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:

MNL / 217 / 04

USER MANUAL & WARRANTY CARD

AP 1-1, 1-3, 3-3 PLUS & AP 1-1, 1-3, 3-3 GSM PLUS RO CONTROL PANEL

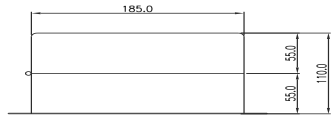
Models & Features:

AP 1:1 PLUS GSM, TDS, VOLTAGE & CURRENT SENSE

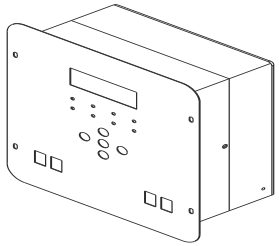
Table of Contents:

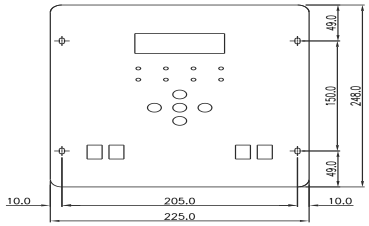
11.0 MECHANICAL 1-1 ENCLOSURE DIMENSIONS:

11.1 Dimensions: Length x Width x Height = 185 x 110 x 210 mm.

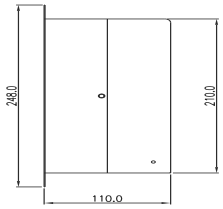


TOP VIEW





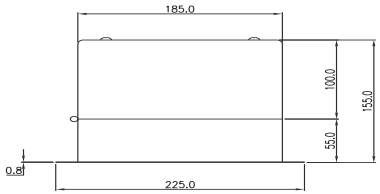
FRONT VIEW

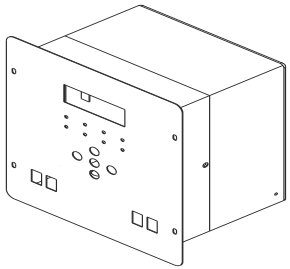


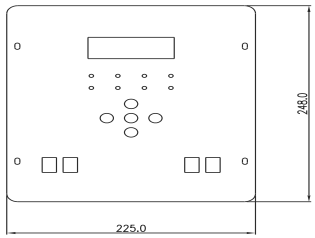
RIGHT SIDEVIEW

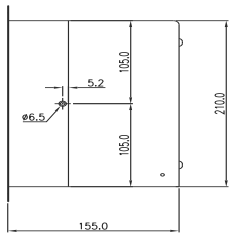
12.0 MECHANICAL 1-3 ENCLOSURE DIMENSIONS:

12.1 Dimensions: Length x Width x Height = 185 x 155 x 210 mm.









10.0 TROUBLE SHOOTING GUIDE LINES:

Sl.No.	Message ON Display	Cause & Action
1.	Raw Water Tank Empty	• Actually tank is empty. • Floaty is not connected. • Check the float & wires.
2.	LPS Failed	• Pressure lower then the set value. • Check the input water pressure. • Check the LPS Connections.
3.	HPS1	• Pressure Higher then the set Value . • Check the sand, Carbon Filters. • Check the HPS1 Connections.
4.	Dosing	• Actually tank is empty. • Floaty is not connected. • Check the float & wires.
5.	Treated Water Tank Full	• Actually tank is Full. • Floaty is not connected. • Check the float & wires.
6.	RWP Overload	• Check the Pump Amps rating.
7.	HPP Overload	• Check the Pump Amps rating.
8.	Low Voltage	• Check Low Voltage set point Or Low Voltage.
9.	High Voltage	• Check High Voltage set point or High Voltage.
10.	GSM	• Check GSM Signal and SIM balanced. • Check antenna wire.
11.	Flow Sensor	• Check flow sensor wiring & Flow • sensor.

