VERITEK

ENERGY METER

ENERGY METER
VIPS 84DIN (DIN RAIL)

TEST CERTIFICATE

Type : ENERGY METER (LED KWH)

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

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%	+/- 0.5%
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.: Dipesh

Date :

VERITEK ENGINEERING PVT. LTD.

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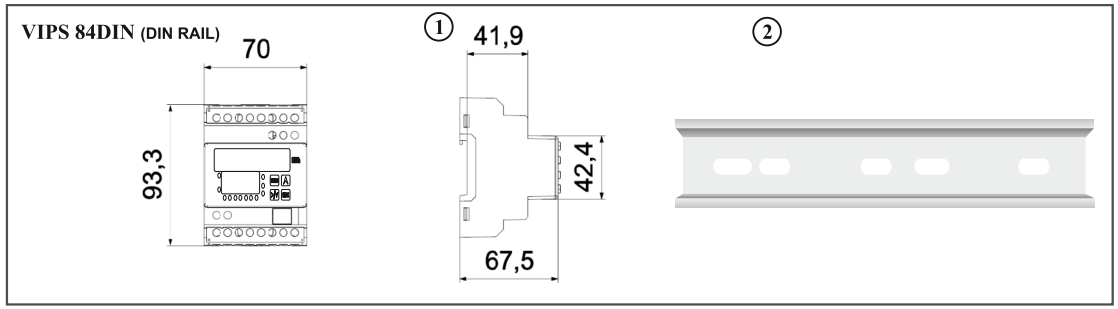
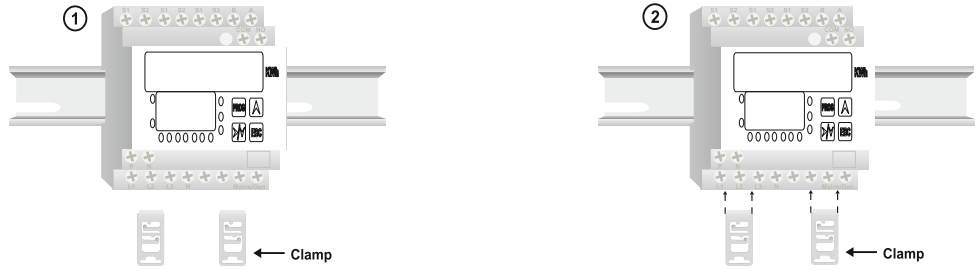
MECHANICAL DIMENSION

VIPS 84DIN (DIN RAIL)



MOUNTING ARRANGEMENT

VIPS 84DIN (DIN RAIL)



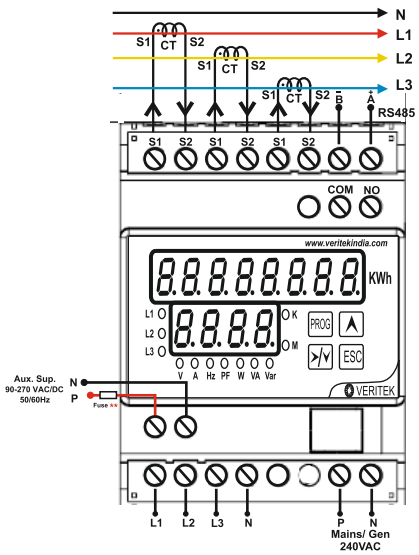
(1) Place on 35mm DIN Rail.

(2) Slide the Clamps Provided to Fix the Product on the Rail.

CONNECTION DETAILS

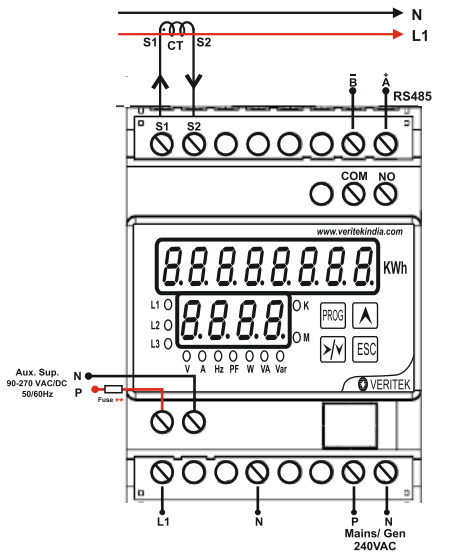
Electrical Wiring / Connection Diagram

3 Phase 4 Wire (96x96) - VIPS 84DIN



Electrical Wiring / Connection Diagram

1 Phase 2 Wire (96x96) - VIPS 84DIN



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

SPECIFICATION

Input	: 3 Phase 4 Wire / 1 Phase 2 Wire
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 { 0.39 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	: 215 gms
Dimesions	: 105 x 90 x 77 mm (L x W x D)
Mounting	: DIN Rail Mounting Type (35 mm)
Portection Degree	: IP20(Terminals) IP54 (Front Of Housimg)

