



VERITEK

3 PHASE METERS



3 PHASE VOLTMETER
VIPS 88 (96x96)



3 PHASE AMMETER
VIPS 89 (96x96)

TEST CERTIFICATE

Type : **3 PHASE VOLTMETER (VIPS 88)**
3 PHASE AMMETER (VIPS 89)

Accuracy : 3Ø Voltmeter - Class 0.5% For V
0.1% of FS for Hz
3Ø Ammeter - Class 0.5% For A

Accuracy Test :
3Ø Voltmeter

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

Accuracy Test :
3Ø Ammeter

AMPS
10%
+/-0.5%
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. Sumit

Date :

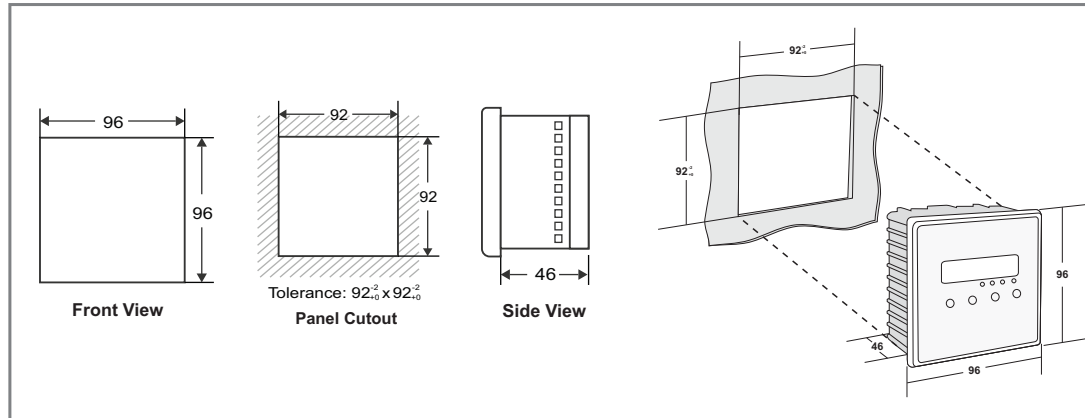
VERITEK ENGINEERING PVT. LTD.

Plot NO. - 222-Electronic Zone, MIDC, TTC Industrial Area,
Mahape, Navi Mumbai - 400710, India

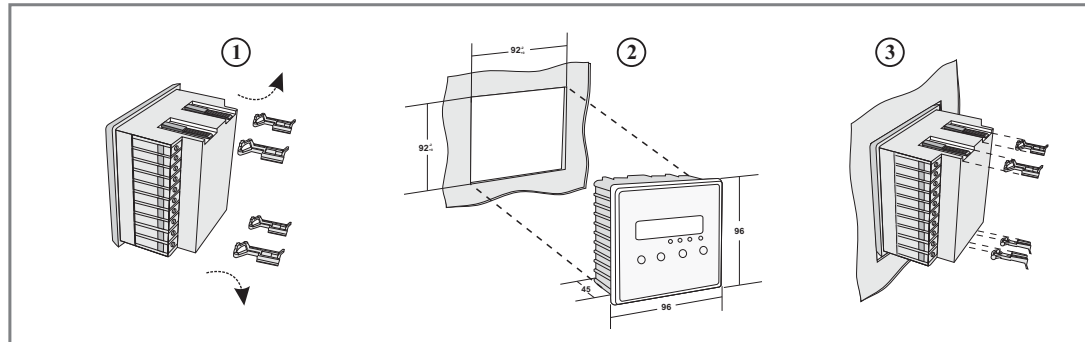
Tel. : +91 86557 47987

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MECHANICAL DIMENSION



MOUNTING ARRANGEMENT

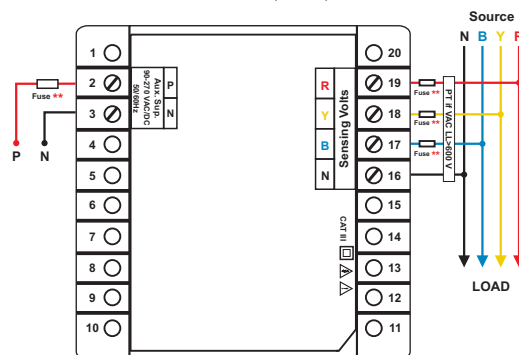


1) Remove the mounting clamps 2) Gently slide the Meter through the cut-out. 3) Put the mounting clamps back in the Meter.

