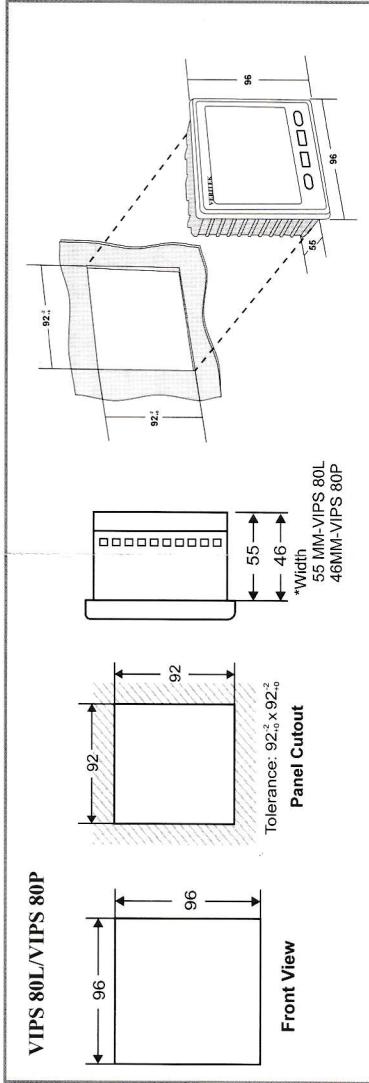
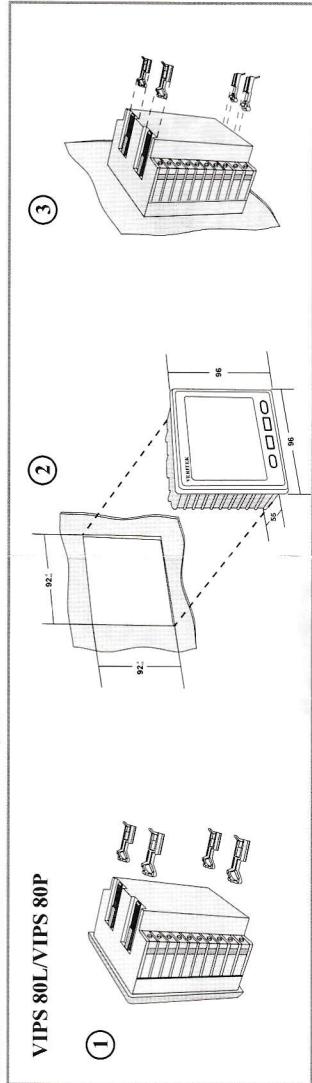




MECHANICAL DIMENSION



MOUNTING ARRANGEMENT



TEST CERTIFICATE

Type : POWER ANALYZER

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

Accuracy Test :

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

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

Note :

- A) For Digital Readouts the error is Computed in Counts.
- Class 1.0 = $\pm 1\%$ of Full Scale ± 1 Count
- Class 0.5 = $\pm 0.5\%$ of Full Scale ± 1 Count

Tested By : Mr. Dipesh

Date : 94026042

VERITEK ENGINEERING PVT. LTD.

Plot No. 222, EL-Electronic Zone, MIDC, TTC Industrial Area,
Mahape, Navi Mumbai - 400701, India
Tel.: +91-74 0041 5391 / 92 / 93
Email : sales@veritekindia.com | Web : www.veritekindia.com

** Connect Fuse = 0.25 A

- class 0.5

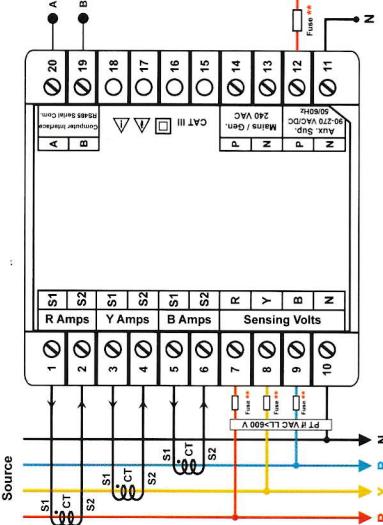
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SPECIFICATION

