remote	PM810RDMG
display, remote display adapter, and remote display cable 3.6 m (12 ft).	PM820RDMG
	PM850RDMG
	PM870RDMG
	PB101552
Remote display adapter alone	
When added to the front of the base unit (PM8xxU), the adapter brings two	PM8RDA
additional communication ports: one for the remote display and one 4-wire/	PB101555
2-wire RS485/RS232.	
Remote display and cable	
Use this combination of remote display, adapter, and 3.6 m (12 ft) cable to	PM8RDMG
equip a base meter unit for use with a remote display. In addition, the	
display can be carried from meter to meter, enabling you to purchase one	
display for multiple meters. Each base unit meter must be equipped with a	



Functions and characteristics



Power Meter Series 800.

- 1 Control power supply connector.
- 2 Voltage inputs.
- 3 Digital input/output.
- 4 RS485 port.
- 5 Option module connector.
- 6 Current inputs.

Selection guide		PM810	PM820	PM850	PM870
General					
Use on LV and HV systems					
Current and voltage accuracy		0.1 %	0.1 %	0.1 %	0.1 %
Active energy and power accuracy		0.5 %	0.5 %	0.5 %	0.5 %
Number of samples per cycle		128	128	128	128
Instantaneous rms values		120	120	120	120
Current, voltage, frequency					
Active, reactive, apparent power	Total and per phase	-	-	-	-
Power factor	Total and per phase			-	
Energy values		_	_	_	-
Active, reactive, apparent energy					
Configurable accumulation mode		-	-	-	-
Demand values		-	-	_	-
Current	Present max. values				
Active, reactive, apparent power	Present max. values	-	-	-	-
Predicted active, reactive, apparent p		-	-	-	-
Synchronisation of the measurement		-	-	-	-
Demand calculation mode	Block, sliding	-	-	-	-
Other measurements	Blook, silaing	-	-	-	-
Hour counter			-	-	
Power-quality measurements	1	-	-	-	-
Harmonic distortion	Current and voltage				
Individual harmonics	Current and voltage	31 (1)	31	63	63
Waveform capture	ourion and voltago	-	-		
Sag and swell detection		-	-	-	-
Data recording					-
Min/max of instantaneous values					
Data logs		-	2	4	4
Event logs					
Trending / forecasting		-	-	-	-
Alarms		-	-	-	-
Time stamping		-	-	-	-
Display and I/O		-	-	-	-
White backlit LCD display			-		
Multilingual: English, French, Spanish		-	-	-	-
Digital input		1	1	1	1
Digital output or pulse output		1	1	1	1
nput metering capability (number of channels)		5	5	5	5
Communication		5	5	5	5
RS485 port		2-wire	2-wire	2-wire	2-wire
Modbus protocol		2-wire	2-wire	2-wire	2-wire
RS232/RS485, 2- or 4-wire Modbus I			-	-	-
(with addition of PM8RDA module)					

Optional modules selection guide

The PM800 can be fitted with 2 optional modules, unless otherwise indicated (2)

PM8ECC module

10/100BaseTx UTP port, RS-485 Modbus serial master port, Ethernet to serial line gateway, embedded web server

PM8M22 module

2 digital inputs for position monitoring

PM8M26 module

2 digital outputs (relays) for control or alarms

6 digital inputs for position monitoring or pulse counting

This module includes a 24 V DC power supply that can be used to bias the digital inputs PM8M2222 module

2 digital outputs (relays) for control or alarms

2 digital inputs for position monitoring or pulse counting

2 analog outputs 4-20 mA

2 analog inputs 0-5 V or 4-20 mA

(2) It is not possible to mount two PM8M22 modules. If the supply voltage of the PM800 is less than 208 V, only one PM8M2222 module can be mounted.