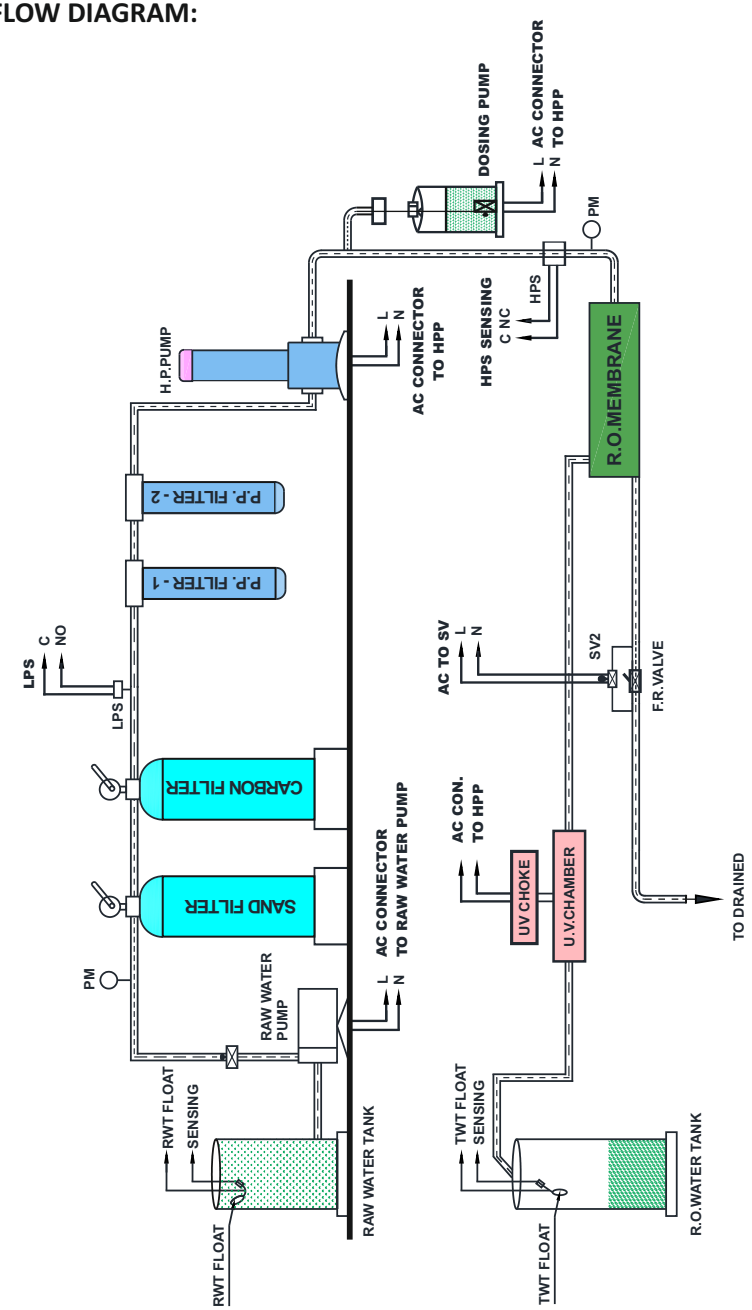
1.0 INSTALLATION & SAFETY INSTRUCTIONS:

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

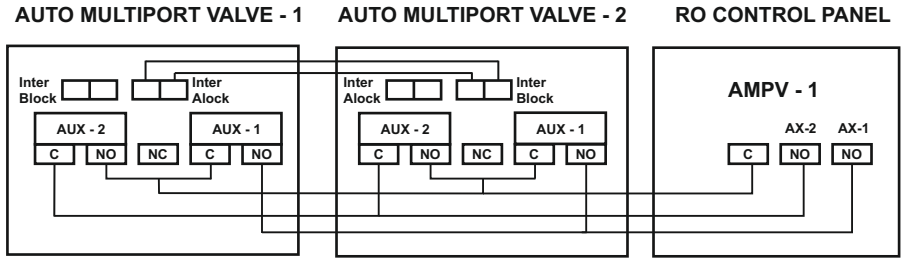
- **Applicable Models: AP 1-1, 1-3, 3-3 Plus & AP GSM 1-1, 1-3, 3-3 Plus .**
- Allow sufficient space around the control panel for proper air circulation.
- RO Control Panel designed to operate for **" INDORE USE ONLY "** for RO Plant.
- Operating voltage for **single phase 230V & 3 - phase 440V** only.
- 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:

