

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:

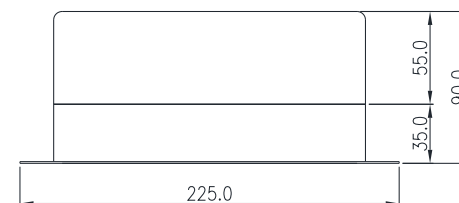
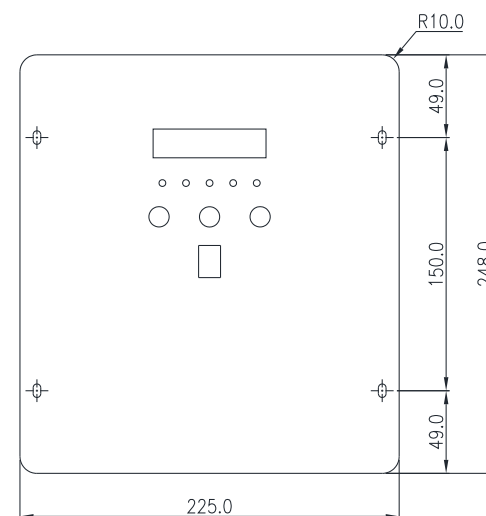
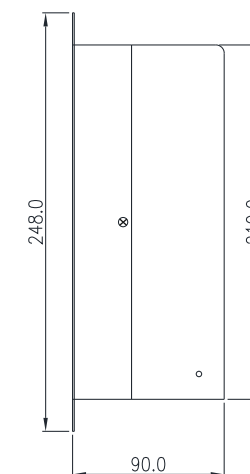
AP 1:1 TDS, VOLTAGE & CURRENT SENSING

Table of Contents:

	Page Number
1.0 Installation & Safety Instructions.	03
2.0 Flow Diagrams.	04
3.0 Connection Diagram.	05
4.0 RO Panel 1-3 Electrical Connection Diagram	06
5.0 RO Panel 3-3 : Electrical Connection Diagram	06
6.0 RO Panel 1-3 & 3-3 : Sensing Connection Diagram	06
7.0 Operating Instructions:	07
7.1 Key Functions.	07
7.2 Setting.	07
7.3 Programmable Features.	7-10
8.0 RO Control Panel Configure with 2-Multiport Valve.	11
9.0 RO Control Panel Configure with Indian Multiport Valve.	12
10.0 Trouble Shooting Guidelines.	13
11.0 Mechanical 1-1 Enclosure Dimensions.	14
12.0 Mechanical 1-3 & 3-3 Enclosure Dimensions.	15
13.0 Warranty & Customer Details.	16

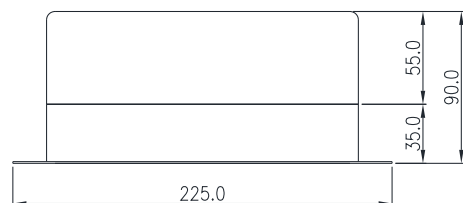
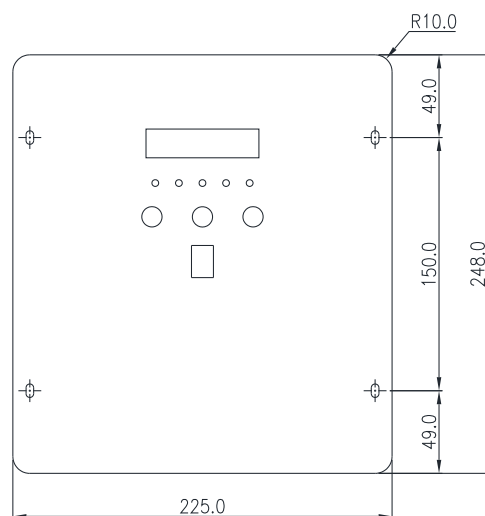
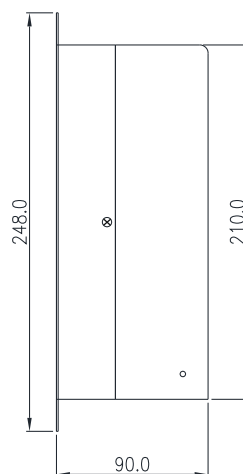
12.0 MECHANICAL 1-3 & 3-3 ENCLOSURE DIMENSIONS:

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

TOP VIEWFRONT VIEWSIDE VIEW

11.0 MECHANICAL 1-1 ENCLOSURE DIMENSIONS:

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

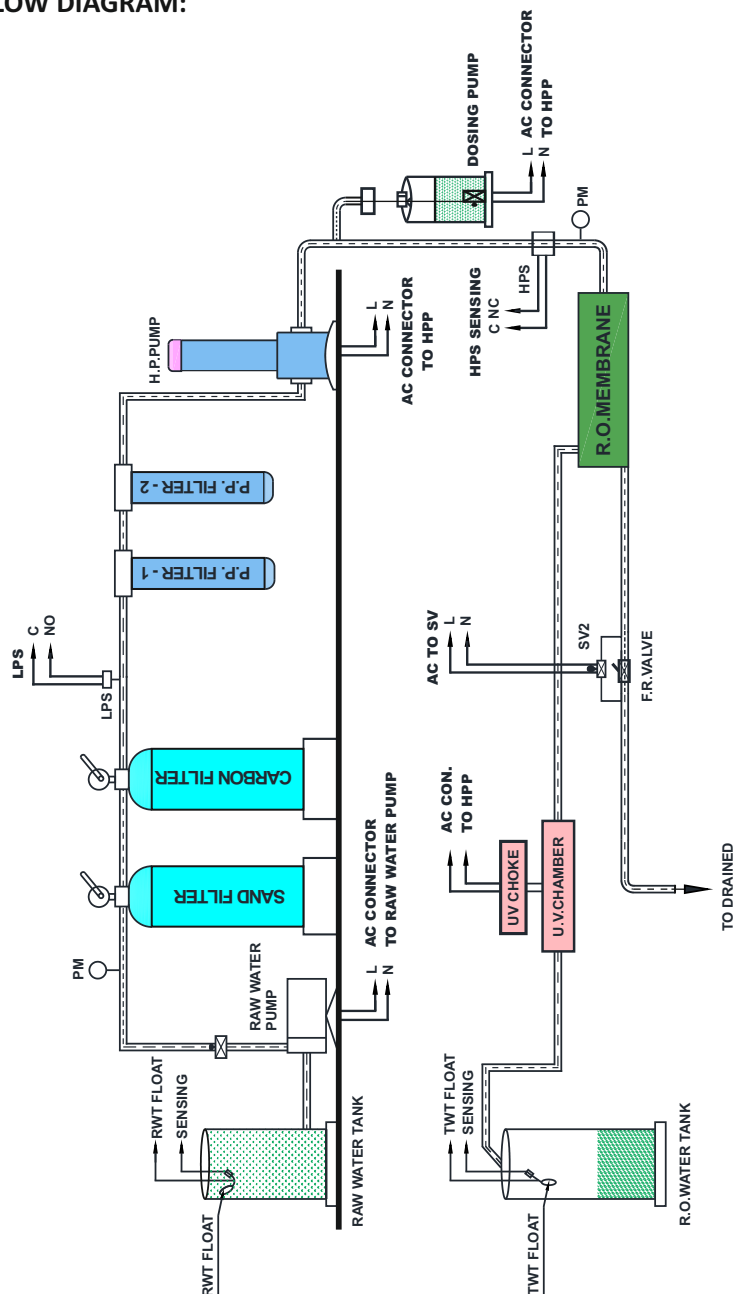
**TOP VIEW****FRONT VIEW****SIDE VIEW****1.0 INSTALLATION & SAFETY INSTRUCTIONS:**

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:

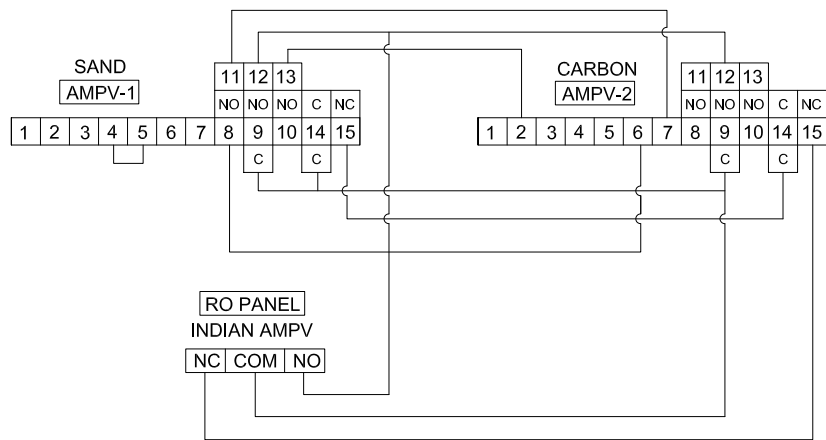


10.0 TROUBLE SHOOTING GUIDE LINES:

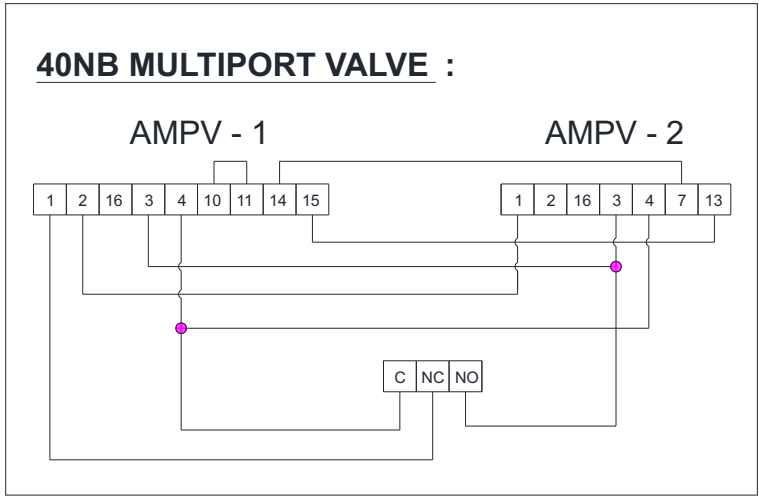
Sl.No.	Message ON Display	Cause & Action
1.	Raw Water Tank Empty	<ul style="list-style-type: none"> • Actually tank is empty. • Floaty is not connected. • Check the float & wires.
2.	LPS Failed	<ul style="list-style-type: none"> • Pressure lower then the set value. • Check the input water pressure. •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

9.0 RO CONTROL PANEL CONFIGURE WITH INDIAN MULTIPOINT VALVE:

INDIAN MULTIPOINT VALVE CONNECTION DIAGRAM

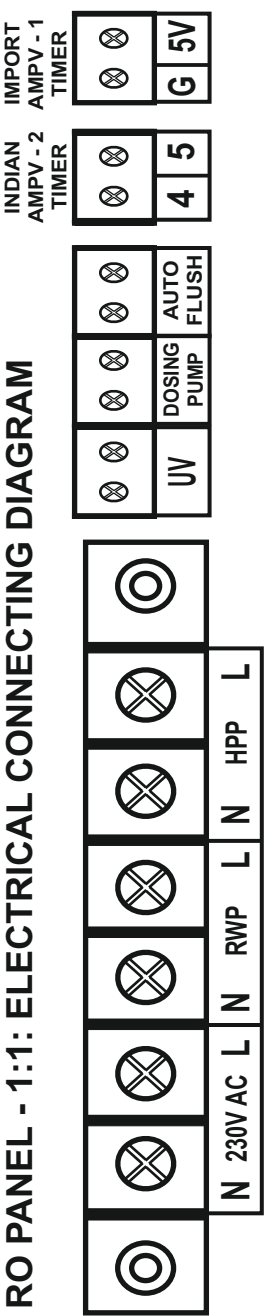


40NB MULTIPOINT VALVE :



3.0 CONNECTION DIAGRAM:

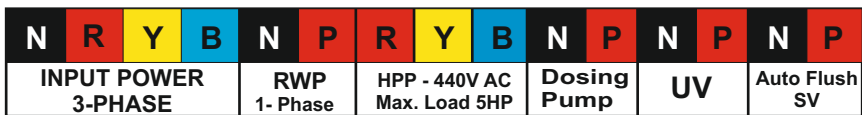
RO PANEL - 1:1: ELECTRICAL CONNECTING DIAGRAM



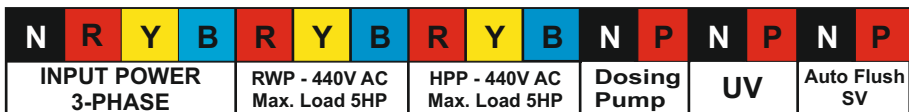
SENSING DIAGRAM PANEL: 1-1

		INDIAN		IMPORT		HPS		LPS		DOZT		TWT		RWT	
		FS1	PW	FS2	RW	AMPV - 2	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1	AMPV - 1
TDS	- S + - S +	NO	NC	C	NO	NC	C	NO	C	NO	C	NO	C	NO	C