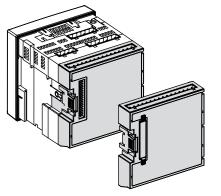
When using two PM8M2222 the temperature should not exceed 25°C

Functions and characteristics



Electrical ch			True readue to the 62rd harmonia		
ype of measurement			True rms up to the 63rd harmonic On three-phase AC system (3P, 3P + N)		
			128 samples per cycle		
			On single phase AC system (L-L, L-N, L-L+N)		
Measurement	Current and \	voltage	± 0.075 % of reading + ± 0.025 % of full scale		
accuracy	Power	PM810	± 0.5 % of reading + ± 0.025 % of full scale		
accuracy	1 01101	PM820/PM850			
	Frequency		±0.01 Hz from 45 to 67 Hz		
			±0.01 Hz from 350 to 450 Hz		
	Active energy	/	IEC 62053-22 and ANSI C12.20 Class 0.5S		
	Reactive ener	rgy	IEC 62053-23 Class 2		
Data update rate			1s		
Input-voltage	Measured voltage		0 to 600 V AC (direct L-L)		
characteristics			0 to 347 V AC (direct L-N)		
			0 to 3.2 MV AC (with external VT)		
	Metering ove	r-range	1.5 Un		
	Impedance		2 MW (L-L) / 1 MW (L-N)		
	Frequency measurement		45 to 67 Hz and 350 to 450 Hz		
	range	<u> </u>			
Input-current	CT ratings	Primary	Adjustable from 5 A to 32.767 kA		
characteristics	Moooureme	Secondary	1 A or 5 A 0 to 10 A		
	Measurement input range Permissible overload		15 A continuous		
	I CITIISSIDIE O	wenuau	50 A for 10 seconds per hour		
			500 A for 1 second per hour		
	Impedance		< 0.1 W		
	Load		< 0.15 VA		
Control Power	AC		110 to 415 ±10 % V AC, 11 VA		
	DC		125 to 250 ±20 % V DC, 6 W		
	Ride-through	time	45 ms at 120 V AC		
	Static pulse o		Static output (6 to 220 ±10 % V AC or 3 to 250		
Input/outputs			10.0()(DO 100 - A + 05 °O)		
nput/outputs PM800			± 10 % V DC, 100 mA max. at 25 °C)		
			± 10 % V DC, 100 mA max. at 25 C) 1350 V rms isolation		
	Digital input				
	Digital input		1350 V rms isolation		
PM800		s 0 to 240 V AC c	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden		
Options	Relay outputs		1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour		
PM800 Options PM8M22	Relay outputs		1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC		
Options	Relay outputs		1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC		
PM800 Options PM8M22	Relay outputs Digital inputs Relay outputs	s 0 to 240 V AC, (1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour		
PM800 Options PM8M22	Relay outputs Digital inputs Relay outputs Digital inputs	s 0 to 240 V AC, (1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max.		
PM800 Options PM8M22 PM8M26	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal	s 0 to 240 V AC, (supply	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs)		
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PM800 Options PM8M22 PM8M26	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs	s 0 to 240 V AC, (supply s 0 to 240 V AC, (1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC		
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PM800 Options PM8M22 PM8M26 PM8M2222	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA		
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PM800 Options PM8M22 PM8M26 PM8M2222 Switching frequency Mechanical endurare Electrical endurance installation category Mechanical cha	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M22 PM8M26 & PM8M2222 nce (digital output of options aracteristics	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) S	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF)		
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PM800 Options PM8M22 PM8M26 PM8M22222 Switching frequency Mechanical endurance Installation category Mechanical cha Weight (meter + inter Weight (meter + inter	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M26 & PM8M2222 nce (digital output of options aracteristics agrated display	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s /(0.6 kg 9)	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 W AC		
PM800 Options PM8M22 PM8M26 PM8M2622 Switching frequency Mechanical endurance Installation category Mechanical cha Weight (meter + inte IP degree of protect	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M26 & PM8M2222 noce (digital output of options aracteristics egrated display tion (IEC 60525	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s //0.6 kg 9) pns	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W duty cycle (500 ms ON/OFF) 1 Hz, 50 W		
PM800 Options PM8M22 PM8M26 PM8M2622 Switching frequency Mechanical endurance Installation category Mechanical cha Weight (meter + inte IP degree of protect	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M222 PM8M226 & PM8M2222 nee (digital output of options aracteristic: egrated display tion (IEC 60525 Without option	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s //0.6 kg 9) pns	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 15 million operations 250000 commutations at 2 A / 250 V AC II (1) IP52 front display, IP30 meter body 96 x 96 x 70 mm (behind mounting surface)		