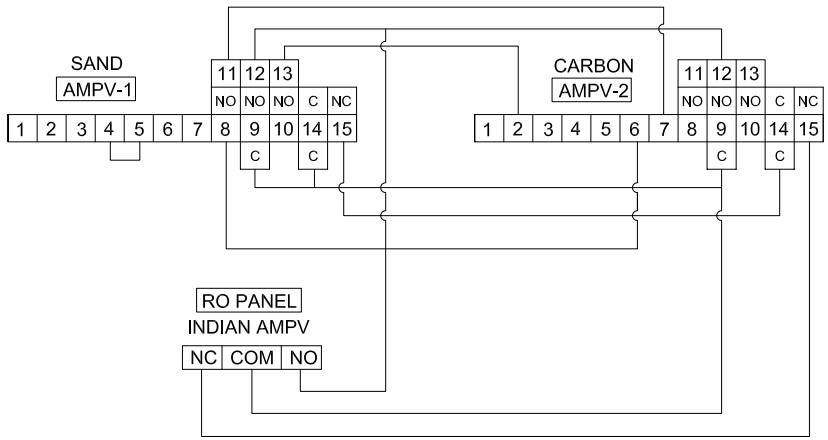


8.0 RO CONTROL PANEL CONFIGURE WITH 2-MULTIPORT VALVE:



9.0 RO CONTROL PANEL CONFIGURE WITH INDIAN MULTIPORT VALVE:

INDIAN MULTIPORT VALVE CONNECTION DIAGRAM



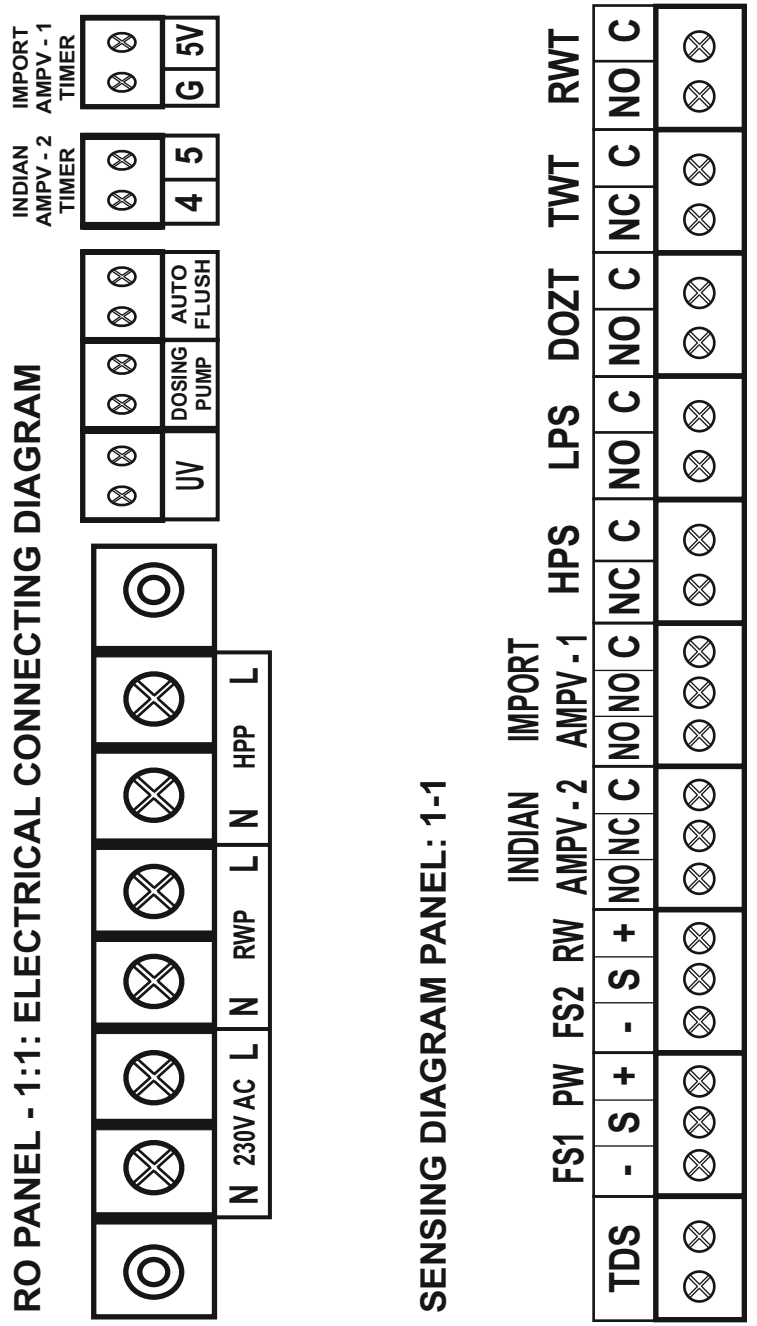
g. GSM SCREEN VIEW SETTING:

