

**13.0 WARRANTY:**

- 13.1 Standards warranty 12 months from date of purchase.
- 13.2 Warranty voids if overload connected to the Control Panel.
- 13.3 Warranty covers against only manufacturing defects.
- 13.4 Keep this warranty card safely.
- 13.5 In case of water found inside warranty voids.
- 13.6 Follow the user manual instructions strictly before use.

Customer Name: .....

Ph.No: .....

Dealer / Distributor: .....

Sign: .....

Stamp: .....

Date: .....

Product Serial No.: .....

Product Model No.: .....

**Dealer Stamp:**

**Customer Support:**



# **USER MANUAL & WARRANTY CARD**

## **RO CONTROL PANEL AP 1-1, 1-3 & 3-3**

**Models & Features:**

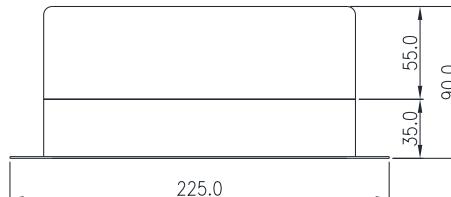
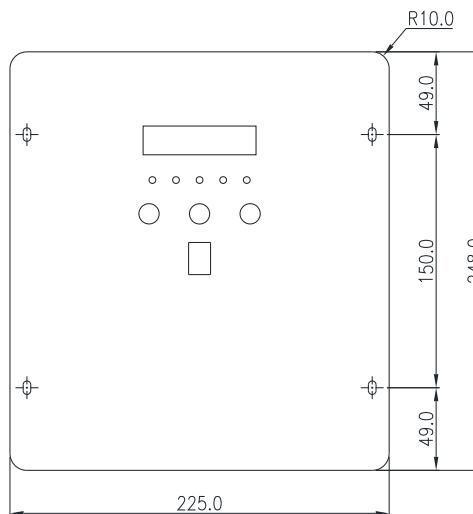
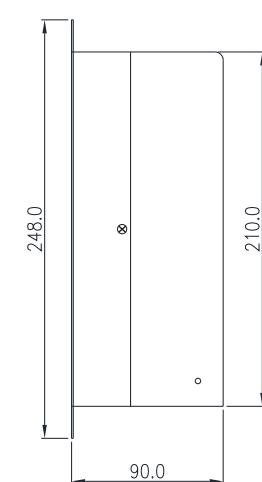
AP 1:1 TDS, VOLTAGE &amp; CURRENT SENSING

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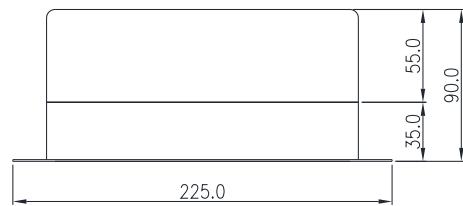
**12.0 MECHANICAL 1-3 & 3-3 ENCLOSURE DIMENSIONS:**