PM800 Options PM8M22 PM8M26 PM8M26 PM8M22222 Switching frequency Mechanical endurar Electrical endurar Electrical endurar Mechanical char weight (meter + inte P degree of protect Dimensions Environmental	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog outpu Analog inputs PM8M22 PM8M222 PM8M226 PM8M2222 nee (digital output of options aracteristic: egrated display tion (IEC 60525 Without option With 1 option conditions	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s //0.6 kg 9) pns	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 15 million operations 250000 commutations at 2 A / 250 V AC II (1) IP52 front display, IP30 meter body 96 x 96 x 70 mm (behind mounting surface)		
PM800 Options PM8M22 PM8M26 PM8M266 PM8M22222 Switching frequency Mechanical endurar Electrical endurar Electrical endurar Electrical endurar Mechanical cha Weight (meter + inte P degree of protect Dimensions	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog outpu Analog inputs PM8M22 PM8M222 PM8M226 PM8M2222 nee (digital output of options aracteristic: egrated display tion (IEC 60525 Without option With 1 option conditions	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s ()0.6 kg 9) ons	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 15 million operations 250000 commutations at 2 A / 250 V AC II (1) IP52 front display, IP30 meter body 96 x 96 x 70 mm (behind mounting surface) 96 x 96 x 90 mm (behind mounting surface)		
PM800 Options PM8M22 PM8M26 PM8M26 PM8M22222 Switching frequency Mechanical endurar Electrical endurar Electrical endurar Mechanical char weight (meter + inte P degree of protect Dimensions Environmental	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog outputs Analog outputs PM8M22 PM8M222 PM8M222 PM8M222 PM8M222 PM8M222 Magnet digital outputs of options aracteristics egrated display tion (IEC 60525 Without option With 1 option conditions	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s ()0.6 kg 9) ons n Meter Display	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF)		
PM800 Options PM8M22 PM8M26 PM8M262 PM8M2222 Switching frequency Mechanical endurarce Installation category Mechanical char Weight (meter + inte IP degree of protect Dimensions Environmental Operating temperat	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog outputs Analog outputs PM8M22 PM8M222 PM8M222 PM8M222 PM8M222 PM8M222 Magnet digital outputs of options aracteristics egrated display tion (IEC 60525 Without option With 1 option conditions	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s ()0.6 kg 9) ons n Meter Display	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 The sto width of the store st		
PM800 Options PM8M22 PM8M26 PM8M26 PM8M2222 Switching frequency Mechanical endurarce Installation category Mechanical char Weight (meter + inte P degree of protect Dimensions Environmental Operating temperature	Relay outputs Digital inputs Relay outputs 24 V internal Relay outputs 24 V internal Relay outputs Digital inputs Analog outputs Analog outputs PM8M22 PM8M222 PM8M222 PM8M222 PM8M222 PM8M222 Magnet digital outputs of options aracteristics egrated display tion (IEC 60525 Without option With 1 option conditions	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s ()0.6 kg 9) ons n Meter Display	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC, 10 mA max. (feeds 8 digital inputs) 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF)		
PM800 Options PM8M22 PM8M26 PM8M262 PM8M2222 Switching frequency Mechanical endurance Installation category Mechanical churance Installation category Installation category Installati	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M26 & PM8M2222 nce (digital output of options aracteristic: egrated display tion (IEC 60525 Without option With 1 option conditions arure PM8M2	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s //0.6 kg 9) ons 1 Meter Display lay	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 to 150 V AC/DC, 2 mA max. 4-20 rA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) <td< td=""></td<>		
PM800	Relay outputs Digital inputs Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs 24 V internal Relay outputs Digital inputs Analog output Analog inputs PM8M22 PM8M26 & PM8M2222 nce (digital output of options aracteristic: egrated display tion (IEC 60525 Without option With 1 option conditions arure PM8M2	s 0 to 240 V AC, (supply s 0 to 240 V AC, (its s Adjustable from Input/output Input Output puts) ts) s //0.6 kg 9) ons 1 Meter Display lay	1350 V rms isolation 24 to 125 V AC/DC (±10 %) 5 mA max. burden r 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 19 to 30 V DC, 5 mA max. / 24 V DC 0 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 - 30 V DC 2 A rms, 5 A max. for 10 seconds per hour 20 to 150 V AC/DC, 2 mA max. 20 to 150 V AC/DC, 2 mA max. 4-20 mA, burden 0 to 600 W max. 0 to 5 V DC or 4-20 mA 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 Hz, 50 % duty cycle (20 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 1 Hz, 50 % duty cycle (500 ms ON/OFF) 25 million operations 250000 commutations at 2 A / 250 V AC II (1) IP52 front display, IP30 meter body 96 x 96 x 70 mm (behind mounting surface)		

