

PM-PROGRESS



Multifunction power metering

- DIN 96 enclosure
- Easy panel mounting
- Backlit LCD screen
- Plug-in option modules
- True RMS measurement
- Programmable CT ratio
- User programmable system configuration
- Cost effective
- Measures 17 electrical parameters
- Including Total Harmonic Distortion
- Measurement up to the 31st harmonic
- Supply Power: 110 - 440 VAC



Adapted to your needs

The PM-Progress can be installed by different ways to suit to your Power Plants:

- 1 phase, 2 wire
- 3 phase, 3 wire
- 3 phase, 4 wire

Plug-in option module

PM-Progress features two output option ports, it allows you a response to specific needs :

- Pulsed relay
- Communication port

User friendly interface

The intuitive interface allows to the user a quick and an easy access to all menus:

- 4 buttons
- 15 screens
- intuitive interface for users

Quality Product

To ensure a quality product, PM-Progress fulfills all the important requirements:

- IEC 61326
- IEC 61010-1
- IEC 62053-21
- RoHS compliant



TECHNICAL SPECIFICATION

BASIC MODULE PARAMETERS		
INPUT CURRENT	Input Current	0 ~ 5A
	Max. continuous input over-load current	120% of nominal
	Max. short duration input current	2 x range maximum (1 second application repeated 5 times at 5 minute intervals)
	Power consumption	< 0.2 VA per phase
VOLTAGE INPUT	Input Voltage	100 ~ 289 VAC (L-N), 173 ~ 500 VAC (L-L)
	System frequency	45 ~ 66 Hz
	Max. continuous input over-load voltage	120% of nominal
	Max. short duration input voltage	2 x range maximum (1 second application repeated 5 times at 5 minute intervals)

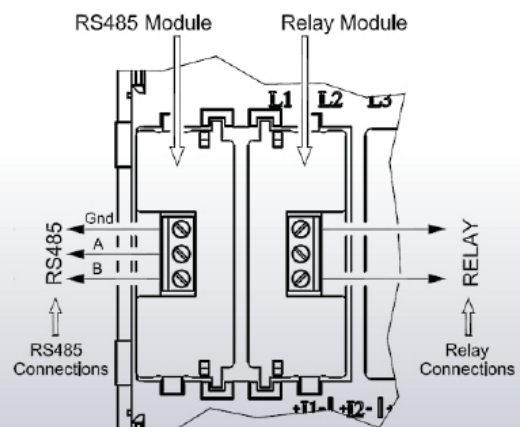
OTHER INFORMATION		
OTHER PARAMETERS	Supply Power (AUX)	110-400 VAC +/-10% 120-350 VDC +/-20%
	Display module	LCD Display 76mm x 66mm (luminosity adjustable)
	Temp. drifting factor	< 100 PPM/°C
	Withstand Voltage (Input against output)	2500 V/min
	Total power consumption	< 8 VA
	Operation temperature	-10°C ~ 55°C
	Storage temperature	-20°C ~ 70°C
	Relative humidity	0 ~ 90 %RH
	Weight	300 g
	Dimensional Size: Front panel	96x96x59.1 mm

