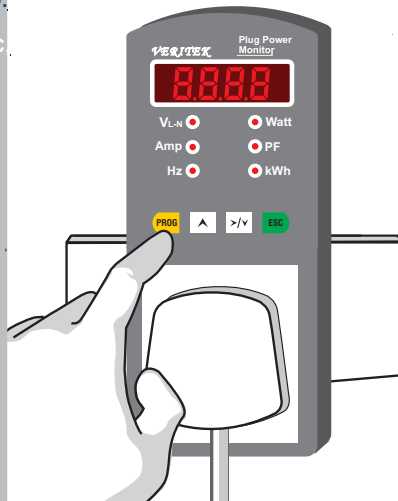


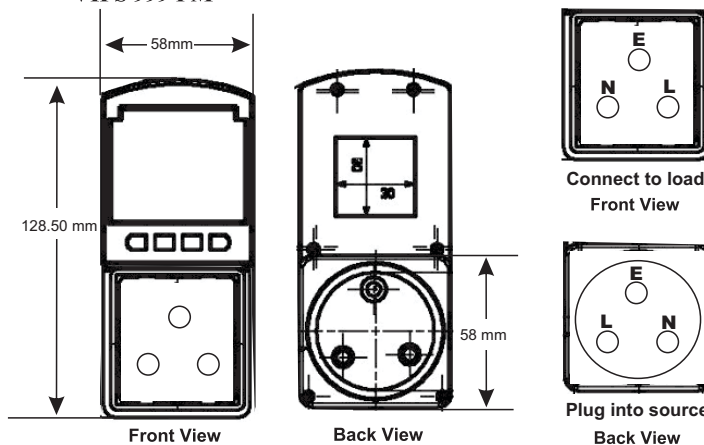
## PLUG-IN POWER METER VIPS 999 PM



1 x Plug-in power meter  
1 x Instruction manual

### MECHANICAL DIMENSION

VIPS 999 PM



### SPECIFICATION

Input	: 10- 300 VAC L-N
Amp	: 0.015A - 6.00Amp AC 0.060Amp-20.00Amps(optional)
Burden	: 3VA Max. for Aux. Supply, 0.2VA for Voltage & Current input
Aux. Supply	: 90 - 270 VAC / DC, 50/60 Hz
Display	: 1 Line x 4 Digit { 0.39 Inches 7 Segment LED Display }
Computation	: True RMS
Frequency	: 45 Hz - 65 Hz
Ambient	: -10 to 55°C
Storage	: -20 to 75°C
Humidity	: < 95% Non-Condensing
Weight	: 280 gms
Mounting	: Pluggable

### MEASUREMENT RANGES

Volts	: 10- 300 VAC L-N
Amp	: 0.015A - 6.00Amp AC 0.060Amp-20.00Amps(optional)
Display Update	: 1 Sec
Hz	: 45 to 65 Hz
Resolution	: 0.1 for Energy, auto ranging for other parameter.
Accuracy	: $\pm 0.5\%$ of full scale for voltage, current, power, power factor.
Frequency	: $\pm 0.1\%$ for Hz
Energy	: class 1.0

### MANUAL SCROLL MODE

In this mode the display shows parameter of the selected page.  
The parameter of next / previous page can viewed by pressing  $\Delta$  or  $\nabla$  keys.

### AUTO SCROLL MODE

In this mode the display shows parameter of page 1 then scroll to page 2 and so on.

### DISPLAY FREEZE MODE

This mode can be activated by pressing  $\text{Esc}$  key during normal meter operation. When this key is pressed the display will remain on the parameter it is currently displaying.

Pressing  $\text{Esc}$  Key one again will bring the meter out of freeze mode.

### DISPLAY PAGES

#### 1 Phase Meter :

Page	Symbol	Parameters
1	V L-N	Voltage (L-N)
2	A	Amps
3	Hz	Frequency
4	Watt	Active power
5	PF	Power Factor
6	AE	Active Energy
7	uThd	Harmonics - Voltage -THDV (V LED / Flashes)
8	iThd	Harmonics - Current -THDI (A LED / Flashes)
9	t	Load Hour (Timer)

### TEST CERTIFICATE

Type : **SINGLE PHASE POWERMETER  
(VIPS 999 PM)**

Accuracy : Class 0.5 for V & A; 0.1%  
of FS for Hz

Accuracy Test :  
SINGLE PHASE POWER METER (VIPS 999 PM)

VOLTAGE		CURRENT		FREQUENCY
10%	100%	10%	100%	100%
+/-0.5%	+/-0.5%	+/-0.5%	+/-0.5%	+/-0.1%
OK	OK	OK	OK	OK

Power Factor		Watts	
10%	100%	10%	100%
+/-0.5%	+/-0.5%	+/-0.5%	+/-0.5%
OK	OK	OK	OK

#### Note :

A) For Digital Readouts the error is Computed in Counts.