Functions and characteristics



PM800 Series with I/O module.

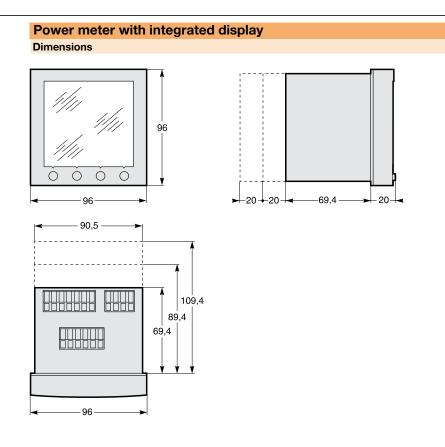


PM800 Series display screen showing bar graphs.

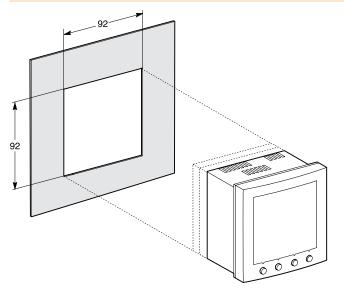
Electromagnetic con				
Electrostatic discharge	Level III (IEC 61000-4-2)			
mmunity to radiated fields	Level III (IEC 61000-4-3)			
mmunity to fast transients	Level III (IEC 61000-4-4)			
mmunity to impulse waves	Level III (IEC 61000-4-5)			
Conducted immunity	Level III (IEC 61000-4-6)			
mmunity to magnetic fields	Level III (IEC 61000-4-8)			
mmunity to voltage dips	Level III (IEC 61000-4-11)			
Conducted and radiated	CE industrial environment/FCC part 15 class	A		
emissions	EN 55011			
Harmonics emissions	IEC 61000-3-2			
licker emissions	IEC 61000-3-3			
Safety				
Europe	C€, as per IEC 61010-1 ⁽¹⁾			
J.S. and Canada	UL508			
Communication				
RS 485 port	2-wire, up to 38400 baud, Modbus			
Firmware characteristics				
Data Logs	PM820, PM850 and PM870:			
	- 1 billing log			
	- 1 customizable log			
	PM850 and PM870 only: 2 additional custor	n loas		
/in./max.	Worst min. and max. with phase indication for	-		
Min./max.	Currents, Voltage unbalance, and THD. Min.			
	for power factor (True and Displacement), power (P, Q, S) and			
	frequency			
One event log	Time stamping to 1 second			
rend curves	Four trend curves: 1 minute, 1 hour, 1 day a	nd 1 month. Min./max./		
PM850 and PM870 only)	avg. values recorded for eight parameters:			
	- every second for one minute for the 1-minute curve			
	 every minute for one hour for the 1-hour curve 			
	 every hour for one day for the 1-day curve 			
	- every day for one month for the 1-month c	urve		
Energy per interval	Up to three user-defined intervals per day			
	Available for all models (the PM810 requires t	he PM810LOG module)		
orecasting	Forecasting of the values for the trended par	ameters for the next		
PM850 and PM870 only)	four hours and next four days			
M850 waveform capture	Triggered manually or by alarm, 3-cycle, 128	samples/cycle on 6		
	user configurable channels			
M870 enhanced waveform	From 185 cycles on 1 channel at 16 samples	s per cycle up to 3		
apture	cycles on 6 channels at 128 samples per cy	cle		
Narms	Adjustable pickup and dropout setpoints and	d time delays,		
	numerous activation levels possible for a given type of alarm			
	Historical and active alarm screens with time stamping			
	Four priority levels			
	Response time: 1 second			
	Boolean combination of four alarms is possible using the operators			
	NAND, OR, NOR and XOR on PM850 and PM870			
	Digital alarms: status change of digital inputs			
lemory available for logging	80 kbytes in PM820	>		
and waveform capture (2)	800 kbytes in PM850 and PM870			
Firmware update				
innivare update	Update via the communication ports	com websito		
	File download available free from powerlogic			
Bar graphs	Graphical representation of system performa	ance		
Display characteristics				
anguages	English, French, Spanish			
Display screen	Back-lit white LCD (6 lines total, 4 concurren	,		
Dimensions	Display screen viewable area	73 x 69 mm		
	Integrated display Overall	96 x 96 mm		
	Depth meter + display	69.4 mm + 17.8 m		
	Remote display Overall	96 x 96 x 40 mm		
	Meter with remote display adapter	0.81 kg		
Neight	motor marromoto alopiay adapter	oloring		