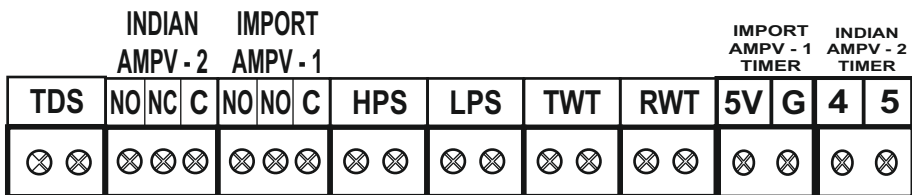
4.0 RO PANEL 1-3 : ELECTRICAL CONNECTION DIAGRAM



5.0 RO PANEL 3-3 : ELECTRICAL CONNECTION DIAGRAM

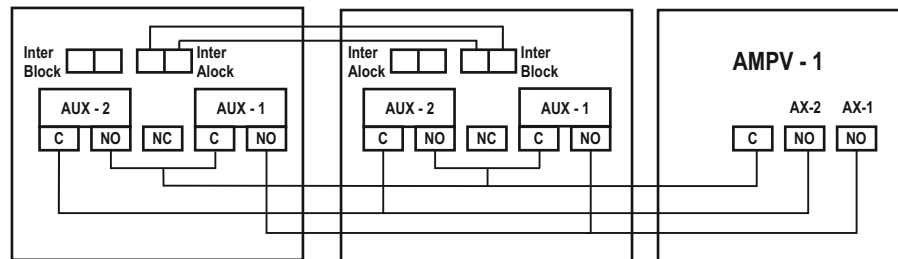


6.0 RO PANEL 1-3 & 3-3 : SENSING CONNECTION DIAGRAM

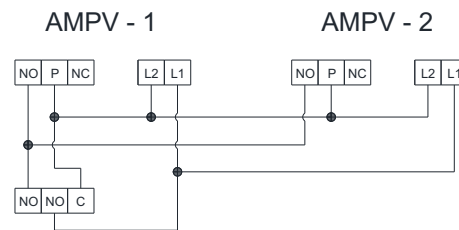


8.0 RO CONTROL PANEL CONFIGURE WITH 2-MULTIPOINT VALVE:

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

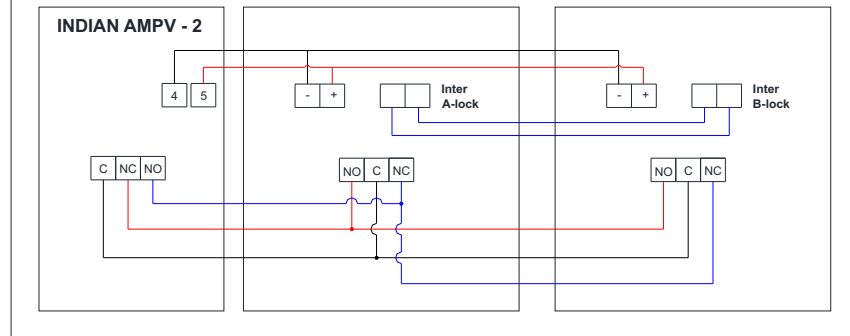


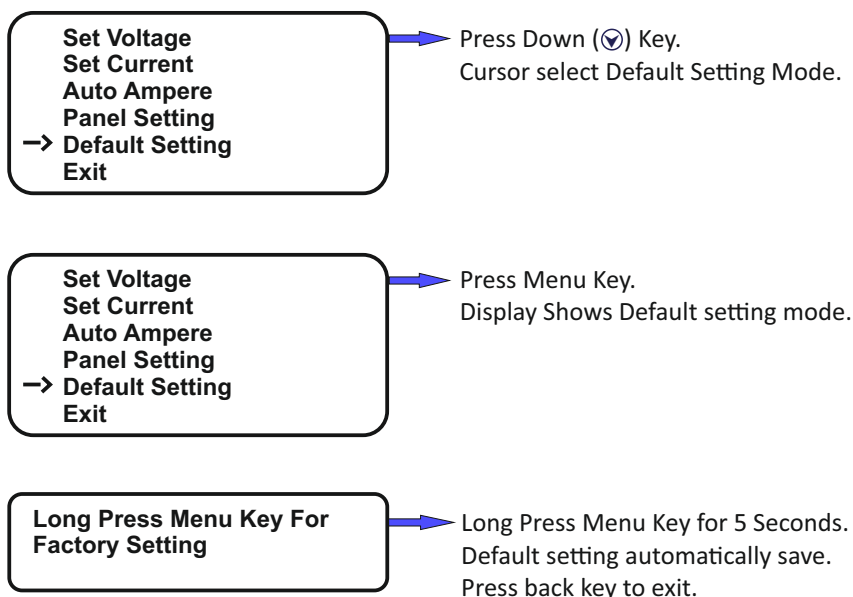
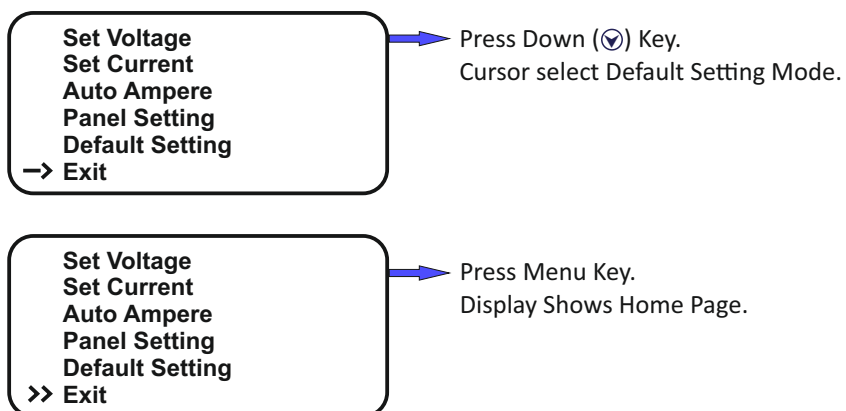
IMPORT MULTIPOINT VALVE :



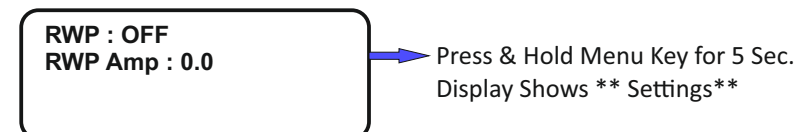
DICOM AUTO MULTIPOINT VALVE CONNECTION DIAGRAM:

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



e. SET DEFAULT SETTING: (Factory Setting will be updated Automatically)**e. EXIT :****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 .
↑ UP	Upward Movement. (Manual Mode Press UP Key RWP ON) Increment of numbers & alphabets.
↓ Down	Downward Movement. (Manual Mode Press DOWN Key HPP ON) Decrement of numbers & alphabets.

7.2 SETTINGS:**7.3 PROGRAMMABLE FEATURES:**

- Set Voltage.
- Set Current.
- Auto Amps Setting.
- Panel Setting.
- Default Setting.
- EXIT.

a. SET VOLTAGE:

→ Set Voltage
Set current
Auto Ampere
Panel Setting

Press Menu Key.
Display Shows Set Voltage.