MEASUREMENT ACCURACY

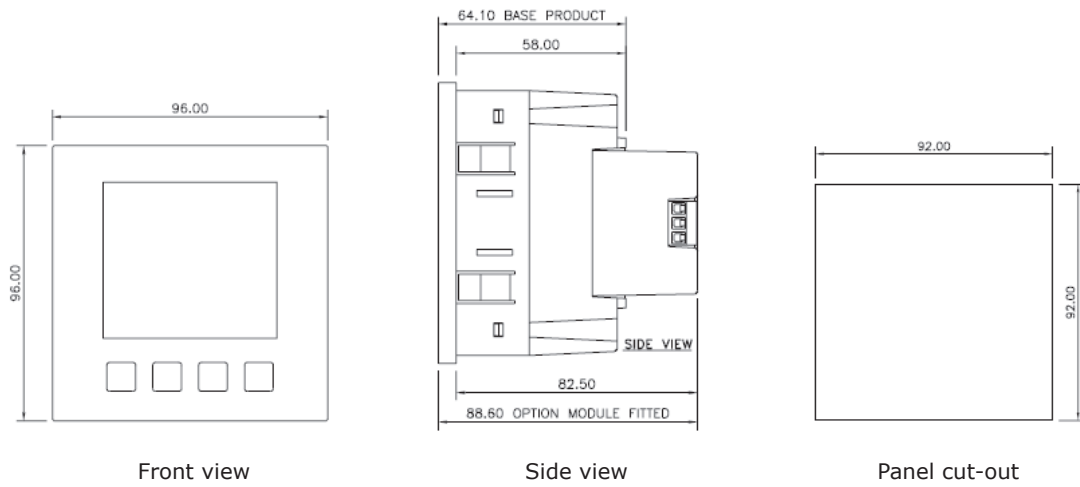
PARAMETERS	DISPLAY
Voltage	0.5 %
Current	0.5 %
Neutral current calculated (A)	4%
Power factor	1%
Frequency	0.1 Hz
Active Power	+/- 1% of range
Reactive Power	+/- 1% of range
Apparent Power	+/- 1% of range
Active Energy	Class 1 (IEC 62053-21)
Reactive Energy	+/- 1% of range
THD	1% up to 31st harmonic
Response time	1 sec

OPTIONAL MODULES

OPTIONAL MODULES	ORDER CODE
Pulsed output for KWh or KVARh	PMP - PULS
Modbus RS485 communication module	PMP - MODBUS

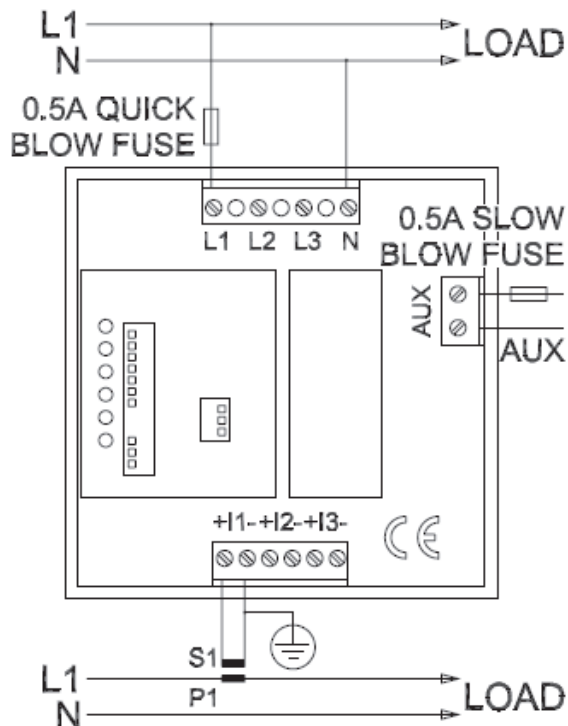


DIMENSIONAL SIZE DIAGRAM



WIRING DIAGRAM & PARAMETER IN MENU

1 phase - 2 wire



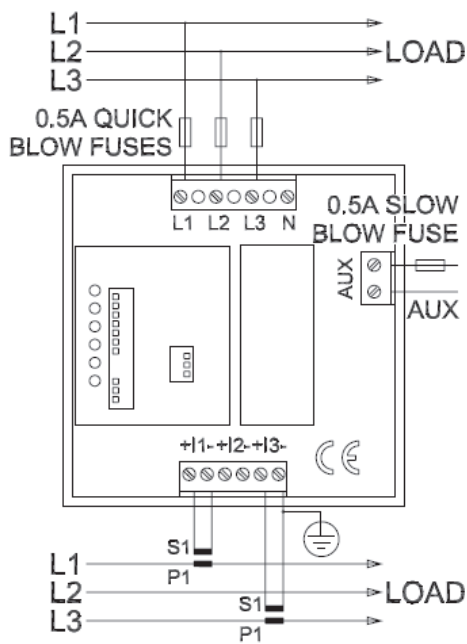
BUTTON	SCREEN	PARAMETERS
Voltage	1	Volts L1
	2	Frequency
	3	Volts L1 - L2 THD%