(2) Waveform capture with PM850 and PM870 only.

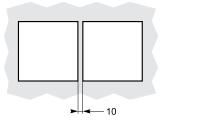
Installation and connection

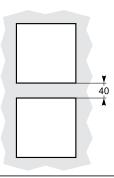


Front-panel mounting (meter with integrated display)

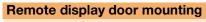


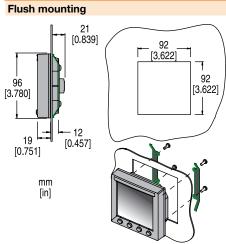
Spacing between units



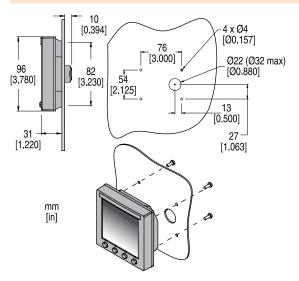


Installation and connection



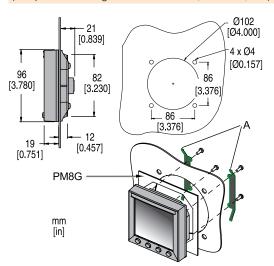


Surface mount

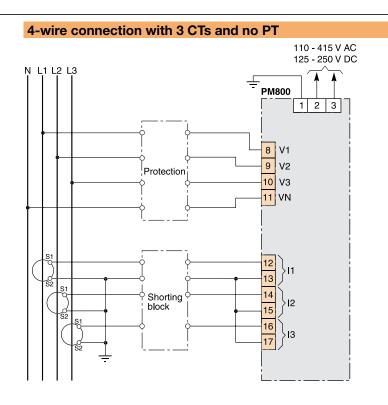


For mounting in a Ø102 cutout

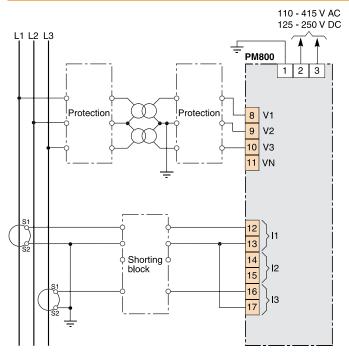
(to replace an analogue device: ammeter, voltmeter, etc.)



