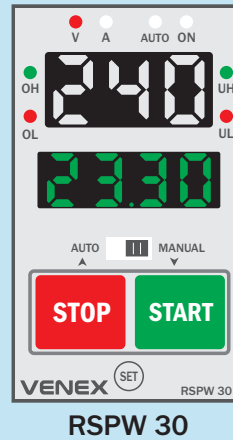


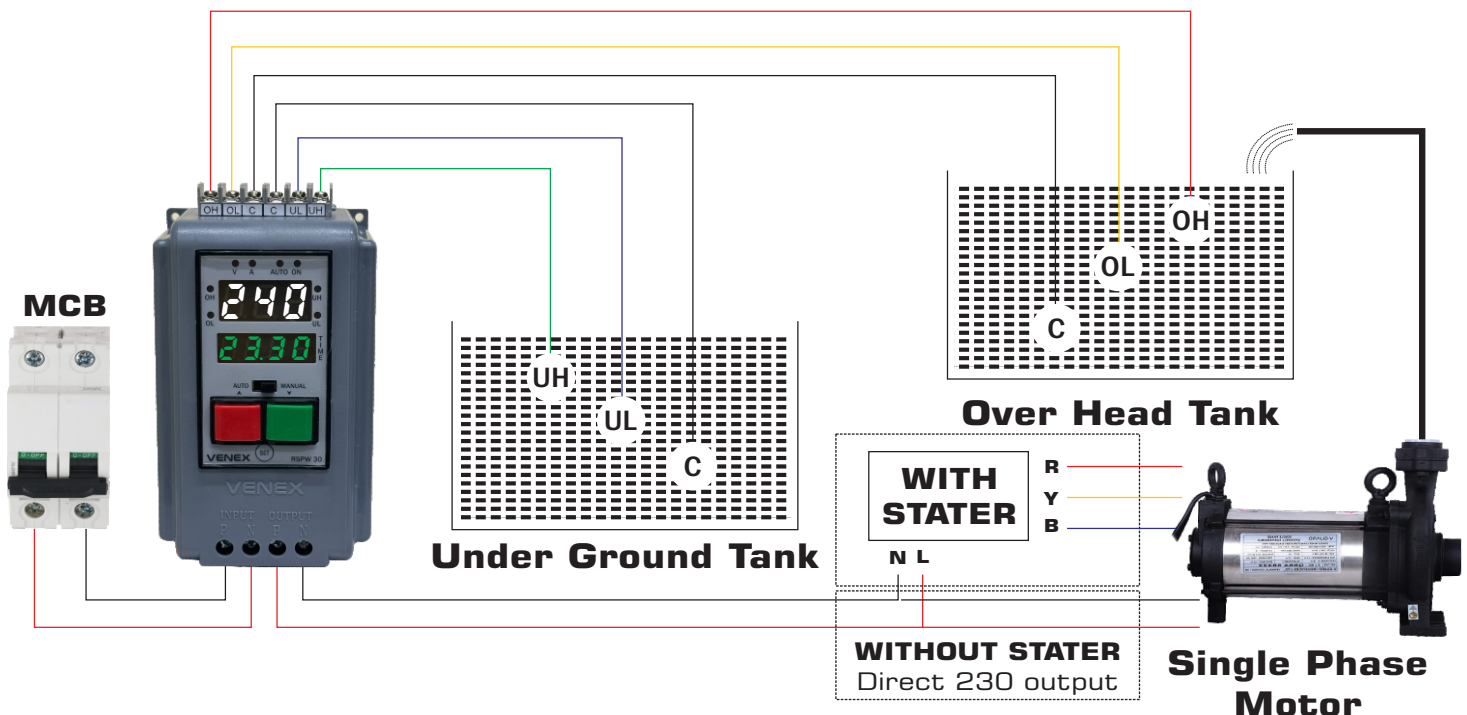
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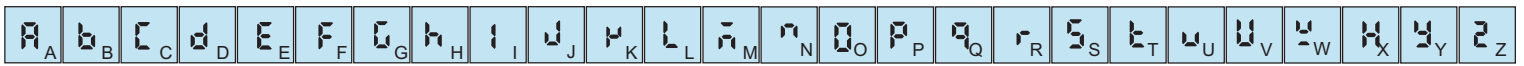
## Ordering Information:

Model No.	Descriptions	Input type	Output type	Supply
RSPW 30	Single Phase Starter With Water Level And Real Time Clock	L, N 230 VAC	L, N 230 VAC (15 AMP MAX LOAD)	L, N 230 VAC 50 Hz (± 10%)

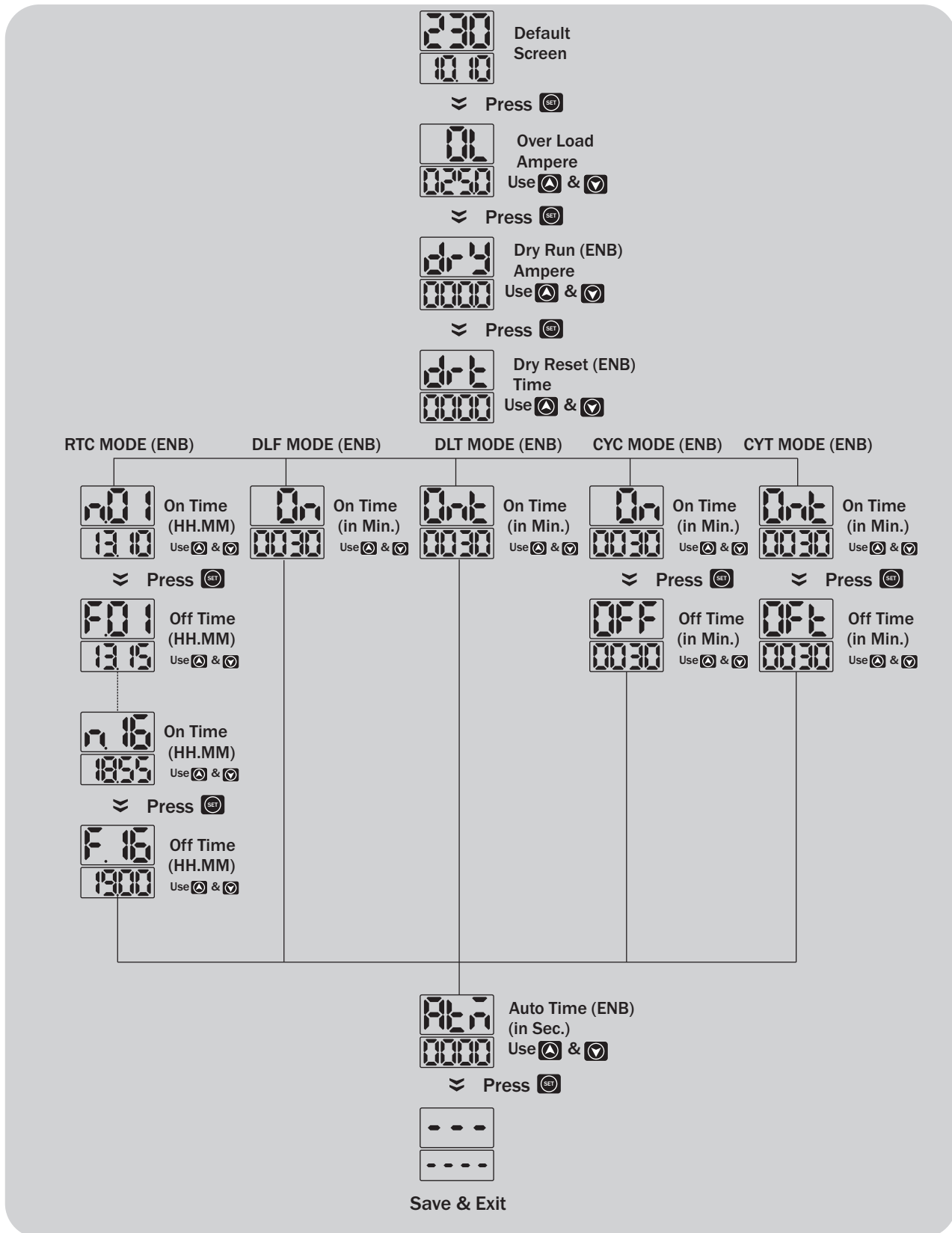
## RSPW 30 WIRING DIAGRAM



## Display Alphabet Characters















































































## STARTING MENU



## PARAMETER SETTING

PRESS  For 5 Sec.