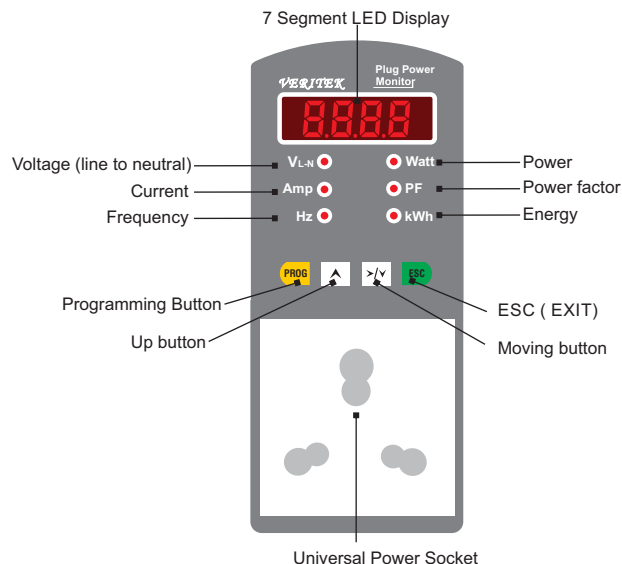
- Class 1.0 =  $\pm 1\%$  of Full Scale  $\pm 1$  Count

- Class 0.5 =  $\pm 0.5\%$  of Full Scale  $\pm 1$  Count

Tested By :

Date :

### Product Indications



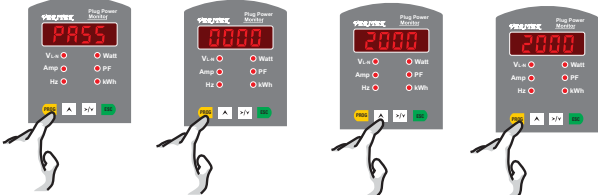
## PROGRAMMING

Press **PROG** key to enter Program mode.

The meter Show Password entry page {PASS and then 0000}

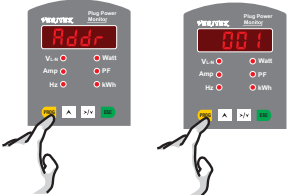
Enter the password using **▲** key to increment count & **>/v** key to move to the next digit. After entering the password press **PROG** key, if the password is correct, the unit will enter the program mode.

Default factory set password is 2000



### Menu 1 : Unit Address for RS 485 communication

**NOTE:** this option is applicable only for RS 485 Communication.  
Factory set value is 001



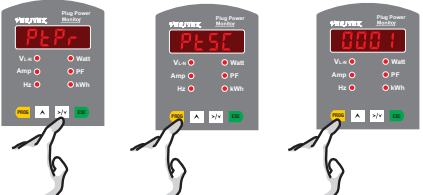
### Menu 2 : To Set PT Primary

**NOTE:** Factory set value is 0001, no need to change value as this unit is directly mains operated. If you change this value you will get wrong readings.



### Menu 3 : PT Secondary

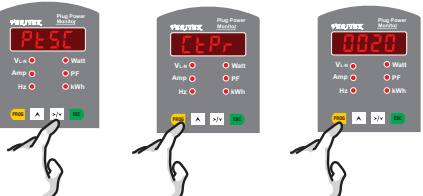
**NOTE:** Factory set value is 0001, no need to change value as this unit is directly mains operated. If you change this value you will get wrong readings.



### Menu 4 : CT Primary

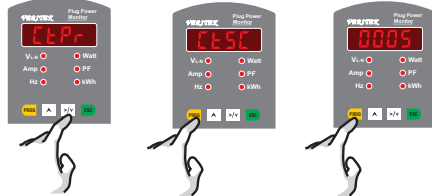
**NOTE:** Factory set value is 0020, no need to change this value as this unit is made for 20 Amps.

If you change this value you will get wrong readings.