Installation and connection

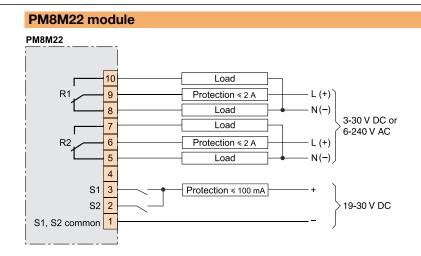


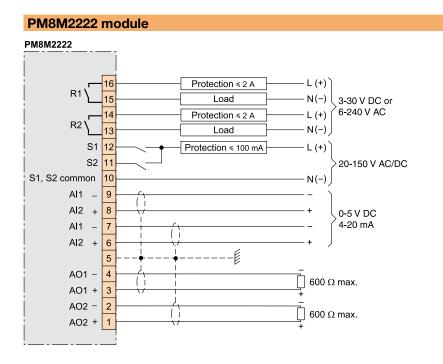
3-wire connection with 2 CTs and 2 PTs



Note: Other types of connection are possible. See product documentation.

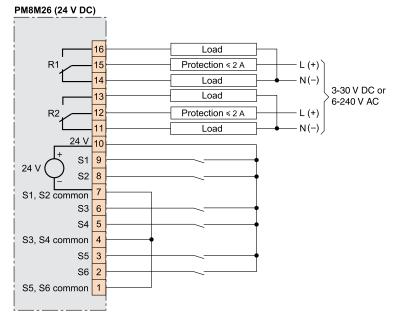
Installation and connection

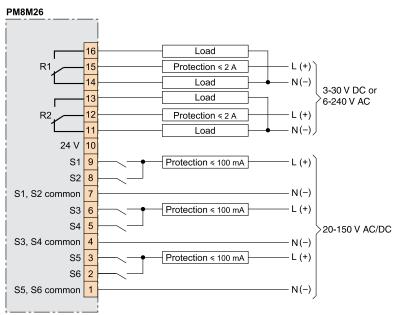




Installation and connection

PM8M26 module internal 24 V DC power supply

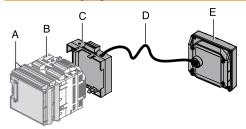




PM8M26 module external power supply

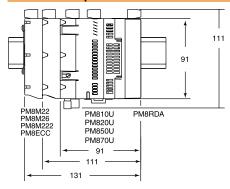
Installation and connection

Remote display kit

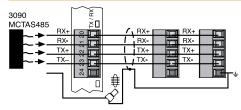


- A. Optional modules
- B. Power meter 800 series (base unit C. Remote display adapter
- D. CAB12 cable
- E. Remote display (rear view)

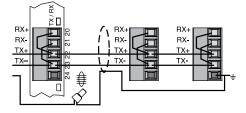
Dimension (meter with I/O and remote display adapter)



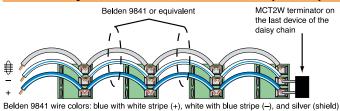
4-wire connection (RS 485) of remote display adapter



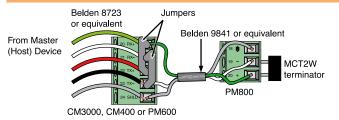
2-wire connection (RS 485) of remote display adapter

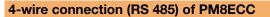


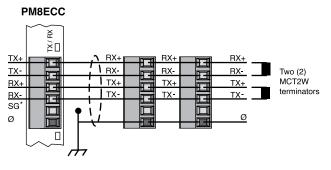
2-wire daisy-chain connection of devices (RS 485)



4-wire daisy-chain connection of devices, connected to 2-wire Modbus or Jbus connection of devices (RS 485)

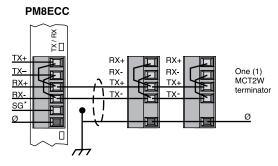






* Note: SG = Signal Strength

2-wire connection (RS 485) of PM8ECC



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