

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

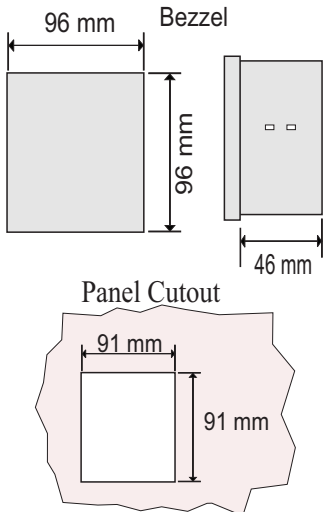
PARAMETERS

✓ 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	C_r	Current
2	F_rE_q	Frequency
3	i_hd	Harmonics Current THDI

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

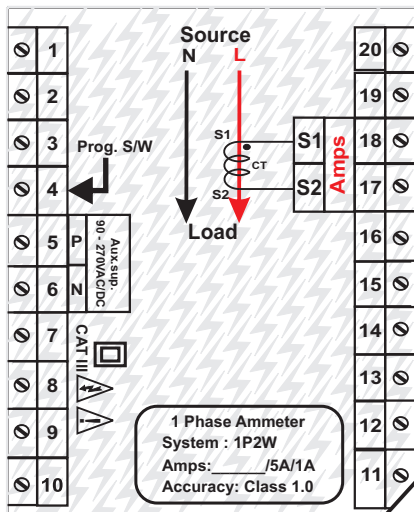
SPECIFICATIONS

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	C_rP_r	CT Ratio
2	S_cR_L	Select Scroll
3	U_SP_d	Scroll Speed
4	E_SC	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	Option	Explanation
1	5/5	250	1250/5, 250/1
5	25/5	300	1500/5, 300/1
6	30/5	320	1600/5, 320/1
10	50/5	400	2000/5, 400/1
12	60/5	500	2500/5, 500/1
15	75/5	600	3000/5, 600/1
16	80/5	640	3200/5, 640/1
20	100/5	800	4000/5, 800/1
25	125/5	1000	5000/5, 1000/1
30	150/5	E_SC	To Escape page
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		

1) Long press the push key to set the particular CT ratio. "S_RU_E" 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
d_r5	Disables scrolling enters ?xed mode
E_r	Enables scrolling enters auto scroll mode
E_SC	To escape page

1) Long press the push key to set the particular option for scroll. "S_RU_E" 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
A_UC	Average
F_RS_T	Fast
u_FR_S	Very Fast
E_SC	To Escape page
u_SL_o	Very Slow
S_Lo	Slow

1) Long press the push key, to set scroll speed as required "S_RU_E" 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 "d_on_E" appears as con?rmation.

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

Safety Precautions :

All safety related codi?cations, 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 speci?ed 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. Con?m that all connection are correct.

Caution :

- 1) To ensure the safe operation of unit , check the wiring and connections.