Input	: 3 Phase 4 Wire / 1 Phase 2 Wire
	: Volts - Range 10 - 300 Volts (L-N)
	: Volts - Range 10 - 500 Volts (L-L)
	: Amps - Range 0.015 - 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	: 4x4 Line, 8x1 Line LCD Display with Bar Graph For VIPS 80L
	: 4 Line 4 Digit Ultra Bright LED Display Module For VIPS 80P
Computation	: True RMS
Relay Contact	: 4 Potential free Contact (COM & NO) (Optional) *Only For VIPS 80LC
Contact Rating	: 5Amp/230VAC/28VDC
Frequency	: 45 Hz - 65 Hz
Ambient	: -10 to 55°C
Storage	: -20 to 75°C
Humidity	: < 95% Non-Condensing
Weight	: 350 gms-VIPS 80L
	: 320 gms-VIPS 80P
Dimensions	: 96 x 96 x 55 mm (L x W x D) For VIPS 80L
	: 96 x 96 x 46 mm (L x W x D) For VIPS 80P
Panel Cutout	: (92 ²)mm x (92 ²)mm
Mounting	: Flush Mounting with Side Clamps.

MEASUREMENT RANGES

Volts	: 10 - 300VAC (L-N)
	: 10 - 500VAC (L-L)
Amp	: 0.015A - 6.00Amp AC
	Direct 60 Amps optional
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 0.5



Electrical Wiring / Connection Diagram

Power Analyzer - VIPS 80LC / 80PC

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

CONNECTION DIAGRAM



VIPS 80P
*VIPS 80LC/VIPS 80PC
With communication

POWER ANALYZER



VIPS 80L



VIPS 80P
*VIPS 80LC/VIPS 80PC
With communication

TEST CERTIFICATE

Type : POWER ANALYZER

Accuracy : Class 0.5% for V & A
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VOLTAGE	CURRENT	FREQUENCY
+/- 0.5%	+/- 0.5%	+/- 0.1%
OK	OK	OK

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

Note :

- A) For Digital Readouts the error is Computed in Counts.
- Class 1.0 = $\pm 1\%$ of Full Scale ± 1 Count
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PARAMETERS

- V L-L & V L-N (Individual / Average),
Current (Individual / Average),
Power Factor (Individual / Average),
Active / Reactive / Apparent Power (Individual / Average),
Frequency / RPM,
Phasor Angle,
Phase Angle,
THD V (Phase vise),
THD I (Phase vise),
RTC,
Date,
Run Hour (Import / Export & Total),
Rising demand / forecast demand,
Maximum demand with date & time,
Active Energy, (Import & Export),
Apparent Energy (Import & Export),
Reactive Inductive Energy, (Import & Export),
Reactive Capacitive Energy, (Import & Export),