PASS 30	PASS 50	PASS 70	PASS 80	PASS 90
Default Screen Press  For 5 Sec.	Default Screen Press  For 5 Sec.	Default Screen Press  For 5 Sec.	Default Screen Press  For 5 Sec.	Default Screen Press  For 5 Sec.
Default Password Screen Press 	Default Password Screen Press 	Default Password Screen Press 	Default Password Screen Press 	Default Password Screen Press 
Enter Password 030 For Time Parameter Use  & 	Enter Password 050 For Clock Parameter Use  & 	Enter Password 070 For Ampere Parameter Use  & 	Enter Password 080 Working Days Parameter Use  & 	Enter Password 090 For Voltage Parameter Use  & 
Auto Delay Time Enable/Disable Use  & 	Clock Time In Sec Use  & 	Max. Ampere Limit Setting Use  & 	Working Days Selection Use  & 	High Voltage Enable/Disable Use  & 
If RTC Mode Mode Selection Use  & 	Clock Time In Minutes Use  & 	Start Delay Time Setting Use  & 	Working Days Selection Use  & 	High Voltage Use  & 
Memory Retain Use  & 	Clock Time In Hours Use  & 	Ampere Delay Time Setting Use  & 	Save & Exit	Low Voltage Enable/Disable Use  & 
Auto OL & DRY In Percentage Setting Use  & 	Days Setting Use  & 	Dry Run Enable/Disable Use  & 	Low Voltage Use  & 	Low Voltage Use  & 
Save & Exit	Save & Exit	Dry Run Reset Enable/Disable Use  & 	Low Voltage Use  & 	Voltage Delay Time Setting Use  & 
		Ampere Offset Value Setting Use  & 	Low Voltage Use  & 	Voltage Delay Time Setting Use  & 
		Save & Exit	Low Voltage Use  & 	Voltage Offset Value Setting Use  & 
		Save & Exit	Low Voltage Use  & 	Save & Exit

- Password
- Function Enable
- Auto Delay Time
- Mode Selection
- Function Disable
- Yes
- Delay Time

- High Voltage
- Limit For Ampere Setting
- Start Delay Time ( Initial Delay )
- Dry Reset Time
- Ampere Offset Value
- Low Voltage
- Voltage Offset

- Real Time Clock
- None Mode
- Cyclic With Trigger Mode
- Cyclic Mode
- Delay Off With Trigger Mode
- Delay Off Mode

## Warranty and Application Considerations

### Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your venex representative if you have any questions or comments.

### Warranty and Limitations of Liability

#### WARRANTY

(12 Months, unless agreed otherwise by us) We undertake to replace or repair at our option any defective product that needs replacement or repair, by reason of defective workmanship or defective materials, brought to our notice within the period specified below as "Warranty Period" after delivery to the buyer, providing also that it we so require, the part in respect of which a complaint is made must, before liability can be entertained under this clause, be sent at buyer's expense to our works or our office, as we may determine. Under no circumstances do we undertake liability for indirect or consequential loss or damage of any nature. This guarantee is given in lieu of and excludes every other condition or warranty whether statutory or otherwise.

#### LIMITATIONS OF LIABILITY

VAPL Shall Not Be Responsible For Special, Indirect, Or Consequential Damages, Loss Of Profits, Or Commercial Loss In Any Way Connected With The Products, Whether Such Claim Is Based On Contract, Warranty, Negligence, Or Strict Liability.

In no event shall the responsibility of VAPL for any act exceed the individual price of the product on which liability is asserted

In No Event Shall VAPL Be Responsible For Warranty, Repair, Or Other Claims Regarding The Products Unless VAPL's Analysis Confirms That The Products Were Properly Handled, Stored, Installed, And Maintained And Not Subject To Contamination, Abuse, Misuse, Or Inappropriate Modification Or Repair.

