POWER ANALYZER LCD VIPS80L

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State	of Ar	t Micr	ocontr	oller E	Based	Design

4x4 Line,8x1 Line LCD display with Bar Graph	I.	
Site programmable CT ratio(Primary & Secondary)	I I√Ar	
Site programmable PT ratio (Primary & Secondary)	 	
True RMS measurement	 	
Password Protection	¦ √Po	
Maximum demand with Relay contact		
RS 485 Computer Interface	 	
Harmonics (Individual & Total)		
Auto Ranging	(
Universal Aux. Supply	 	
MECHANICAL DIMENSION Bezzel 96 mm	і √Ар К 	
	I √ R€	



Electrical Wiring / Connection Diagram



✓ Volts	: R Y (Phase - Phase)
1	YB (Phase - Phase)
	BR (Phase - Phase)
I I	Average (Phase - Phase)
1	RN (Phase - Neutral)
ı I	YN (Phase - Neutral)
1	BN (Phase - Neutral)
i	Average (Phase - Neutral)
I I √ Amps	: R Phase
	Y Phase
i	B Phase
 	Average
Power Factor	: R Phase
l	Y Phase
1	B Phase
	System
Active Power	: R Phase
(KW)	Y Phase
ĺ	B Phase
1	Total
Apparent power	: R Phase
KVA)	Y Phase
1	B Phase
ļ	Total
Reactive Power	: R Phase
(KVAr)	Y Phase
ļ	B Phase
1	Total
Frequency	: System
🗸 Phasor Angle (I	Phase wise)
I ✓ Phase Angle (Ph	nase wise)
I√ Import Maximun	n Demand
✓ Import Peak Max	kimum Demand
Export Maximun	n Demand
Export Peak Max	ximum Demand
✓ Import Active Er	nergy
I ✓ Import Reactive	-Inductive Energy
✓ Import Reactive	-Capacitive Energy
✓ Import Apparent	Energy
Export Active E	nergy
Export Reactive	-Inductive Energy
Export Reactive	-Capacitive Energy
I ✓ Export Apparent	t Energy
✓ Harmonics - Vol	ts - Total (THDV Phase wise & Avg)
I ✓ Harmonics - Am	ps - Total(THDI Phase wise & Avg)
I ✓ Harmonics - Vol	ts - Individual (upto 31⁵) on RS485
✓ Harmonics - Am	ps - Individual (upto 31 st) on RS485
l√ Load Hour - Imp I	port
🗸 Load Hour - Exp	ort

ON Hour(for which the meter is on with/withoutload)

PARAMETERS

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Scrolling of display pages using programming key

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	PHro	Phasor Angle between Voltage in degrees	
4	А	Amps R, Y, B & Total	
5	Hz	Frequency	
6	w	Watts (Active Power) R, Y, B & Total	
7	Var	VAr (Reactive Power) R, Y, B & Total	İ
8	VA	VA (Apparent Power) R, Y, B & Total	li
9	PF	Power Factor R, Y, B & System	i
10	PHI 0	Phase Angle between volt & Amps in degrees	
11	lād	Import Maximum Demand	! ,
12	I Pād	Import Peak Maximum Demand	
13	End	Export Maximum Demand	
14	EPnd	Export Peak Maximum Demand	
15	սեհժ	Harmonics - Voltage - THDV Phase wise & Avg	
16	ithd	Harmonics - Current - THDI Phase wise & Avg	
17	Onht	$ON\;Hour$ (duration for which the meter is ON with /without load)	
18	Ldti	Load Hour (timer) - Import	
19	LdŁE	Load Hour (timer) - Export	

Bar Graph

I1%, I2%, I3% to display the % of current in R, Y, B phases respectively.

8 Digit Energy Display

Scrolling of 8 digit display using esc key

Page	Symbol	Description
1	Imp Kwh	Import Active Energy
2	Imp –- MVarh	Import Reactive - Inductive Energy
3	Imp ⊣	Import Reactive - Capacitive Energy
4	Imp KVah	Import Apparent Energy
5	Exp Kwh	Export Active Energy
6	Exp_~aar⊱ KVarh	Export Reactive - Inductive Energy
7	Exp⊣├ KVarh	Export Reactive - Capacitive Energy
8	Exp KVah	Export Apparent Energy

NOTE The display pages can be scrolled using and by keys . The 8 digit energy display can be scrolled using key.

SPECIFICATIONS

Input	:	3 phase 4 wire / 1 phase 2 wire
Volts	:	Range 10-500v
Amps	:	0.015 to 6.00Amp
Burden	:	0.2 VA max. per phase for Voltage & Current Inputs 3 VA max. on Aux. Supply
Aux.Supply	:	90 - 270 VAC / DC
Display	:	4x4 Line,8x1 Line LCD display with Bar Graph
Computation Frequency Ambient Storage Humidity Weight Dimensions Panel Cutout Mounting	· · · · · · · · · · · · · · · · · · ·	True RMS 45 Hz - 65 Hz. -10 to 55°C -20 to 75°C < 95 % Non-condensing 280gms 96 X 96 X 55 mm (L x W x D) (90 $^{+1}_{-0}$)mm X (90 $^{+1}_{-0}$) mm Flush Mounting with side clamps.

Measurement range :

- : 10 500VAC L-L : 0.015A - 6.00Amp AC Display update : 1Sec : 45.0 to 65.0HZ Resolution : 0.1 for Energy , Auto ranging for other parameters. : <u>+0.5% of full scale for voltage</u>, Accuracy current, power, power factor. : +0.1% for Hz Frquency Energy
 - : class 1.0