12.1 Dimensions: Length x Width x Height = 185 x 90 x 210 mm.

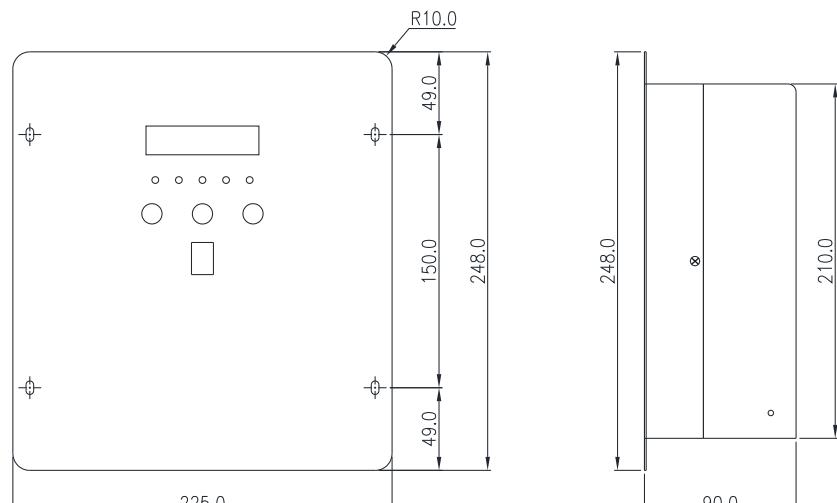
**TOP VIEW****FRONT VIEW****SIDE VIEW**

## 11.0 MECHANICAL 1-1 ENCLOSURE DIMENSIONS:

11.1 Dimensions: Length x Width x Height = 185 x 90 x 210 mm.



TOP VIEW



FRONT VIEW

SIDE VIEW

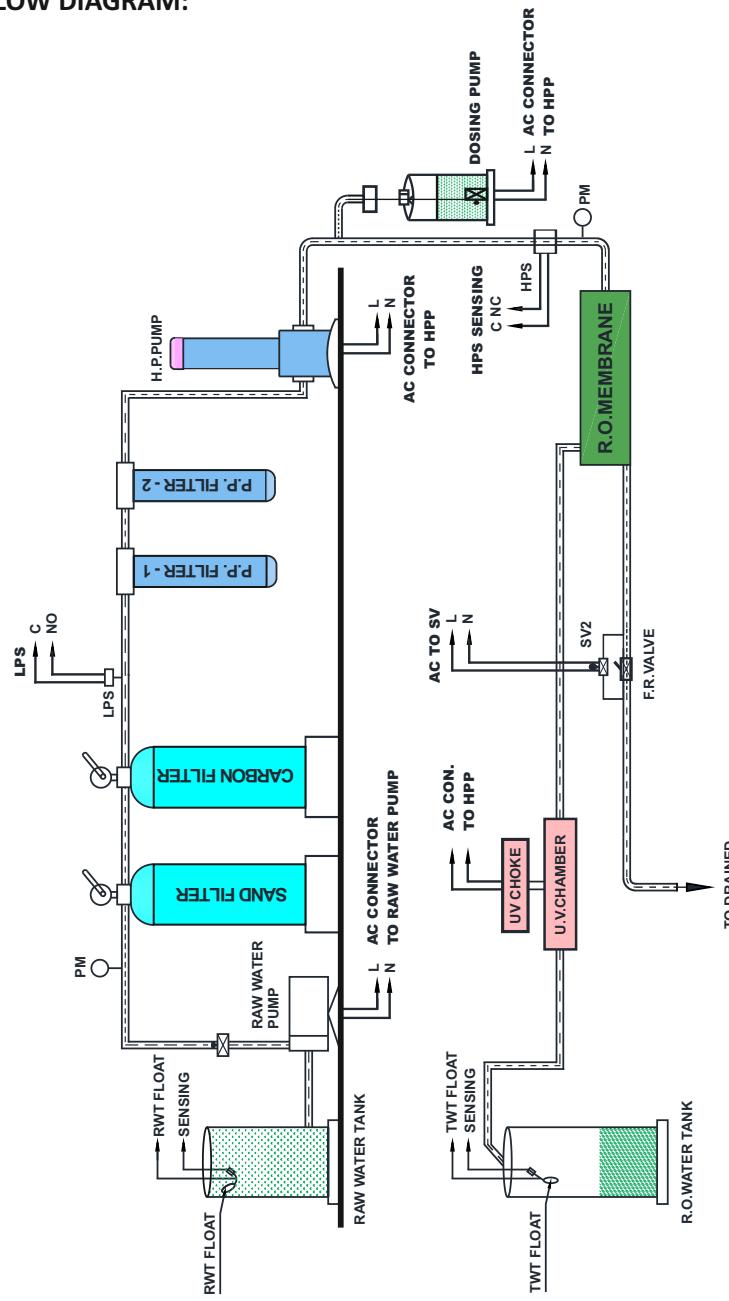
## 1.0 INSTALLATION & SAFETY INSTRUCTIONS:

To Comply with the published safety standards, The following must be served when using this control panel.

