



VERITEK

ENERGY METER



VIPS 84



*VIPS 84 P With Communication

TEST CERTIFICATE

Type : **ENERGY METER**

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

Accuracy Test :

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

Power Factor	Watts	kVA
10%	100%	100%
+/-1.0%	+/-1.0%	+/-1.0%
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 : Ms. Roshani

Date :

VERITEK ENGINEERING PVT. LTD.

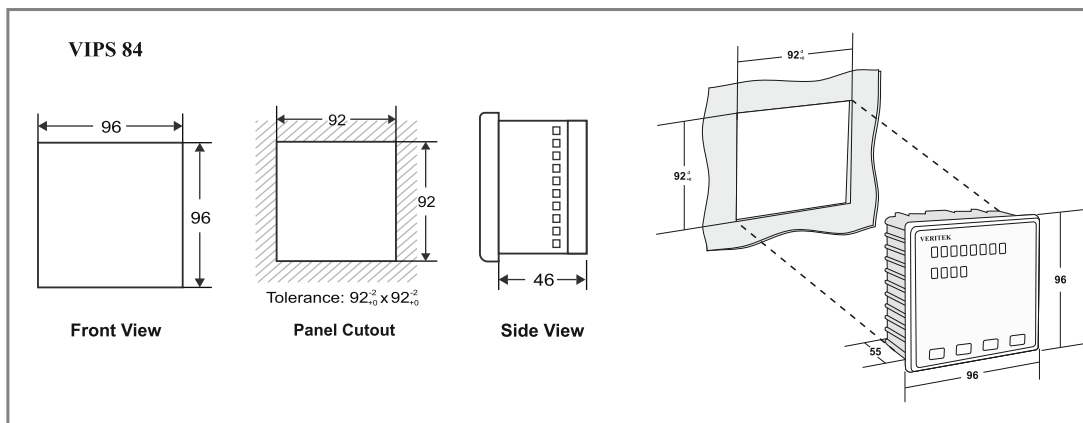
Plot No. 222, EL-Electronic Zone, MIDC, TTC Industrial Area,

Mahape, Navi Mumbai - 400701, India

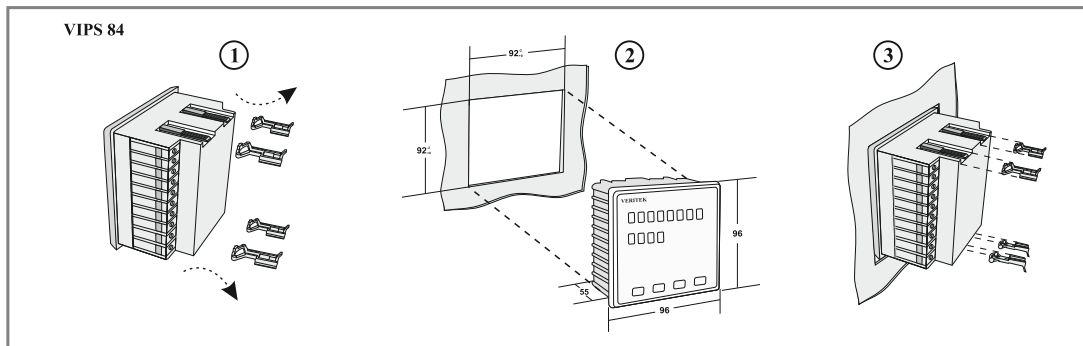
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MECHANICAL DIMENSION



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.

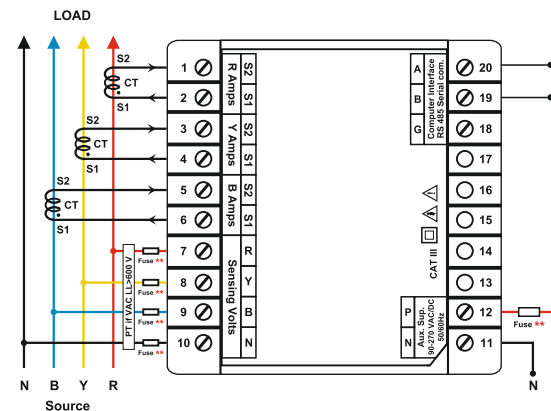
FEATURES

- (1) State of Art Micro controller Based Design
- (2) 1 Line 8 Digit Ultra Bright LED Display for Energy
- (3) 1 Line 4 Digit Ultra Bright LED Display for Other Parameters
- (4) Site Programmable PT ratio (Primary & Secondary)
Site Programmable CT ratio (Primary & Secondary)
- (5) True RMS Measurement
- (6) Password Protection
- (7) RS 485 Computer Interface (optional)
- (8) Total Harmonic Distortion
- (9) Auto Ranging
- (10) Universal Aux. Supply