### Application Considerations

#### SUITABILITY FOR USE

VAPL shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products. Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

Know and observe all prohibitions of use applicable to this product.

Never Use The Products For An Application Involving Serious Risk To Life Or Property Without Ensuring That The System As A Whole Has Been Designed To Address The Risks, And That The VAPL Products Are Properly Rated And Installed For The Intended Use Within The Overall Equipment Or System.

### DISCLAIMERS

#### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of VAPL's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the VAPL Warranty and Limitations of Liability.

#### CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your VAPL representative at any time to confirm actual specifications of purchased product.

#### DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

## SAFETY PRECAUTIONS

Do not touch the terminals while power is being supplied. Doing so may occasionally result in minor injury due to electric shock.



Do not allow pieces of metal, wire clippings, or fine metallic shavings or filings from installation to enter the product. Doing so may occasionally result in electric shock, fire, or malfunction.



Do not use the product where subject to flammable or explosive gas. Otherwise, minor injury from explosion may occasionally occur.



Never disassemble, modify, or repair the product or touch any of the internal parts. Minor electric shock, fire, or malfunction may occasionally occur



If the output relays are used past their life expectancy, contact fusing or burning may occasionally occur. Always consider the application conditions and use the output relays within their rated load and electrical life expectancy. The life expectancy of output relays varies considerably with the output load and switching conditions



Tighten the terminal screws to between 0.74 and 0.90 N·m. Loose screws may occasionally result in fire.



Set the parameters of the product so that they are suitable for the system being controlled. If they are not suitable, unexpected operation may occasionally result in property damage or accidents.



A malfunction in the Temperature Controller may occasionally make control operations impossible or prevent alarm outputs, resulting in property damage. To maintain safety in the event of malfunction of the Temperature Controller, take appropriate safety measures, such as installing a monitoring device on a separate line.



### VBTRON AUTOMATION PVT. LTD.

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Kathwada, Ahmedabad.  
(GUJARAT) INDIA

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product improvement, specifications are  
subject to change without notice.

## PRECAUTIONS FOR SAFE USE

Be sure to observe the following precautions to prevent operation failure, malfunction, or adverse effects on the performance and functions of the product. Not doing so may occasionally result in unexpected events.

- The product is designed for indoor use only. Do not use the product outdoors or in any of the following locations.
  - Places directly subject to heat radiated from heating equipment.
  - Places subject to splashing liquid or oil atmosphere.
  - Places subject to direct sunlight.
  - Places subject to dust or corrosive gas (in particular, sulfide gas and ammonia gas).
  - Places subject to intense temperature change.
  - Places subject to icing and condensation.
  - Places subject to vibration and large shocks.
- Use/store within the rated temperature and humidity ranges. Provide forced-cooling if required.
- To allow heat to escape, do not block the area around the product. Do not block the ventilation holes on the product.
- Be sure to wire properly with correct polarity of terminals.
- Use specified size (M3.5, width 7.2 mm or less) crimped terminals for wiring. To connect bare wires to the terminal block, use copper braided or solid wires with a rated temperature of over 70°C and a gauge of AWG24 to AWG14 (equal to a cross-sectional area of 0.205 to 2.081 mm<sup>2</sup>). (The stripping length is 5 to 6 mm.) Up to two wires of same size and type, or two crimped terminals can be inserted into a single terminal.
- Do not wire the terminals which are not used.
- Allow as much space as possible between the controller and devices that generate a powerful high-frequency or surge. Separate the high-voltage or large-current power lines from other lines, and avoid parallel or common wiring with the power lines when you are wiring to the terminals.
- Use this product within the rated load and power supply.
- Make sure that the rated voltage is attained within two seconds of turning ON the power using a switch or relay contact. If the voltage is applied gradually, the power may not be reset or output malfunctions may occur. into consideration when performing control.
- Make sure that the Controller has 30 minutes or more to warm up after turning ON the power before starting actual control operations to ensure the correct temperature display.
- A switch or circuit breaker should be provided close to this unit. The switch or circuit breaker should be within easy reach of the operator, and must be marked as a disconnecting means for this unit.
- Do not use paint thinner or similar chemical to clean with. Us standard grade alcohol.
- Design system (control panel, etc) considering the 2 seconds of delay that the controller's output to be set after power ON.
- The output may turn OFF when shifting to certain levels. Take this into consideration when performing control.
- The number of non-volatile memory write operations is limited

