

1 PHASE AMMETER



FEATURES

State of Art Microcontroller Based Design

1 Line 4 Digit ultra bright LED display

Site programmable CT ratio

True RMS measurement

Harmonics THDI

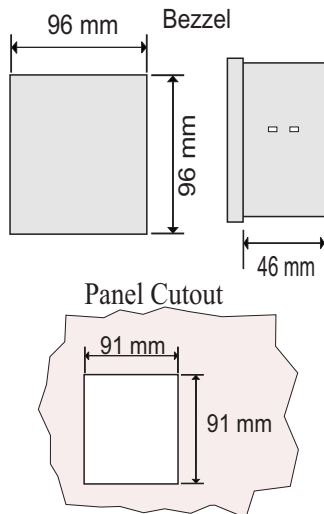
Auto Ranging

Universal Aux. Supply

PARAMETERS

- ✓ Amps
- ✓ Frequency
- ✓ THDI

MECHANICAL DIMENSION



DISPLAY PAGES

There are two modes of operation :

- 1) Fixed Mode : In this mode the display shows current.
- 2) Auto Scroll Mode : In this mode the display shows the parameters in the below fashion.

Page	Symbol	Parameter
1	Cur	Current
2	Freq	Frequency
3	THDI	Harmonics Current THDI

Note : For programming there is a push button behind the meter at slot no. 4

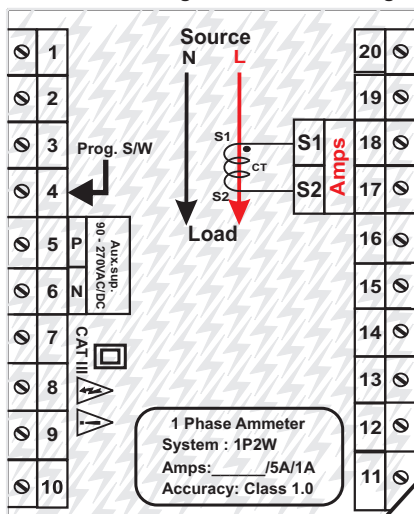
SPECIFICATIONS

Input : 1phase 2 wire
Amps : 0.015 to 6.00 Amps
Burden : 0.2 VA max. per input for Current
3 VA max. on Aux. Supply
Aux. Supply : 90 - 270 VAC / DC
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 : 150gms
Dimensions : 96 X 96 X 46 mm (L x W x D)
Panel Cutout: (90⁺¹₋₀)mm X (90⁺¹₋₀) mm
Mounting : Flush Mounting with side clamps.

Measurement range :

Amps : 0.015 to 6.00 Amps
Display update : 1Sec
Hz : 45.0 to 65.0HZ
Resolution : Auto ranging
Accuracy : ±0.5% of full scale for current
Frequency : ± 0.1% for Hz

Electrical Wiring / Connection Diagram



PROGRAMMING

- 1) Press the push button for 3 seconds behind the meter (long press) at slot no. 4 to enter into programming mode.
- 2) The following programming menu are available:

Menu	Symbol	Description
1	CTPr	CT Ratio
2	SESL	Select Scroll
3	USPd	Scroll Speed
4	ESC	Escape

- a) To move from one menu to another, short press push key.
- b) To enter into a particular menu, long press for 3 seconds.

Menu 1 : CT Ratio

When you enter the menu, the following options are available :

Option	Explanation
1	5/5
5	25/5
6	30/5
10	50/5
12	60/5
15	75/5
16	80/5
20	100/5
25	125/5
30	150/5
40	200/5
50	250/5, 50/1
60	300/5, 60/1
80	400/5, 80/1
100	500/5, 100/1
120	600/5, 120/1
125	625/5, 125/1
150	750/5, 150/1
160	800/5, 160/1
200	1000/5, 200/1
240	1200/5, 240/1

Option	Explanation
250	1250/5, 250/1
300	1500/5, 300/1
320	1600/5, 320/1
400	2000/5, 400/1
500	2500/5, 500/1
600	3000/5, 600/1
640	3200/5, 640/1
800	4000/5, 800/1
1000	5000/5, 1000/1
ESC	To Escape page

- 1) Long press the push key to set the particular CT ratio. "SAFE" appears.
- 2) Short press the push key to move from one option to another.

Menu 2 : Select Scroll

When you enter the menu, the following options are available :

Option	Explanation
ds	Disables scrolling enters Fixed mode
En	Enables scrolling enters auto scroll mode
ESC	To escape page

- 1) Long press the push key to set the particular option for scroll. "SAFE" appears.
- 2) Short press the option to move from one option to another.

Menu 3 : Scroll Speed

When you enter the menu, the following options are available :

Option	Explanation
AUC	Average
FAST	Fast
uFAST	Very Fast
ESC	To Escape page
uSLo	Very Slow
SLo	Slow

- 1) Long press the push key, to set scroll speed as required "SAFE" appears.
- 2) Short press the push key to move from one option to another.

Menu 4 : Escape Programming

Long press escape to escape programming mode "done" appears as confirmation.

Note : If the meter is inactive in programming mode for 30 seconds, it will come out of programming mode.

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 :

- 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.