- Applicable Models: AP 1-1, 1-3 & 3-3 .
- Allow sufficient space around the control panel for proper air circulation.
- RO Control Panel designed to operate for “ **INDORE USE ONLY** ” for RO Plant.
- Operating voltage for **single phase 230V & 3 - phase 440V** only.
- High voltage inside, to be serviced by trained persons only.
- Protect the RO control from the water dropping.
- Do not connect more the specified load on RWP & HPP.
- Connect the proper earthlings.
- Connect the input connecting wires 2.5 Sqmm.
- Connect the proper phase sequence RYB & Neutral ( For 1-3 & 3-3 Model).
- Fix the panel properly with the nut bolts.
- Ro Control Panel can be fixed on the plain surface.

**Note: Read manual completely before installing the RO Panel.**

## 2.0 FLOW DIAGRAM:

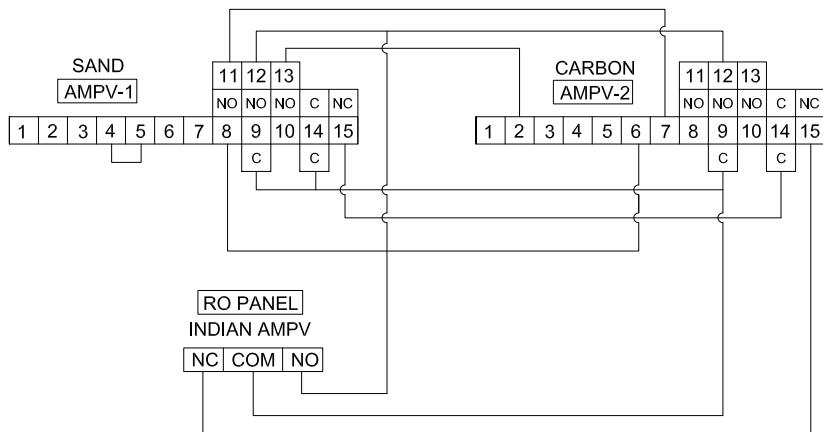


## 10.0 TROUBLE SHOOTING GUIDE LINES:

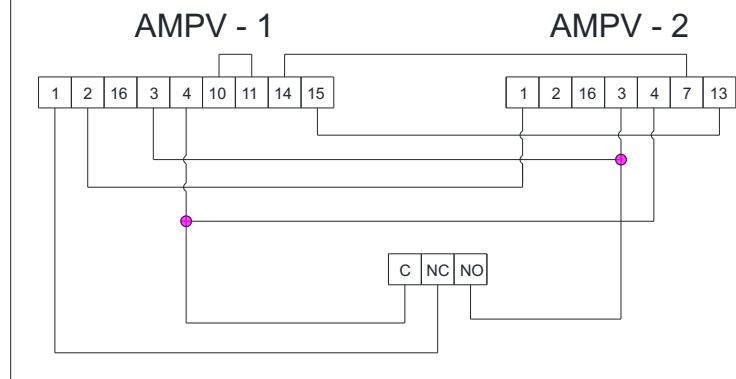
Sl.No.	Message ON Display	Cause & Action
1.	Raw Water Tank Empty	<ul style="list-style-type: none"> <li>• Actually tank is empty.</li> <li>• Floaty is not connected.</li> <li>• Check the float &amp; wires.</li> </ul>
2.	LPS Failed	<ul style="list-style-type: none"> <li>• Pressure lower then the set value.</li> <li>• Check the input water pressure.</li> <li>• Check the LPS Connections.</li> </ul>
3.	HPS1	<ul style="list-style-type: none"> <li>• Pressure Higher then the set Value .</li> <li>• Check the sand, Carbon Filters.</li> <li>• Check the HPS1 Connections.</li> </ul>
4	Treated Water Tank Full	<ul style="list-style-type: none"> <li>• Actually tank is Full.</li> <li>• Floaty is not connected.</li> <li>• Check the float &amp; wires.</li> </ul>
5.	RWP Overload	<ul style="list-style-type: none"> <li>• Check the Pump Amps rating.</li> </ul>
6.	HPP Overload	<ul style="list-style-type: none"> <li>• Check the Pump Amps rating.</li> </ul>
7.	Low Voltage	<ul style="list-style-type: none"> <li>• Check Low Voltage set point Or Low Voltage.</li> </ul>
8.	High Voltage	<ul style="list-style-type: none"> <li>• Check High Voltage set point or High Voltage.</li> </ul>