BUTTON	SCREEN	PARAMETERS
Current	1	Current L1
	2	L1 Current Max Demand
	3	Current L1 THD%

BUTTON	SCREEN	PARAMETERS
Power	1	kW
		kVAr
		kVA
2	kW Max Demand	
	3	Power Factor

BUTTON	SCREEN	PARAMETERS
Energy	1	kWh
	2	kVArh

3 phase - 3 wire



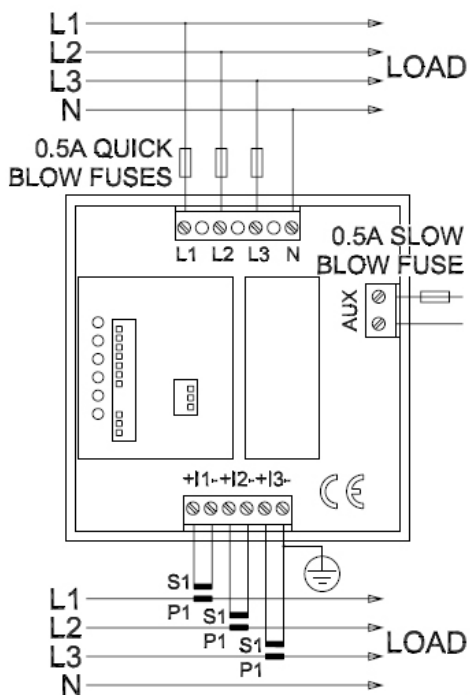
BUTTON	SCREEN	PARAMETERS	
Voltage	1	Volts L1 - L2	
		Volts L2 - L3	
		Volts L3 - L1	
	2	Frequency	
		3	Volts L1 - L2 THD%
			Volts L2 - L3 THD%
	Volts L3 - L1 THD%		

BUTTON	SCREEN	PARAMETERS
Current	1	Current L1
		Current L2
		Current L3
	2	L1 Current Max Demand
		L2 Current Max Demand
		L3 Current Max Demand
	3	Current L1 THD%
		Current L2 THD%
		Current L3 THD%

BUTTON	SCREEN	PARAMETERS	
Power	1	kW	
		kVAr	
		kVA	
	2	kW Max Demand	
		3	Power Factor

BUTTON	SCREEN	PARAMETERS
Energy	1	kWh
	2	kVArh

3 phase - 4 wire



BUTTON	SCREEN	PARAMETERS	
Voltage	1	Volts L1 - N	
		Volts L2 - N	
		Volts L3 - N	
	2	Volts L1 - L2	
		Volts L2 - L3	
		Volts L3 - L1	
	3	Frequency	
		4	Volts L1 - N THD%
			Volts L2 - N THD%
	Volts L3 - N THD%		
	5	Volts L1 - L2 THD%	
		Volts L2 - L3 THD%	
		Volts L3 - L1 THD%	

BUTTON	SCREEN	PARAMETERS	
Current	1	Current L1	
		Current L2	
		Current L3	
	2	Neutral Current	
		3	L1 Current Max Demand
			L2 Current Max Demand
	L3 Current Max Demand		
	4	Neutral Current Max Demand	
		5	Current L1 THD%
			Current L2 THD%
	Current L3 THD%		

BUTTON	SCREEN	PARAMETERS	
Power	1	kW	
		kVAr	
		kVA	
	2	kW Max Demand	
		3	Power Factor

BUTTON	SCREEN	PARAMETERS
Energy	1	kWh
	2	kVArh