CONNECTION DETAILS

Electrical Wiring / Connection Diagram

3 Phase 4 Wire - VIPS 84 / 84P



SPECIFICATION

System Voltage	: 3 Phase 4 Wire/ 1 Phase 2 Wire
	: Range 10-300 VAC (L-N) Range 10-500 VAC (L-L)
Amp	: 0.015A - 6.00Amp AC Direct 60 Amps 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 8 Digit for energy 1 Line x 4 Digit for parameter display { 0.36 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
Dimesions	: 96 x 96 x 46 mm (L x W x D)
Panel Cutout	: (92 $\frac{3}{4}$)mm x (92 $\frac{3}{4}$)mm
Mounting	: Flush Mounting with Side Clamps.
Weight	: 280 gms
Protection Degree	: IP20(Terminals) IP54 (Front Of Housing)

MEASUREMENT RANGES

Voltage	: Range 10-300 Volts (L-N) Range 10-500 Volts (L-L)
Amp	: 0.015A - 6.00Amp AC Direct 60 Amps Optional
Display Update	: 1 Sec
Frequency	: 45 to 65 Hz
Resolution	: 0.1kWh 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 0.5

DISPLAY PAGES



Page	Symbol	Parameters
1	V L-L ●	Voltage (L-L) RY, YB, BR
2	V L-N ●	Voltage (L-N) RN, YN, BN
3	A ●	Amps R, Y, B
4	Hz ●	Frequency
5	W ●	Watts (Active Power) R, Y, B
6	Var ●	Var (Reactive Power) R, Y, B
7	VA ●	VA (Apparent Power) R, Y, B
8	PF ●	Power Factor R, Y, B
10	V ●	Harmonics - Voltage - THDV (V led / flashes)
11	A ●	Harmonics - Current - THDI (I led / flashes)
12	t	Load Hour

NOTE :

When the V or A LED flashes the reading are of THDV or THDI when V or A LED is steady ON it indicates voltage or current reading.

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.

PROGRAMMING

USr

PROG

Press Programming

PRSS

Set 2000

0000

Addr

Unit Address

PTPr

PT Primary

PTSC

PT Secondary

CTPr

CT Primary

CTSC

CT Secondary

CLrE

Clear Energy

nPRS

New Password

bAUd

Baud rate

CLrE

Reset Timer

SCrL



Auto / manual Scroll

Addr

PROG

To enter into address

001

To change value of address (Default value 001)

PROG



To Save

PTPr

PROG

To enter into PT Primary

0001

To change value of PT Primary (Default value 0001)

PROG



To Save

PTSC

PROG

To enter into PT Secondary

0001

To change value of PT Secondary (Default value 0001)

PROG



To Save

CTPr

PROG

To enter into CT Primary

0001

To change value of CT Primary (Default value 0001)

PROG



To Save

CTSC

PROG

To enter into CT Secondary

0001

To change value of CT Secondary (Default value 0001)

PROG

To Save

CLrE

SurE

PROG

To enter into Clear Energy

2

PROG

To not Clear Energy



CLrE

ESC

nPRS

PROG

To enter into Change Password

To edit new password

2000

PROG



To Save

bAUd

PROG

To enter into Baud Rate

9600

To set baud rate (1200, 2400, 4800, 9600)



PROG

To Save

PRr

PROG

To enter into Parity

To set parity (Even, Odd, None)

EnEn

PROG

To Save

CLrE

ru

PROG

To enter into Clear Load Hour Timer

SurE

2

PROG



To not Clear Load Hour Timer

SCrL

PROG

To enter into select Auto / Manual Scroll

d15

To Disable / Enable Scrolling

PROG

To Save

ESC

To come out of program mode

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