## 9.0 RO CONTROL PANEL CONFIGURE WITH INDIAN MULTIPORT VALVE:

**INDIAN MULTIPORT VALVE CONNECTION DIAGRAM**

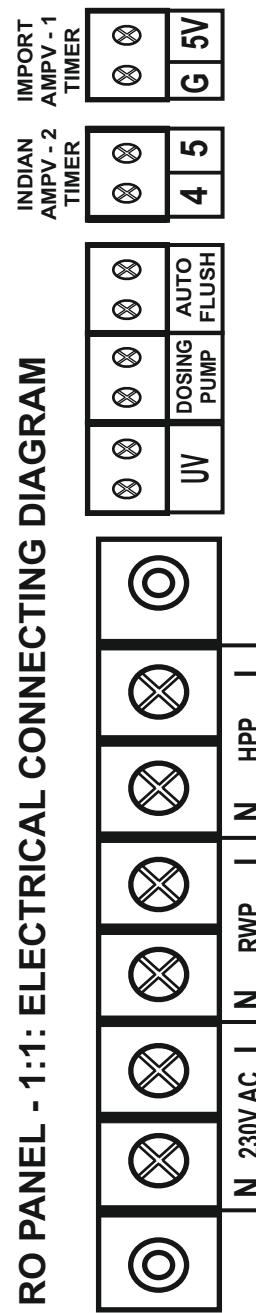


**40NB MULTIPOINT VALVE :**



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## 3.0 CONNECTION DIAGRAM:



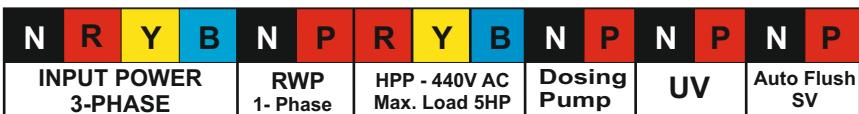
**RO PANEL - 1:1: ELECTRICAL CONNECTING DIAGRAM**

**SENSING DIAGRAM PANEL: 1-1**

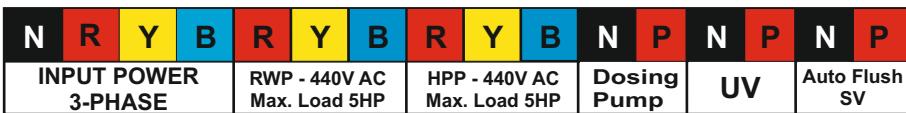
TDS	-	S	+	-	S	+	NO	NC	NO	C	NO	C	NO	C	NO	C	RWT
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