→ Date & Time Setting Auto Ampere Setting Edit Amp & Voltage Setting Flow Sensor Setting	Press Down (⊛) Key. Cursor select GSM Screen View
Panel Setting GSM Setting → GSM Screen View Default Setting	Press Menu Key. Display Shows GSM Screen View .
	Press Menu Key then Long Press the Up (⊛) Key for 10 Sec. then back automatically message will send to admin number.

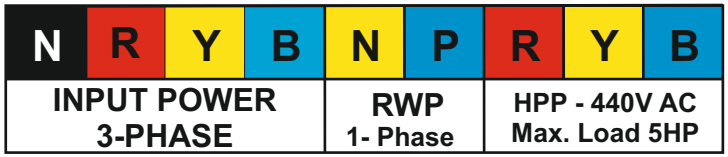
h. SET DEFAULT SETTING: (Factory Setting will be updated Automatically)

→ Date & Time Setting Auto Ampere Setting Edit Amp & Voltage Setting Flow Sensor Setting	Press Down (⊛) Key. Cursor select Default Setting Mode.
Panel Setting GSM Setting GSM Screen View → Default Setting	Press Menu Key. Display Shows Default setting mode.
Long Press Button 5 For Factory Setting	Long Press Menu Key for 5 Seconds. Default setting automatically save. Press back key to exit.

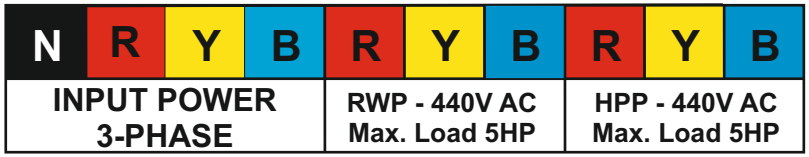
3.0 CONNECTION DIAGRAM:



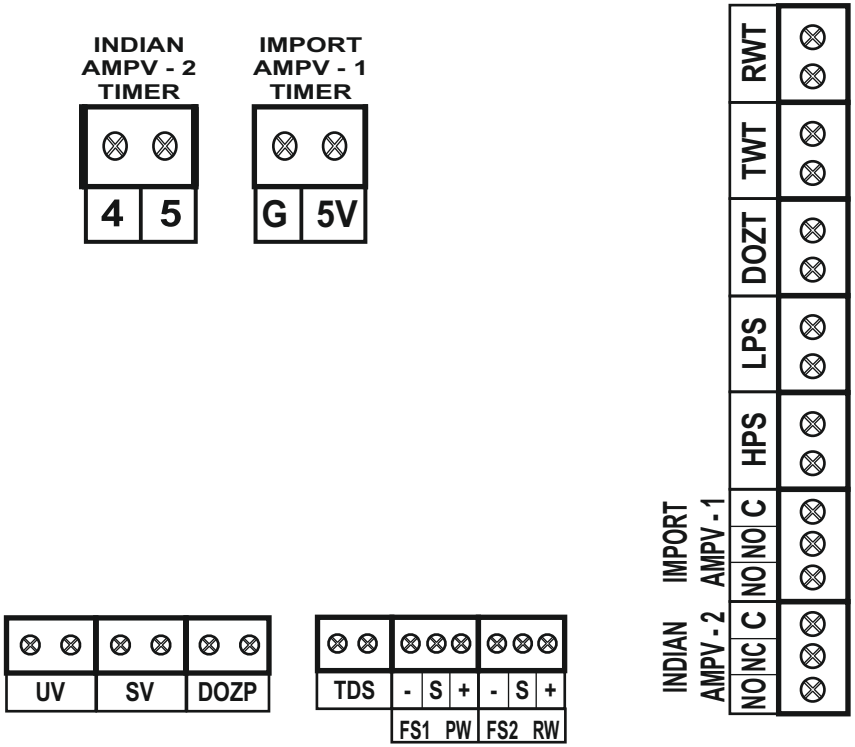
4.0 RO PANEL 1-3 : ELECTRICAL CONNECTION DIAGRAM



5.0 RO PANEL 3-3 : ELECTRICAL CONNECTION DIAGRAM



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



f. GSM SETTING: (Plant information will be update for given 2 phone number's)

→ Date & Time Setting
Auto Ampere Setting
Edit Amp & Voltage Setting
Flow Sensor Setting

Press Down (⊛) Key.
Cursor select GSM edit Mode.

Panel Setting
→ GSM Setting
GSM Screen View
Default Setting

Press Menu Key.
Display Shows GSM Number Edit.

→ 9963000150 Admin
9955555555 Operater
Set SMS Time 12 Hr.
Server Time Real

Press Menu Key.
Display shows double arrow for edit 1st user number.

» 9963000150 Admin
9955555555 Operater
Set SMS Time 12 Hr.
Server Time Real

Select the Edit place through Scroll (⊛) Key. Set the required number through Up (⊛) & Down (⊛) key as per requirements. Press the Menu Key to save the set number.

(Note: Follow the same for 2nd user number as 1st user number and through the 1st given phone number only the plant can be controlled for remote operating)

9963000150 Admin
9955555555 Operater
→ Set SMS Time 12 Hr.
Server Time Real

Press the Down (⊛) Key.
Select SMS Time edit mode.

9963000150 Admin
9955555555 Operater
» Set SMS Time 12 Hr.
Server Time Real

Press the Menu Key.
Display shows SMS Time edit.
Set the required time through Up (⊛) & Down (⊛) key then press the Menu Key to save the set time.

(Note: Follow the same for Server Time as per the SMS Time)

RO Capacity 1000
F1 250 .
F2 250
→ Please Wait 1 Minute

Press Menu Key.
Wait for 1 Minute for Auto
Calibration process to be save.

(Note: RO Plant should runningcondition whenever the AutoCalibration Value setting)
After 1 Minute Auto calibrationBuzzer will give the beep so that flow of water will automaticallysaved (FS1 & FS2 to connected).Then press the back key to the exit.

e. PANEL SETTING:

→ Date & Time Setting
Auto Ampere Setting
Edit Amp & Voltage Setting
Flow Sensor Setting

Press Down (⊛) Key.
Cursor select Panel Setting edit Mode.

→ Panel Setting
GSM Setting
GSM Screen View
Default Setting

Press Menu Key.
Display Shows Panel Setting.

→ A/F Cycle 1 hr
A/F Timer 20 Sec.
LPS Delay Time 15 Sec.
LPS Retry Time 30 Min.
RWTDS Calibration 1.64
PWDTS Calibration 1.64
TDS Alert 500
AMPV Service Time OFF

Press Menu Key.
Display Shows Auto Flush Edit.

→ Flush Cycle 4 hr

Press Menu Key.
Display shows double arrow for edit cycle time.

» Flush Cycle 4 hr

Select the Edit place through
Up (⊛) & Down (⊛) key to set the as per required time.
Press the Menu Key to save the set time. Press back key to exit.

(Note: Remaining all settings follow as per the flush cycle time settings)

7.0 OPERATING INSTRUCTIONS:

7.1 KEY FUNCTIONS:

Menu	Helps to enter into settings. Confirmation of selection of your choice. Also works as CENTER KEY FUNCTION .
Back	Previous Menu to Service Mode. One step backwards. Also works as LEFT KEY FUNCTION .
↑ **UP**	Upward Movement. Increment of numbers & alphabets.
↓ **Down**	Downward Movement. Decrement of numbers & alphabets.
→ **Scroll**	Helps to Left & Right Moment and Edit of the Numbers and Alphabets.