MEASUREMENT RANGES

Volts	: 10 - 300VAC L-N : 10 - 500VAC L-L
Amp	: 0.015A - 6.00Amp AC : 0.18A- 63Amps Direct 60Amps Optional
Display Update	: 1 Sec
Resolution	: 0.1kWh 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

PARAMETERS

Active Energy

Volts : RY (Phase - Phase)
: YB (Phase - Phase)
: BR (Phase - Phase)
: RN (Phase - Neutral)
: YN (Phase - Neutral)
: BN (Phase - Neutral)

Amps : R Phase
: Y Phase
: B Phase

Power Factor : R Phase
: Y Phase
: B Phase

Active Power (KW) : R Phase
: Y Phase
: B Phase

Apparent Power (KWA) : R Phase
: Y Phase
: B Phase

Reactive Power (KWA) : R Phase
: Y Phase
: B Phase

Frequency : System

Harmonics - Volts - Total (THDV Phase Wise)

Harmonics - Amps - Total (THDI Phase Wise)

Load Hour

DISPLAY PAGES

Page	Symbol	Parameters
1	V	Voltage (L-L) RY, YB, BR
2	V	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
9	V	Harmonics - Voltage - THDV (V led / flashes)
10	A	Harmonics - Current - THDI (I led / flashes)
11	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.

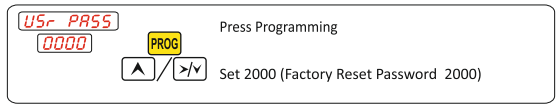
MANUAL SCROLL MODE :

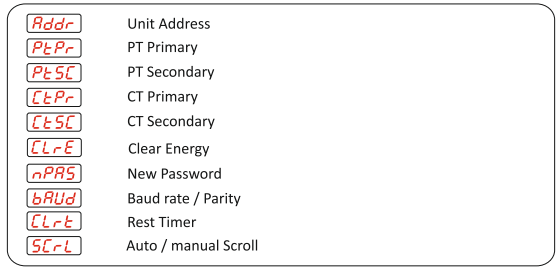
In this mode the display shows parameter of the selected page one after another.
The parameter of next / previous page can be viewed by pressing [^] or [>/v] keys.

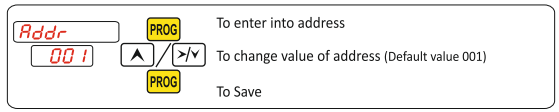
AUTO SCROLL MODE :

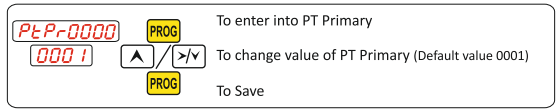
In this mode the display shows parameter of page 1 then scroll to page 2 and so on.

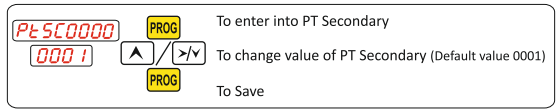
PROGRAMMING

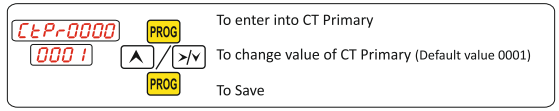


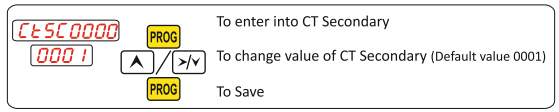


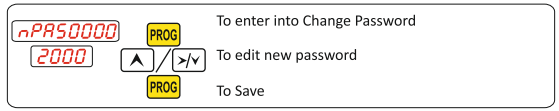


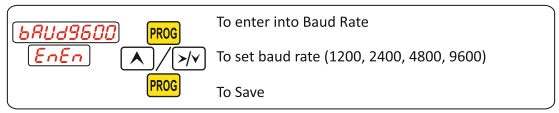


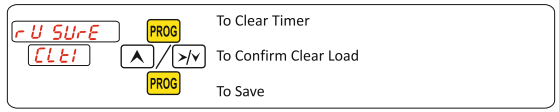


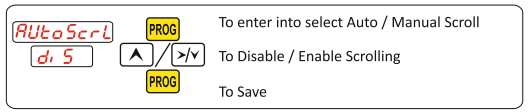


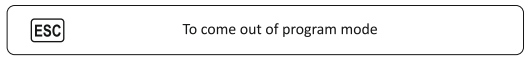












⚠ SAFETY PRECAUTIONS :

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.