05

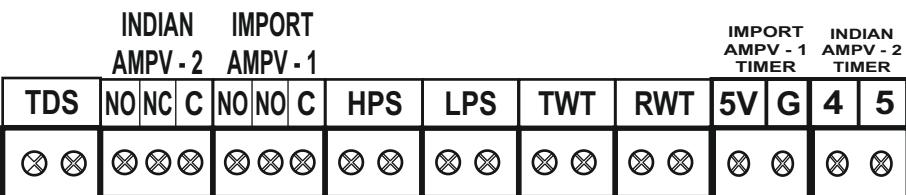
#### 4.0 RO PANEL 1-3 : ELECTRICAL CONNECTION DIAGRAM



#### 5.0 RO PANEL 3-3 : ELECTRICAL CONNECTION DIAGRAM

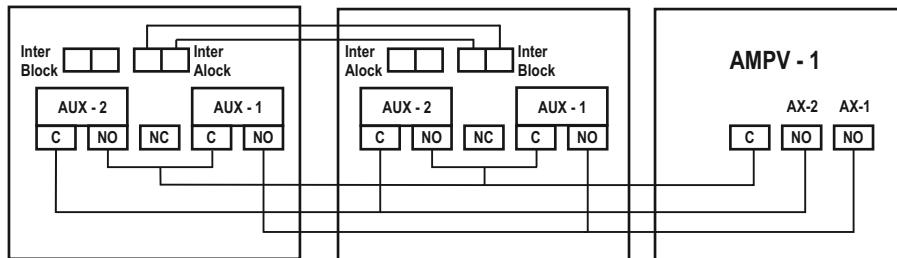


#### 6.0 RO PANEL 1-3 & 3-3 : SENSING CONNECTION DIAGRAM



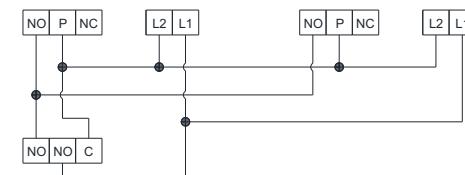
#### 8.0 RO CONTROL PANEL CONFIGURE WITH 2-MULTIPOINT VALVE:

AUTO MULTIPOINT VALVE - 1    AUTO MULTIPOINT VALVE - 2    RO CONTROL PANEL



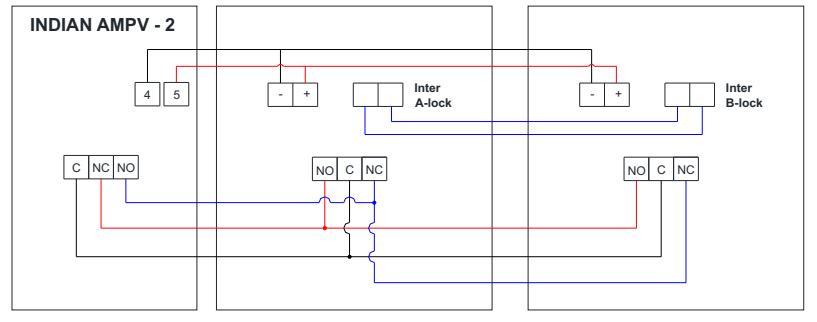
#### IMPORT MULTIPORT VALVE :

AMPV - 1    AMPV - 2



#### DICOM AUTO MULTIPOINT VALVE CONNECTION DIAGRAM:

RO CONTROL PANEL    AUTO MULTIPOINT VALVE - 1    AUTO MULTIPOINT VALVE - 2



**e. SET DEFAULT SETTING: (Factory Setting will be updated Automatically)**

- Set Voltage**
  - Set Current**
  - Auto Ampere**
  - Panel Setting**
  - Default Setting**
  - Exit**
- Press Down (▽) Key.  
Cursor select Default Setting Mode.
- 
- Set Voltage**
  - Set Current**
  - Auto Ampere**
  - Panel Setting**
  - Default Setting**
  - Exit**
- Press Menu Key.  
Display Shows Default setting mode.
- 
- Long Press Menu Key For Factory Setting**
- Long Press Menu Key for 5 Seconds.  
Default setting automatically save.  
Press back key to exit.