PROGRAMMING

USER		Press Programming Button Twice
PSSS		Set 1000 (Factory Set Password 1000)
SL00		To enter into Energy Slot (Default 1)
SL01		To change Energy Slot(1-6)
SL02		To Save
t0d		To enter into TOD slot (Time setup)
SL-1		To change TOD slot (Time setup)
0000		To Save
baud		Baud Rate
rate		Party
pt-y		Address RS 485
id		No. of poles for RPM calculation
ptc		Change Password
rtc		Backlight Control
hhn		Auto / Manual Scroll
type		MD Type(Fixed / Sliding window)
pid		MD Parameter (kW/kVA, Amp,kVAr)
ndpd		MD Integration time
fr-lsi		Forecast demand integration time
sl01		Energy Slot(1-6)
ttc		To enter into Parity
par		To set Parity (Even, Odd, None)
ndfc		(Default None)
tsv		To Save
0400		To enter into Baud Rate
9600		To set baud rate (1200,2400,4800,9600)
9600		To Save
ptc-y		To enter into Password
ndfc		To set Password (Even, Odd, None)
tsv		To Save
1-d		To enter into Address RS 485
001		(Default 001)
tsv		To Save
poles		To enter into No. Of poles for RPM calculation
0400		To change No. Of poles for RPM calculation
0400		(Default 04.00)
tsv		To Save
chng		To enter into Change Password
1000		To edit new password
tsv		To Save
0000		To enter into back light option (Only for VIPS 80L)
0000		To set back light OFF time (00.00-99.99 sec)
0000		(Default 00.00) 00.00 Means continuous ON Backlight
tsv		To Save
scr		To enter into Select Auto / Manual Scroll
0000		To set scrolling time (00.00-99.99 sec)
0000		(Default 10.00) 00.00 Means Manual scrolling
tsv		To Save
scr-l		To enter into Reset MD
nd		Press Twice (Display show Enter Then Press button to Reset all Timers & display show done)
scr-h		To enter into Reset All Timers
nd		Press Twice (Display show Enter Then Press button to Reset all Energies & Display show done)
clr		To enter into MD Parameter (kW/kVA,Amp,kVar)
enrg		To change MD Parameter (kW/kVA,Amp,kVar)
0500		To Save
0500		To enter into MD Integration time
0500		(Default 05.00)
tsv		To Save
fr-cs		To enter into Forecast demand integration time
0100		(01.00-30.00)
0100		To Save
tsv		To change Forecast demand integration time
0100		(01.00-30.00)
tsv		To Save
esc		To come out of program mode

NOTE

- 1) Ensure S1, S2, CT connectors & R, Y, B sequence is correct. In case S1, S2 is reverse watt reading will appear with a negative sign.
- 2) When M/G input is available watt readings will become negative to indicate now DG / Export mode is active.

- 3) 230VAC input has to be given across terminal marked M/G to put the meter in Export / DG mode for dual source operators.

Safety Precautions :

- All safety related codifications, 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 :

- 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

DISPLAY PAGES

Page	Symbol	Parameters
1	V-L-N	Voltage (L-N) YN, BN & Average
2	V-L-L	Voltage (L-L) RX / YB, BR & Average
3	Amp	Amps R, Y, B & Average
4	PF	Power Factor R, Y, B & System
5	 Watt	Watts (Active Power) R, Y, B & Total
6	Var	VAR (Reactive Power) R, Y, B & Total
7	VA	VA (Apparent Power) R, Y, B & Total
8	Hz	Frequency / RPM
9	phr-o	Phasor Angle between Voltage in degrees
10	phi-o	Phase Angle Between Volt & Amps in degrees
11	uhd	Harmonics-Voltage-THDV Phase wise & Avg.
12	tuhd	Harmonics-Current-THDI Phase wise & Avg.
13	tifc	Real Time Clock
14	drtc	Date
15	ldt1	Load Hour (Timer) - Import
16	ldt2	Load Hour (Timer) - Export
17	onht	ON Hour (Duration for which the meter is ON with/without load)
18	DMD	Rising Demand & forecast demand
19	MAX DMD	Peak Maximum Demand with date & time

**VIPS 80L-Press ESC Key to display following Energy Parameter
VIPS 80P-Press ESC Key & , Button to Scroll the Energy pages**

1	KWh IMP	Import Active Energy
2	KVAh IMP	Import Apparent Energy
3	KVAh IMP	Import Reactive - Inductive Energy
4	KVAh IMP	Import Reactive - Capacitive Energy
5	KWh EXP	Export Active Energy
6	KVAh EXP	Export Apparent Energy
7	KVAh IMP	LAG
8	KVAh IMP	LERd
9	tfd	Onwards TOD slot 1 import & export Energies upto slot (n) .(n is no of slots define)

BAR GRAPH *Only For VIPS 80L

V11.02% & 13% TO Display the % of current in R, Y, B, phases respective.