VERITEK

POWER METERS

3 PHASE METER
VIPS 883 (96x96)

TEST CERTIFICATE

Type : **3 PHASE METER**

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

Accuracy Test :
3Ø 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 :

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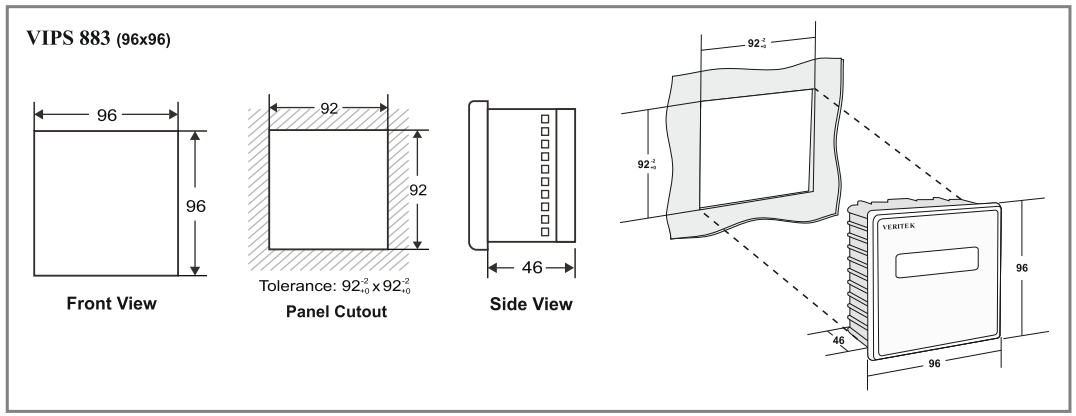
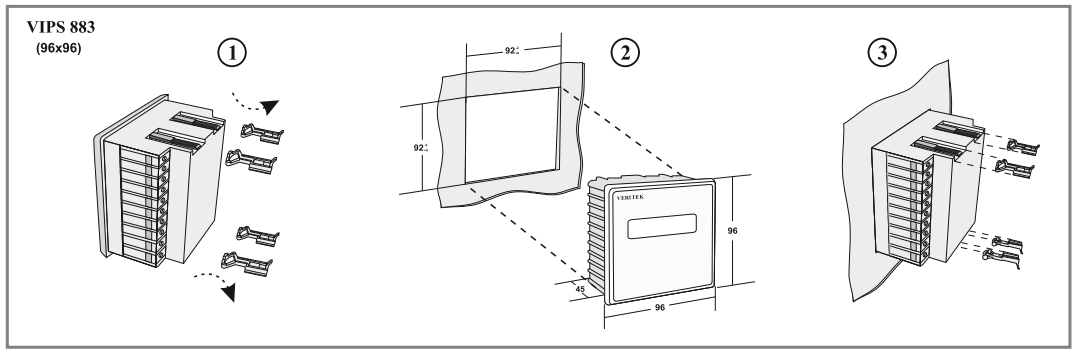
MECHANICAL DIMENSION



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 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

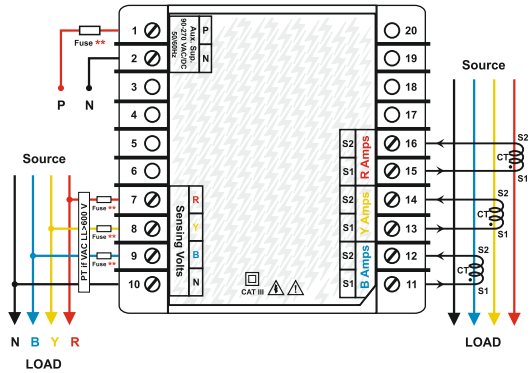
(8) Auto Ranging

(9) Universal Aux. Supply

CONNECTION DETAILS

Electrical Wiring / Connection Diagram

3 Phase Meter (96x96) - VIPS 883



** Connect Fuse = 0.25 A

SPECIFICATION

Input	: 1Ø Meter - 1 Phase 2 Wire Range 10-300 VAC (L-N) Range 10-500 VAC (L-L) : 3Ø Meter - 3 Phase 4 Wire 1 Phase 2 Wire Range 10-300 VAC (L-N) Range 10-500 VAC (L-L)
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.
Protection Degree	: IP20(Terminals) IP54 (Front Of Housimg)

MEASUREMENT RANGES

Volts	: 10-300VAC L-N 10-500VAC 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

PARAMETERS

3Ø Meter - VIPS 883
V L-L, V L-N phase wise & Avg, Ampere Phase wise & Avg, Hz, PF Phase wise & System, Active, Reactive, Apparent Power phase wise & Total, Energy, THDV, THDI, Load Hours.

DISPLAY PAGES

3 Phase Meter (VIPS 883) :

Page	Symbol	Parameters
1	V L-L	Voltage (L-L) RY, YB, BR & Average
2	V L-N	Voltage (L-N) RN, YN, BN & Average
3	A	Amps R, Y, B & Total
4	Hz	Frequency
5	W	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	PF	Power Factor R, Y, B & System
9	AE	Active Energy
10	uthd	Harmonics - Voltage -THDV Phase wise & Avg.
11	Ithd	Harmonics - Current -THDI Phase wise & Avg.
12	t	Load Hour

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

USr / PASS / 0000 — PROG — Press Programming; 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 / 001 — To enter into address; To change value of address (Default value 001); To Save

PtPr / 0001 — To enter into PT Primary; To change value of PT Primary (Default value 0001); To Save

PtSC / 0001 — To enter into PT Secondary; To change value of PT Secondary (Default value 0001); To Save

CtPr / 0001 — To enter into CT Primary; To change value of CT Primary (Default value 0001); To Save

CtSC / 0001 — To enter into CT Secondary; To change value of CT Secondary (Default value 0001); To Save

CLrE — Clr / ArE / EnEr / You / 9y ? / SurE — To enter into Clear Energy; To not Clear Energy

nPAS / 2000 — To enter into Change Password; To edit new password; To Save

bAUd / 9600 — To enter into Baud Rate; To set baud rate (1200, 2400, 4800, 9600); To Save

PAr / EnEn — To enter into Parity; To set parity (Even, Odd, None); To Save

CLrt — Clr / ArE / Hour / You / t1 ? / SurE — To enter into Clear Load Hour Timer; To not Clear Load Hour Timer

ScrL / di S — To enter into select Auto / Manual Scroll; To Disable / Enable Scrolling; To Save

dYrO / 4 — To enter into select Display Rows

1 Parameter	3 Parameter	4 Parameter
Avg / Total	R, Y, B	R, Y, B, Avg/Total

To Save

USPd / AvG — To enter into select next Parameter Update Speed; To set speed (average, slow, very slow, very fast, fast); To Save

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.