CONNECTION DETAILS

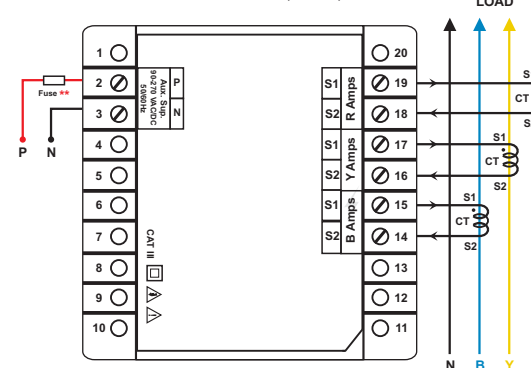
Electrical Wiring / Connection Diagram

3 Phase Voltmeter (96x96) - VIPS 88



Electrical Wiring / Connection Diagram

3 Phase Ammeter (96x96) - VIPS 89



** Connect Fuse = 0.25 A

FEATURES

- (1) State of Art Micro controller Based Design
- (2) 1 Line 4 Digit Ultra Bright LED Display
- (3) Site Programmable PT ratio (3 Phase Voltmeter)
Site Programmable CT ratio (3 Phase Ammeter)
- (4) True RMS Measurement
- (5) Password Protection
- (6) Harmonics THDV (3 Phase Voltmeter)
Harmonics THDI (3 Phase Ammeter)
- (7) Auto Ranging
- (8) Universal Aux. Supply

SPECIFICATION

- Input** : 3 Phase 4 Wire
: 3Ø Voltmeter - Range 10-300 VAC (L-N)
Range 10-500 VAC (L-L)
: 3Ø Ammeter - Range 0.015-6.00 Amps
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

Dimensions : 96 x 96 x 46 mm (L x W x D)

Panel Cutout : (92 $\frac{3}{16}$)mm x (92 $\frac{3}{16}$)mm

Mounting : Flush Mounting with Side Clamps.

Protection Degree : IP20 (terminals)
IP54 (Front of housing)

PARAMETERS

3 Phase Voltmeter - WHMVD334
V L-L, V L-N Phase wise & Avg., Hz, THDV phase wise & Avg.
3 Phase Ammeter - WHMA335
Ampere phase wise & Avg., THDI phase wise & Avg.

MEASUREMENT RANGES

Description	3Ø VOLTMETER	3Ø AMMETER
Volts : WHMVD334	10-300 VAC (L-N) 10-500 VAC (L-L)	—
Amps : WHMA335	—	0.015 - 6.00 A AC Direct 60 Amps
Display Update	1 Sec	
Hz	45.0 to 65.0 Hz	
Resolution	Auto Ranging	
Frequency	± 0.1% for Hz	
Accuracy	±0.5% of full scale for voltage	±0.5% of full scale for Current

DISPLAY PAGES

3 Phase Voltmeter (WHMVD334) :

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	Hz ●	Frequency
4	ut h d	Harmonics - Voltage - THDV

3 Phase Ammeter (WHMA335) :

Page	Symbol	Parameters
1	A ●	Amps R, Y, B & Average
2	i t h d	Harmonics - Amps - THDI

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  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  key once again will bring the meter out of freeze mode.

PROGRAMMING

		Press Programming
		Set 2000
		Unit Address
		PT Primary (Only for 3Ø Voltmeter)
		PT Secondary (Only for 3Ø Voltmeter)
		CT Primary (Only for 3Ø Ammeter)
		CT Secondary (Only for 3Ø Ammeter)
		New Password
		Baud rate
		Parity
		Auto / manual Scroll
		No. of display rows
		Parameter update Speed
		
		To enter into address
		To change value of address (Default value 001)
		To Save
		
		To enter into PT Primary (Only For 3Ø Voltmeter)
		To change value of PT Primary (Default value 0001)
		To Save
		
		To enter into PT Secondary (Only For 3Ø Voltmeter)
		To change value of PT Secondary (Default value 0001)
		To Save
		
		To enter into CT Primary (Only For 3Ø Ammeter)
		To change value of CT Primary (Default value 0001)
		To Save

		To enter into CT Secondary (Only For 3Ø Ammeter)						
		To change value of CT Secondary (Default value 0001)						
		To Save						
								
		To enter into Change Password						
		To edit new password						
		To Save						
								
		To enter into Baud Rate						
		To set baud rate (1200, 2400, 4800, 9600)						
		To Save						
								
		To enter into Parity						
		To set parity (Even, Odd, None)						
		To Save						
								
		To enter into select Auto / Manual Scroll						
		To Disable / Enable Scrolling						
		To Save						
								
		To enter into select Display Rows						
		<table border="1"><tr><td>1 Parameter</td><td>3 Parameter</td><td>4 Parameter</td></tr><tr><td colspan="3">* Explanation Provided in Note Below</td></tr></table>	1 Parameter	3 Parameter	4 Parameter	* Explanation Provided in Note Below		
1 Parameter	3 Parameter	4 Parameter						
* Explanation Provided in Note Below								
		To Save						
								
		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						

NOTE :

3Ø Voltmeter (WHMVD334)		3Ø Ammeter (WHMA335)
1 Parameters :		
Page 1	VL-L Avg	I Avg
Page 2	VL-N Avg	THDI Avg
Page 3	HZ	
Page 4	THDV Avg	
3 Parameters :		
Page 1	VRY VYB VBR	IR IY IB
Page 2	VRN VYN VBN	THDR THDY THDB
Page 3	HZ	
Page 4	THDR THDY THDB	
4 Parameters :		
Page 1	VRY VYB VBR VL-L Avg	IR IY IB I Avg
Page 2	VRN VYN VBN VL-N Avg	THDR THDY THDB THDI Avg
Page 3	HZ	
Page 4	THDR THDY THDB THDV Avg	

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 :

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.