### Menu 5 : CT Secondary

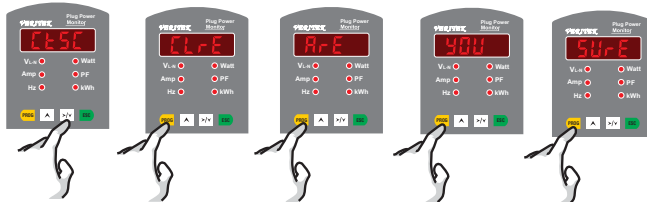
**NOTE:** Factory set value is 0005, no need to change this value  
If you change this value you will get wrong readings.



### Menu 6 : To Clear Energy

When **PROG** key pressed the display shows CLrE.

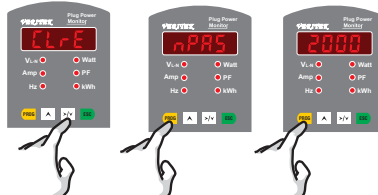
Press **PROG** key once again, unit reconfirms by asking "ru sUrE ? CLrE" by pressing **PROG** key once again the import energies will get clear.



### Menu 7 : To Set New Password

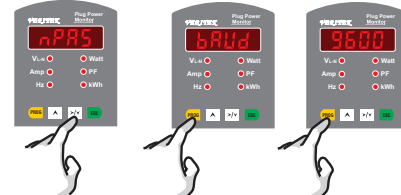
When **PROG** key pressed the display shows 2000 (Current password)

The password can be edited using **▲** & **>/v** keys. After entering desired value press **PROG** key to save value.



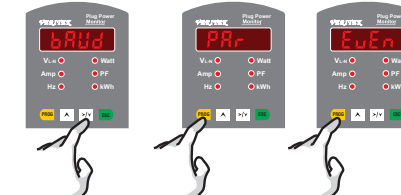
### Menu 8 : Baud Rate

**NOTE :** This option is Applicable only for RS 485 Communication.  
No need to change this value.



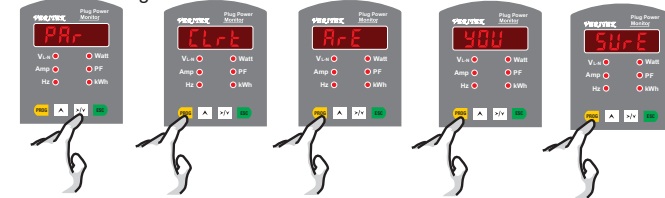
### Menu 9 : Parity

**NOTE :** This option is Applicable only for RS 485 Communication.  
No need to change.



### Menu 10 : To Clear Load hour Timer.

When **PROG** key is pressed the display shows "Clr ArE U SuRE" by pressing **PROG** key ones again ON timer will get clear.

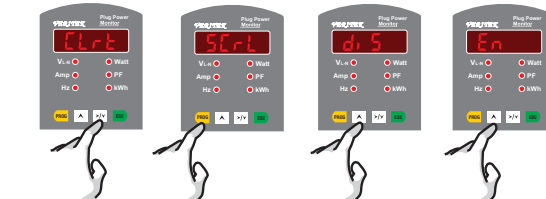


### Menu 11 : To Select Auto / Manual scroll

When **PROG** key is pressed the display shows dIS / En.

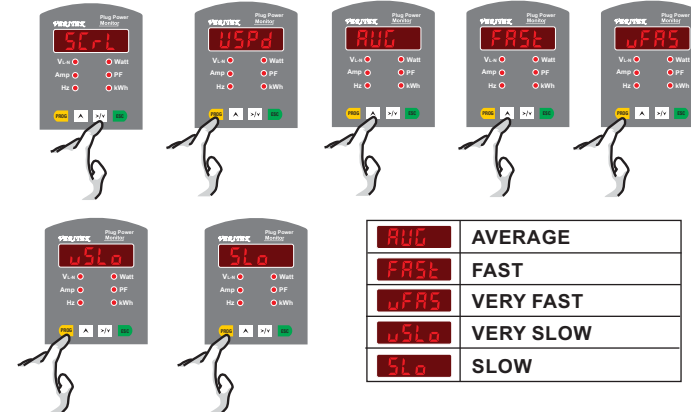
You can select "dIS" to disable Auto scroll or select "EN" to enable Auto using **▲** & **>/v** keys.

After entering desired option press **PROG** key to save



### Menu 12 : To Select Scroll Speed

When you enter the menu Press **▲** to change scroll speed



To come out of programming menu press **ESC**