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**Application Considerations**

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- Do not use the product where subject to flammable or explosive gas. Otherwise, minor injury from explosion may occasionally occur.
- Never disassemble, modify, or repair the product or touch any of the internal parts. Minor electric shock, fire, or malfunction may occasionally occur.
- If the output relays are used past their life expectancy, contact fusing or burning may occasionally occur. Always consider the application conditions and use the output relays within their rated load and electrical life expectancy. The life expectancy of output relays varies considerably with the output load and switching conditions.
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  8. Use this product within the rated load and power supply.
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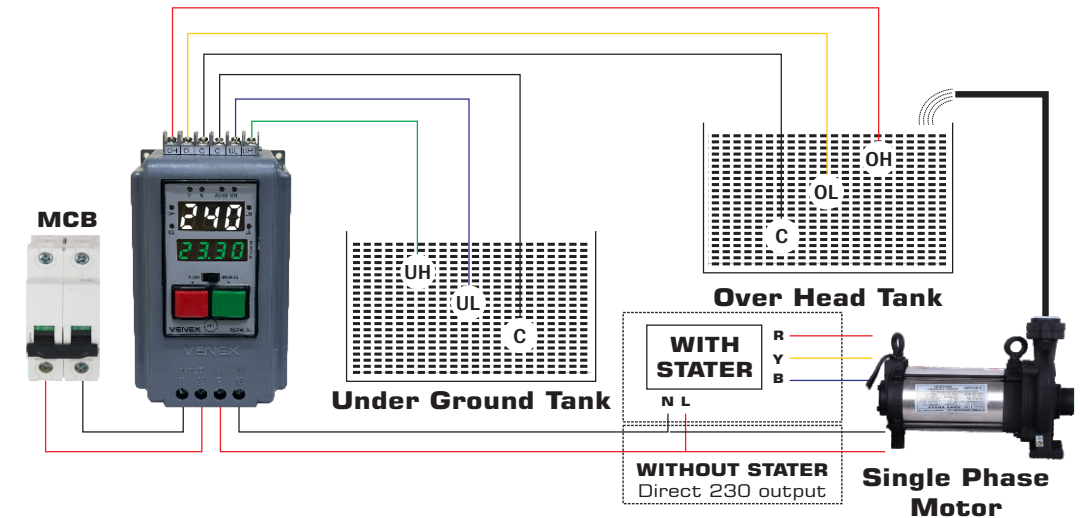
This section gives you all the information necessary to help you monitor and operate your controller including an Operator Interface overview, an explanation of the Displays, keys, LEDs, Mode access, and Operation Modes.



**Ordering Information:**

Model No.	Descriptions	Input type	Output type	Supply
RSPW 30	Single Phase Starter With Water Level And Real Time Clock	L,N 230 VAC	L,N 230 VAC (15 AMP MAX LOAD)	L,N 230 VAC 50 Hz (± 10%)

**RSPW 30 WIRING DIAGRAM**



**VBTRON AUTOMATION PVT. LTD.**

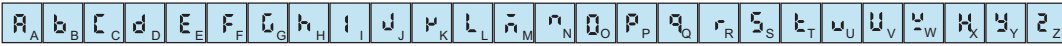
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Display Alphabet Characters



STARTING MENU

230 Default Screen  
Press [Enter]

OL Over Load Ampere  
0250 Use [Up] & [Enter]

Press [Enter]

d-r Dry Run (ENB) Ampere  
0000 Use [Up] & [Enter]

Press [Enter]

d-r-t Dry Reset (ENB) Time  
0000 Use [Up] & [Enter]

Press [Enter]

RTC MODE (ENB) DLF MODE (ENB) DLT MODE (ENB) CYC MODE (ENB) CYT MODE (ENB)

r-01 On Time (HH.MM) 13:00 Use [Up] & [Enter]

Press [Enter]

F-01 Off Time (HH.MM) 13:15 Use [Up] & [Enter]

r-16 On Time (HH.MM) 18:55 Use [Up] & [Enter]

Press [Enter]

F-16 Off Time (HH.MM) 19:00 Use [Up] & [Enter]

Auto Time (ENB) (in Sec.)  
0000 Use [Up] & [Enter]

Press [Enter]

--- Save & Exit

PARAMETER SETTING

PRESS [Enter] For 5 Sec.