**e. EXIT :**

- Set Voltage**
  - Set Current**
  - Auto Ampere**
  - Panel Setting**
  - Default Setting**
  - Exit**
- Press Down (▽) Key.  
Cursor select Default Setting Mode.
- 
- Set Voltage**
  - Set Current**
  - Auto Ampere**
  - Panel Setting**
  - Default Setting**
  - >> Exit**
- Press Menu Key.  
Display Shows Home Page.

**7.0 OPERATING INSTRUCTIONS:****7.1 KEY FUNCTIONS:****Menu/  
Manual  
Mode**

Helps to enter into settings.  
Confirmation of selection of your choice.  
Also works as Shifted manual mode .



Upward Movement.  
(Manual Mode Press UP Key RWP ON)  
Increment of numbers & alphabets.



Downward Movement.  
(Manual Mode Press DOWN Key HPP ON)  
Decrement of numbers & alphabets.

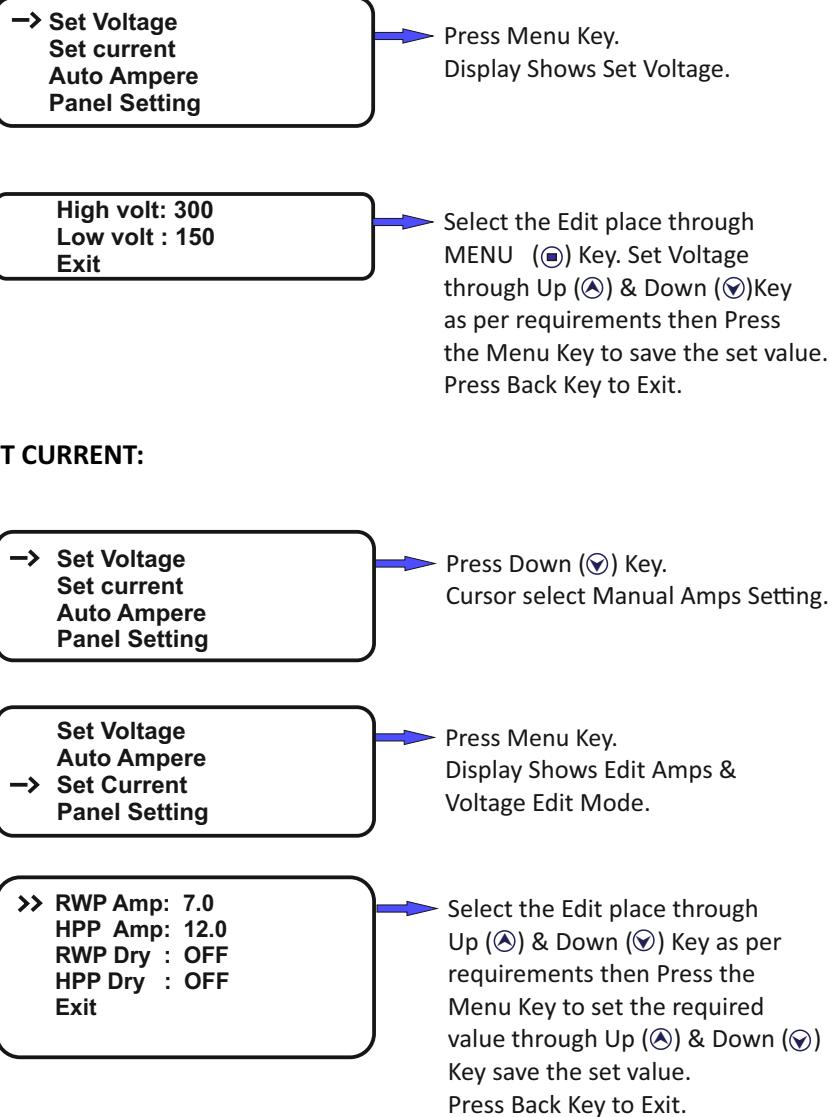
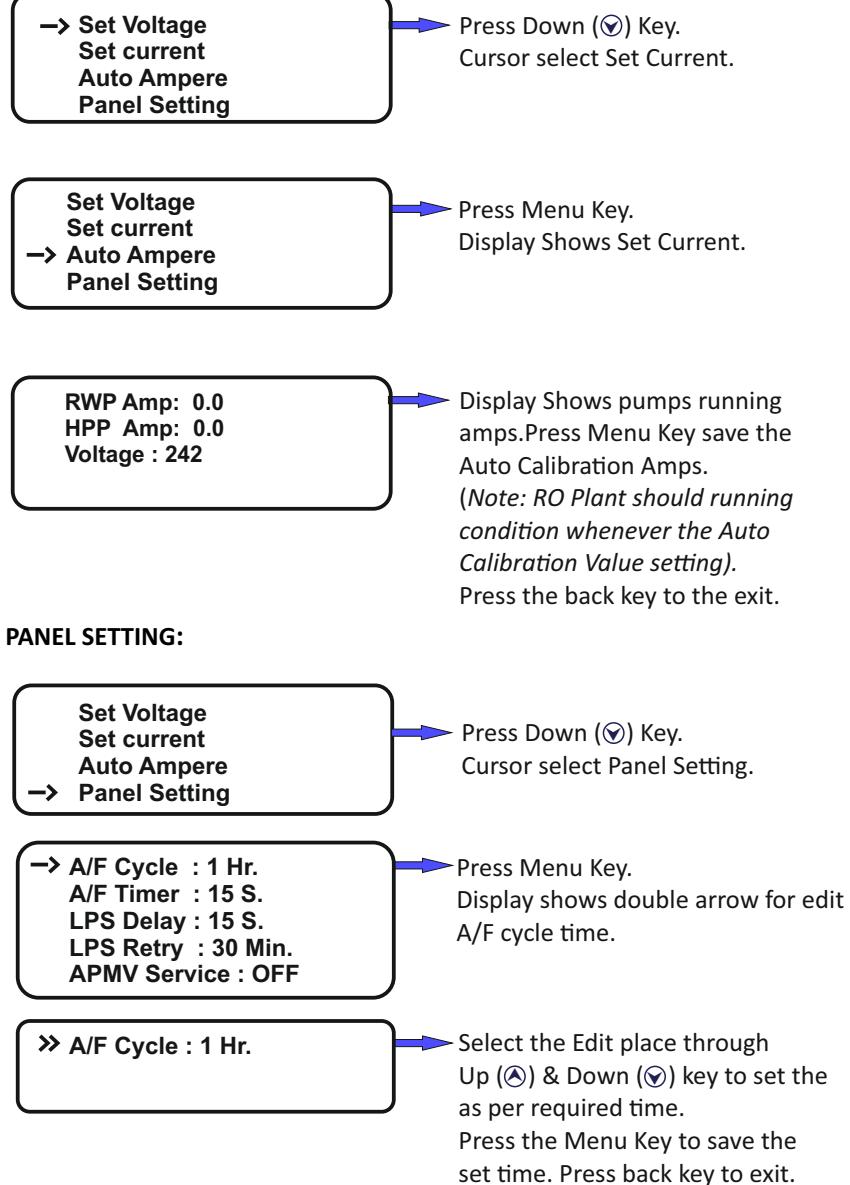
**7.2 SETTINGS:**

**RWP : OFF**  
**RWP Amp : 0.0**

Press & Hold Menu Key for 5 Sec.  
Display Shows \*\* Settings\*\*

**7.3 PROGRAMMABLE FEATURES:**

- a. Set Voltage.
- b. Set Current.
- c. Auto Amps Setting.
- d. Panel Setting.
- e. Default Setting.
- f. EXIT.

**a. SET VOLTAGE:****c. AUTO AMPERE SETTING :**

(Note: Remaining all settings follow as per the A/F cycle time settings)