VERITEK

POWER METERS

1 PHASE METER
VIPS 999P (96x48)

TE T E T TE

Type : **1 PHASE METER**

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

Accuracy Test :
1Ø 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 :

Date :

QC OK — VERITEK ENGINEERING PVT. LTD. NAVI MUMBAI

VERITEK ENGINEERING PVT. LTD.

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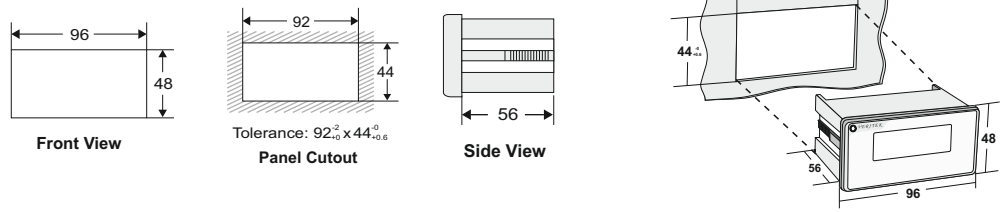
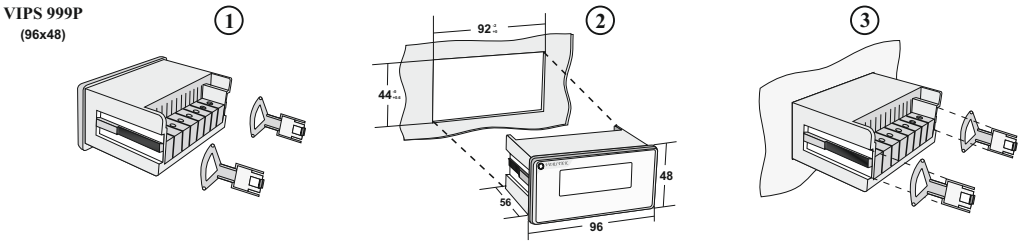
E E

VIPS 999P (96x48)



T G GE E T

VIPS 999P (96x48)



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

E T E

(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

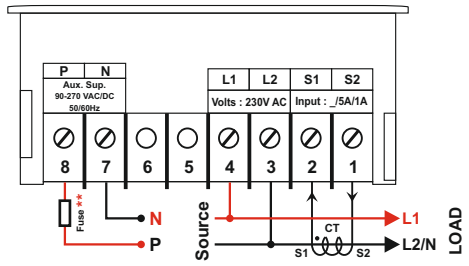
P ETE

1Ø Meter - VIPS 999 & VIPS 999P
Volts. Amps, Hz, PF, Active Power, Reactive Power, Apparent Power, Energy, THDV, THDI, Load Hours

E T ET

Electrical Wiring / Connection Diagram

1 Phase Meter (96x48) - VIPS 999P



** Connect Fuse = 0.25 A

PE T

Input : 1Ø Meter - 1 Phase 2 Wire
Range 0-300 V
: 3Ø Meter - 3 Phase 4 Wire
1 Phase 2 Wire
Range 0-500 V

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)
96 x 48 x 56 mm (L x W x D)

Panel Cutout : (90^{-2}_{+0})mm x (90^{-2}_{+0})mm
(90^{-2}_{+0})mm x $(44^{-2}_{+0.6})$mm

Mounting : Flush Mounting with Side Clamps.

E E E T GE

Volts : 0 - 500VAC L-L

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

E

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.

T E

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

P Y EE E E

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.

P YP GE

P P P P

Page	Symbol	Parameters
1	V L-N	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	I thd	Harmonics - Current -THDI
11	t	Load Hour

P G G

USr / PASS	PROG	Press Programming
0000	▲ / »/▼	Set 2000 (Factory Set Password 2862)

Addr	Unit Address	bAUd	Baud rate
PtPr	PT Primary	PAr	Parity
PtSC	PT Secondary	CLrt	Clear Load Hour
CtPr	CT Primary	SCrL	Auto / manual Scroll
CtSC	CT Secondary	dyrO	No. of display rows
CLrE	Clear Energy	USPd	Parameter update Speed
nPAS	New Password		

Addr	PROG	To enter into address
	▲ / »/▼	To change value of address (Default value 001)
001	PROG	To Save
PtPr	PROG	To enter into PT Primary
	▲ / »/▼	To change value of PT Primary (Default value 0001)
0001	PROG	To Save
PtSC	PROG	To enter into PT Secondary
	▲ / »/▼	To change value of PT Secondary (Default value 0001)
0001	PROG	To Save
CtPr	PROG	To enter into CT Primary
	▲ / »/▼	To change value of CT Primary (Default value 0001)
0001	PROG	To Save
CtSC	PROG	To enter into CT Secondary
	▲ / »/▼	To change value of CT Secondary (Default value 0001)
0001	PROG	To Save
CLrE → Clr / EnEr / 9y ? → ArE / You / SurE	PROG	To enter into Clear Energy
	ESC	To not Clear Energy
nPAS	PROG	To enter into Change Password
	▲ / »/▼	To edit new password
2000	PROG	To Save
bAUd	PROG	To enter into Baud Rate
	▲ / »/▼	To set baud rate (1200, 2400, 4800, 9600)
9600	PROG	To Save
PAr	PROG	To enter into Parity
	▲ / »/▼	To set parity (Even, Odd, None)
EnEn	PROG	To Save
CLrt → Clr / Hour / t, ? → ArE / You / SurE	PROG	To enter into Clear Load Hour Timer
	ESC	To not Clear Load Hour Timer
SCrL	PROG	To enter into select Auto / Manual Scroll
	▲ / »/▼	To Disable / Enable Scrolling
d, S	PROG	To Save
dyro	PROG	To enter into select Display Rows
	▲ / »/▼	1 Parameter: Avg / Total; 3 Parameter: R, Y, B; 4 Parameter: R, Y, B, Avg/Total
4	PROG	To Save
uSPd	PROG	To enter into select next Parameter Update Speed
	▲ / »/▼	To set speed (average, slow, very slow, very fast, fast)
AuG	PROG	To Save
	ESC	To come out of program mode

⚠ ETY P E T

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.

GG E E

⚠

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.

⚠ T

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