PASS 30	PASS 50	PASS 70	PASS 80	PASS 90
230 Default Screen Press [Enter] For 5 Sec.	230 Default Screen Press [Enter] For 5 Sec.	230 Default Screen Press [Enter] For 5 Sec.	230 Default Screen Press [Enter] For 5 Sec.	230 Default Screen Press [Enter] For 5 Sec.
PAS Default Password Screen 0043 Press [Enter]	PAS Default Password Screen 0043 Press [Enter]	PAS Default Password Screen 0043 Press [Enter]	PAS Default Password Screen 0043 Press [Enter]	PAS Default Password Screen 0043 Press [Enter]
PAS Enter Password 030 For Time Parameter 0030 Use [Up] & [Enter]	PAS Enter Password 050 For Clock Parameter 0050 Use [Up] & [Enter]	PAS Enter Password 070 For Ampere Parameter 0070 Use [Up] & [Enter]	PAS Enter Password 080 Working Days Parameter 0080 Use [Up] & [Enter]	PAS Enter Password 090 For Voltage Parameter 0090 Use [Up] & [Enter]
ALen Auto Delay Time Enable/Disable d-15 Use [Up] & [Enter]	560 Clock Time In Sec 0020 Use [Up] & [Enter]	Lat Max. Ampere Limit Setting 0250 Use [Up] & [Enter]	5un Working Days Selection 495 Use [Up] & [Enter]	HU High Voltage Enable/Disable Enb Use [Up] & [Enter]
If RTC Mode r-0d Mode Selection r-0e Use [Up] & [Enter]	n-1n Clock Time In Minutes 0020 Use [Up] & [Enter]	5ed Start Delay Time Setting 0010 Use [Up] & [Enter]	58e Working Days Selection 495 Use [Up] & [Enter]	HU High Voltage Enable/Disable 0290 Use [Up] & [Enter]
CHn Memory Retain r-0 Use [Up] & [Enter]	H- Clock Time In Hours 0020 Use [Up] & [Enter]	d-4 Ampere Delay Time Setting 0005 Use [Up] & [Enter]	Save & Exit	LU Low Voltage Enable/Disable Enb Use [Up] & [Enter]
--- Save & Exit	d-9 Days Setting 5un Use [Up] & [Enter]	d-r Dry Run Enable/Disable Enb Use [Up] & [Enter]	Save & Exit	LU Low Voltage Enable/Disable 0160 Use [Up] & [Enter]
Save & Exit	Save & Exit	d-r-t Dry Run Reset Enable/Disable d-15 Use [Up] & [Enter]	Save & Exit	d-4 Voltage Delay Time Setting 0005 Use [Up] & [Enter]
Save & Exit	Save & Exit	P-0F Ampere Offset Value Setting 0000 Use [Up] & [Enter]	Save & Exit	0-0F Voltage Offset Value Setting 0000 Use [Up] & [Enter]
Save & Exit	Save & Exit	--- Save & Exit	Save & Exit	--- Save & Exit

PAS Password	HU High Voltage	r-t Real Time Clock
Enb Function Enable	Lat Limit For Ampere Setting	r-0e None Mode
ALen Auto Delay Time	5ed Start Delay Time ( Initial Delay )	c-0e Cyclic With Trigger Mode
r-0d Mode Selection	d-r-t Dry Reset Time	c-0l Cyclic Mode
d-15 Function Disable	P-0F Ampere Offset Value	d-l-e Delay Off With Trigger Mode
495 Yes	LU Low Voltage	d-l-o Delay Off Mode
d-4 Delay Time	0-0F Voltage Offset	