VERITEK

1 PHASE POWER METER

VIPS 999

TEST CERTIFICATE

Type : **1 PHASE POWER METER**

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

Accuracy Test :

1 Phase Power meter

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		kVA
10%	100%	10%	100%	100%
+/-0.5%	+/-0.5%	+/-0.5%	+/-0.5%	+/-0.1%
OK	OK	OK	OK	OK

Note :

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

- Class 1.0 = ± 1% of Full Scale ± 1 Count
- Class 0.5 = ± 0.5% of Full Scale ± 1 Count

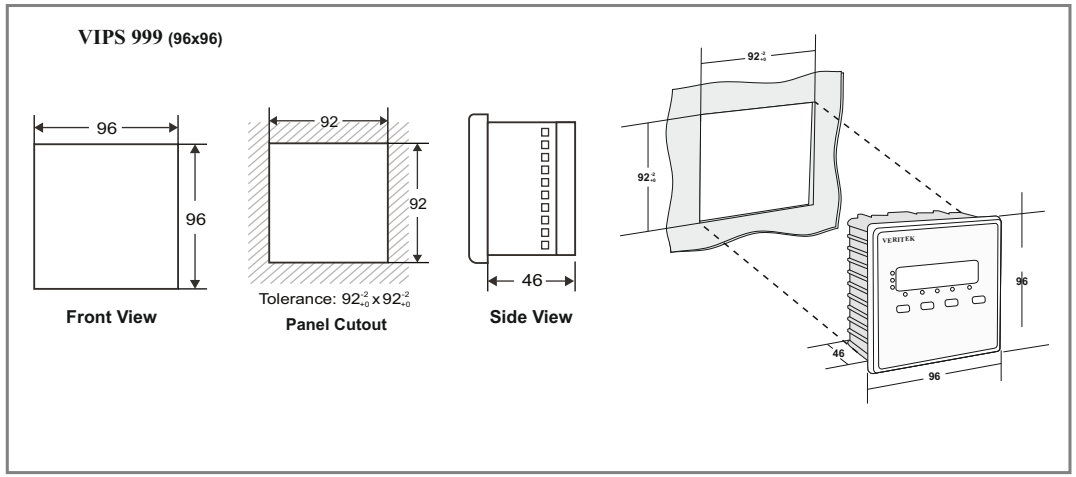
Tested By : Mr. Sumit

Date :

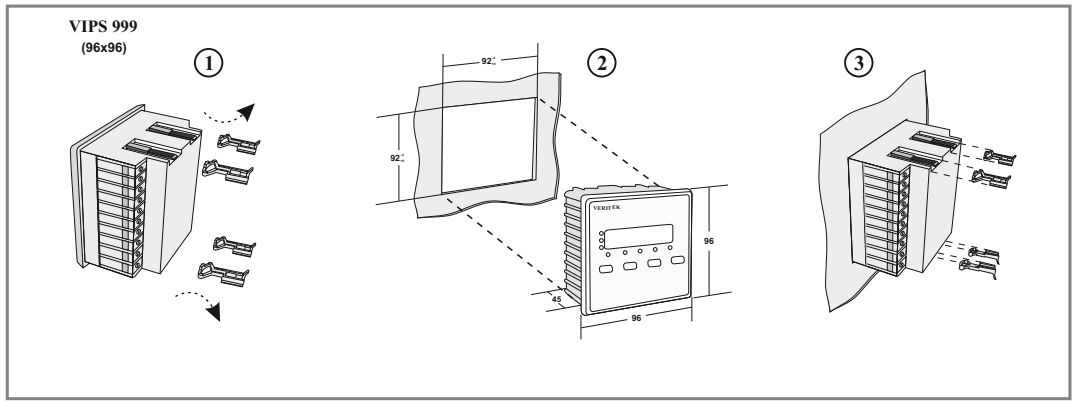
VERITEK ENGINEERING PVT. LTD.

Plot No. 222, EL-Electronic Zone, MIDC, TTC Industrial Area,
Mahape, Navi Mumbai - 400701, India
Tel. : +91 86557 47987
Email : sales@veritekindia.com I Web : www.veritekindia.com

MECHANICAL DIMENSION



MOUNTING ARRANGEMENT



1) Remove the mounting clamps
2) Gently slide the Meter through the cut-out.
3) Put the mounting clamps back in the Meter.

FEATURES

(1) State of Art Micro controller Based Design

(2) 1 Line 4 Digit Ultra Bright LED Display

(3) Site Programmable PT ratio (Primary & Secondary)

(4) Site Programmable CT ratio (Primary & Secondary)

(5) True RMS Measurement

(6) Password Protection

(7) Harmonics THDV & THDI

(8) Auto Ranging

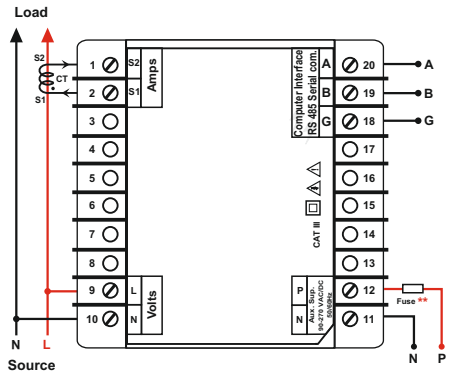
(9) Universal Aux. Supply

(10) RS485 Computer Interface (Optional)