High volt: 300
Low volt : 150
Exit

Select the Edit place through
MENU (Ⓜ) Key. Set Voltage
through Up (▲) & Down (▼) Key
as per requirements then Press
the Menu Key to save the set value.
Press Back Key to Exit.

b. SET CURRENT:

→ Set Voltage
Set current
Auto Ampere
Panel Setting

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

Set Voltage
Auto Ampere
→ Set Current
Panel Setting

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

» RWP Amp: 7.0
HPP Amp: 12.0
RWP Dry : OFF
HPP Dry : OFF
Exit

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.

c. AUTO AMPERE SETTING :

→ Set Voltage
Set current
Auto Ampere
Panel Setting

Press Down (▼) Key.
Cursor select Set Current.

Set Voltage
Set current
→ Auto Ampere
Panel Setting

Press Menu Key.
Display Shows Set Current.

RWP Amp: 0.0
HPP Amp: 0.0
Voltage : 242

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.

d. PANEL SETTING:

Set Voltage
Set current
Auto Ampere
→ Panel Setting

Press Down (▼) Key.
Cursor select Panel Setting.

→ A/F Cycle : 1 Hr.
A/F Timer : 15 S.
LPS Delay : 15 S.
LPS Retry : 30 Min.
APMV Service : OFF

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

» A/F Cycle : 1 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 A/F cycle time settings)