7.2 SETTINGS:

WELCOME XXXXX V.0119
COMPANY NAME
LOCATION
CONTACT : XXXXXXXXXX

Press & Hold Menu Key for 5 Sec.
Display Shows Enter Password.

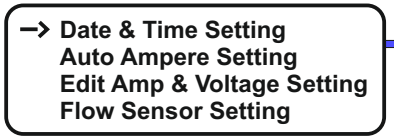
Enter Password.

Enter the Password.
Press (⊛+⊛+⊛+⊛)
Display Shows Menu Option.

7.3 PROGRAMMABLE FEATURES:

a. Date & Time Setting.
b. Auto Amps Setting.
c. Edit Amps & Voltage Setting
d. Flow Sensor Setting.
e. Panel Setting.
f. GSM Setting.
g. GSM Screen View.
h. Default Setting.

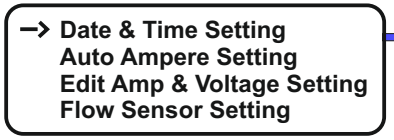
a. EDIT DATE AND TIME SETTING:



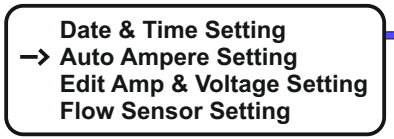
Press Menu Key.
Display Shows Date & Time Edit.

Select the Edit place through Scroll (⊛) Key.Set the Date & Time through Up (⊛) & Down (⊛)Key as per requirements then Press the Menu Key to save the set value.
Press Back Key to Exit.

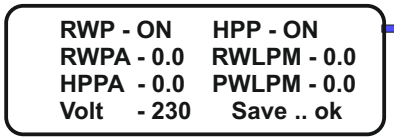
b. AUTO AMP SETTING:



Press Down (⊛) Key.
Cursor select Auto Amps edit.

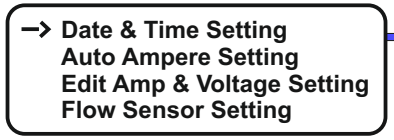


Press Menu Key.
Display Shows Auto Amps sett.

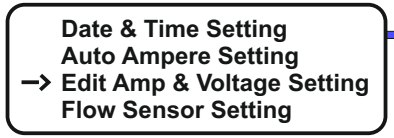


Display Shows pumps running amps.Press Menu Key save the Auto Calibration Amps.
(*Note: RO Plant should running condition whenever the Auto Calibration Value setting).*
Press the back key to the exit.

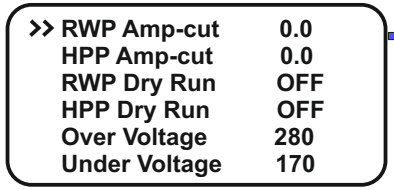
c. EDIT AMPS & VOLTAGE SETTING:



Press Down (⊛) Key.
Cursor select Manual Amps Setting.

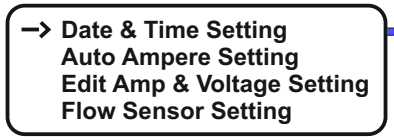


Press Menu Key.
Display Shows Edit Amps & Voltage Edit Mode.

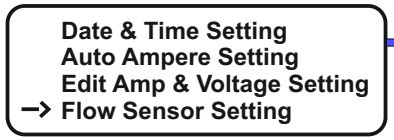


Select the Edit place through Up (⊛) & Down (⊛) Key as per requirements then Press the Menu Key to set the required value through Up (⊛) & Down (⊛) Key save the set value.
Press Back Key to Exit.

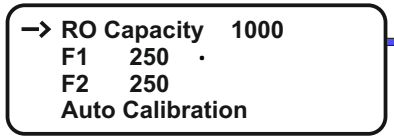
d. SET FLOW SENSOR CALIBRATION:



Press Down (⊛) Key.
Cursor select Flow Sensor Calibration edit Mode.



Press Menu Key.
Display Shows Flow Sensor Calibration Edit Mode.



Press Menu Key change the Ro Capacity required Value through the Up (⊛) & Down (⊛) key.
Press the Menu Key to save the set value. Press Down Key to select Auto Calibration Mode.

(Note: If RO Plant is 1000 LPH keep 1000 or If RO Plant is 500 LPH keep 500 hour's)