CONNECTION DETAILS

Electrical Wiring / Connection Diagram

1 Phase Power Meter (96x96) - VIPS 999C



** Connect Fuse = 0.25 A

SPECIFICATION

Input	1 Phase 2 Wire Range 10-300 VAC (L-N)
Amps	: 0.015 to 6.00 Amp Direct 60 ampere 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 { 0.56 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
Dimesions	: 96 x 96 x 46 mm (L x W x D)
Panel Cutout	: (90 +0 -2)mm x (90 +0 -2)mm
Mounting	: Flush Mounting with Side Clamps.
Protection Degree	: IP20 (Terminals) IP54 (Front of housing)

MEASUREMENT RANGES

Volts	: 10-300VAC L-N
Amp	: 0.015A - 6.00Amp AC
Display Update	: 1 Sec
Hz	: 45 to 65 Hz
Resolution	: 0.1 for Energy, auto ranging for other parameter.
Accuracy	: ∓ 0.5% of full scale for voltage, current, power, power factor.
Frequency	: ±0.1% for Hz
Energy	: class 1.0 Active / Apparen class 1.0 Reactive

DISPLAY PAGES

1 Phase Power Meter (VIPS 999) :

Page	Symbol	Parameters
1	V	Voltage (L-N)
2	A	Amps
3	Hz	Frequency
4	W	Watts (Active Power)
5	Var	Var (Reactive Power)
6	VA	VA (Apparent Power)
7	PF	Power Factor
8	AE	Active Energy
9	uthd	Harmonics - Voltage -THDV
10	Ithd	Harmonics - Current -THDI
11	t	Load Hour

PARAMETERS

1 PHASE POWER METER
Volts. Amps, Hz, PF, Active Power, Reactive Power, Apparent Power, Energy, THDV, THDI, Load Hours

MANUAL SCROLL MODE :

In this mode the display shows parameter of the selected page one after another.
The parameter of next / previous page can be viewed by pressing ▲ or ▼/▶ keys.

AUTO SCROLL MODE :

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

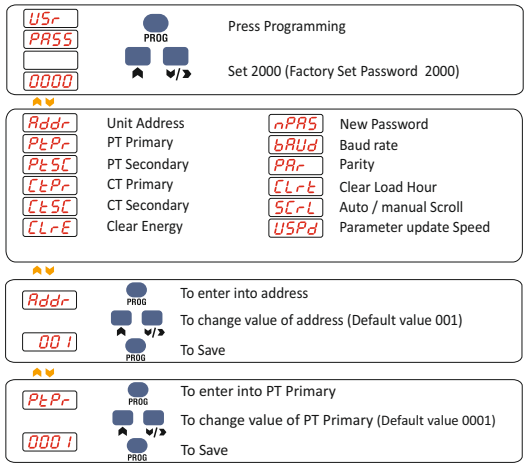
DISPLAY FREEZE MODE :

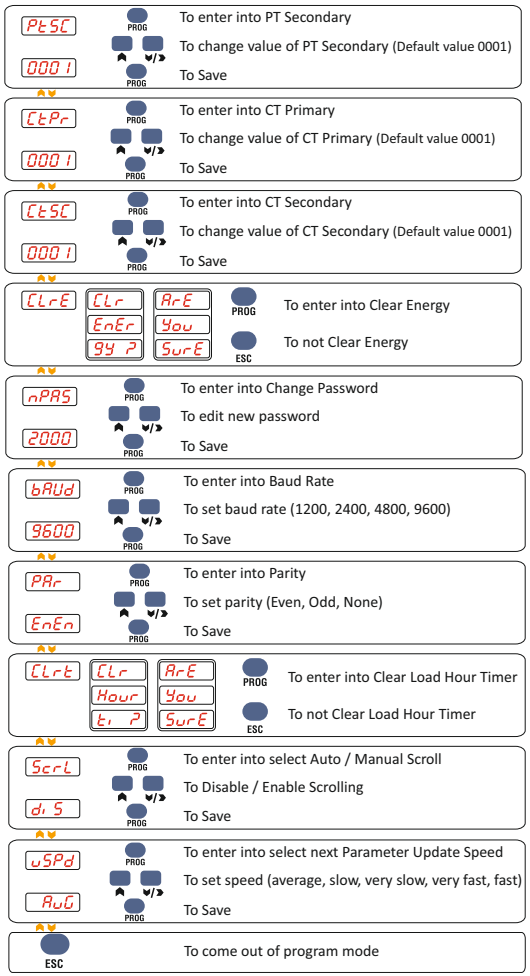
This mode can be activated by pressing ESC key during normal meter operation.

When this key is pressed the display will remain on the parameter it is currently displaying.

In this mode ▲ key can be pressed to see the other parameters of this page only, but to scroll to next page parameters first you have to come out of freeze mode. Pressing ESC key once again will bring the meter out of freeze mode.

PROGRAMMING





⚠ SAFETY PRECAUTIONS :

All safety related conditions, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

WIRING GUIDELINES :

⚠ Warning

1) To Prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.

2) Wiring shall be done strictly according to the terminal layout with shortest connection. Confirm that all connection are correct.

⚠ CAUTION :

1) To ensure the safe operation of unit, check the wiring and connections.

The Document are subject to change without Notification