

# MONOPHASE MICROPROCESSOR RECTIFIER USER MANUAL

Before commissioning the device to read the manual.

## FIRST DEVICE SETUP

- The floor should be flat on the ground will put your device.
- Humidity and moisture in the environment the machine in operation.
- The appliance must be clarity so that air circulation around.
- The unit should not be exposed directly any heat source.
- Proper Power Cord to a grounded outlet (AC 220 V 50 Hz) Plug.
- To the output terminals on the front of the rectifier output connections.
- Red Color Terminal + positions (+, positive, anode), Black Color Terminal Constitutes - Pole (-, negative, cathode) stop.
- Plating Bath with Rectifier Rectifier Output Current Choosing Between Cable or Copper Thickness should be commensurate with the bar. Not selecting the appropriate thicknesses of you or your cable or copper bar, copper cable becomes warm to the bar.
- Make sure no loose connections between the rectifier and Plating Bath.

## RECTIFIER DO WORK SETTINGS

- Programming a Rectifier Information To Shape Before Starting Work. Available in 2 different Operation. They Volt Current Controlled Study and controlled study. Covering these operating modes vary according to your process.



- Value of Controlled Study = Of the study design is fixed and determined by the user. This study, based on the value Volt Rectifier Works entered on the screen. Die Hard Volt value current value of the product depends on the amount the coating. For example, one volt 4.7V've written and Coating Products put his bath. Persecution of the product Amps 10A 20A current value If it happens when you put 2 products.
- Current Controlled Study = current value is fixed and determined by your way of working. According to this study, the current value entered on the screen Rectifier Works. Value of Fixed Pattern Volt current value of the product depends on the amount the coating. For example, the current value of the product 50A've written and put plating

bath 1 Piece Product Persecution value Volt Volt 10V 5V If it happens when you put 2 products.

- Identify Life rectifiers bath or Chemical Addition Ampere Meter To Make Or you can use to determine the state Department of anodes are available. The sensitivity of this amp by the counter unit Ampere's work, Amper Amper minutes or seconds can be used.

Screen Images of these Rectifier follows. These perturbations in the display units (Sliders) Unit Ampersayac the pointer on the P key at the same time + and - buttons to change the unit of the Department of Ampersayac.

- AS = Ampere hour
- Ad = Ampere minute
- As = Ampere second



Say for example, you can express the Use Ampere meter. Fixed a plating bath used as a rectifier 50A bathroom are sold. Given the value of this counter Balls and Active Ampere Ampere Meter Section 50A Writer.

If the second option is selected, one ampere per second values are written to 50. Up to 50 Amps minutes if the option is selected, the value is written to 1. If you are a 1-hour 50 Ampere values are written to the selected value. You looking for value of your bathroom This Life, Chemical Variations can follow amendments or anode.

If it is available the necessary equipment you connect rectifier Pumps Chemical Dosing Pump, or by the meter can automate Amp Set amendments have entered. STOP Active at the Same Time To Reset the Department of rectifier amp meter, DOWN ARROW, and - Ampere Meter Active Part reset when you hold down the keys'll see.

All of his work since the first Ampere Meter Rectifier the Same Time Information Unit's memory is kept Amps x hours. If it is to get this information at the same time the DOWN ARROW and UP ARROW enough to press. And this value can not be changed.

- Each rectifier current 9 In other words, Prescription Program Available in Different Settings can be entered. Prescriptions will explain this in the future MOD (preferred) by a work. Each recipe Volts and current and three different values Separately allowed to enter a different time.
- 3 Different Time Value Available Rectifiers. Time Values Hours: Minutes: Seconds shape. For example, it is written 1:10:06 Meaning One hour and ten minutes and six seconds. Three different time values are as follows.



- T1 time: This time, or Electroless soaking time. Current and Volt Rectifier Time Out, Does not It. Population chemicals in the bath ensures that the product is a good way that may occur at the Same Time In Chemical Product bubbles Disappearance of the time used for the bathroom is placed. This time you do not want to use the value of the time value, simply type 12:00:00.
  - It is time T2 Time = Rise or ramp. This time you have requested that you have entered the Value of Time to reach the current or volt. Value of Controlled 10V Volt Volt You Write For example, at work, and that is, 10 seconds 00:00:10 If it entered T2 time every 1 second 1 Voltage Rectifier 10V finally reached a Ascendant 10 seconds. If you do not want to use the value of this time, simply type T2 time 0:00:00.
  - T3 Time = working time. How long do you have requested rectifier will work with saddle Determines Volt or current.
- Once their time and work study programs MOD 'or in other words that the Working Preference should be determined. Microprocessor controlled rectifiers seven different operating modes. These are as follows;
  - MODE 1 = This is the preferred times the soaking and Promotion is not available. There Are Only A Runtime. The program only works on programs that you have selected. Programs do not work follow each other. MOD 2 = This is the preferred times the soaking and Promotion is not available. Trying to follow the programs of one another. Full 9 Piece If you use the program. 00:00:00 Time values must type the programs you do not use.
  - MOD 3 = This is the preferred times the soaking and Promotion available. The program only works on programs selected. Programs do not work follow each other.
  - MOD 4 = This is the preferred times the soaking and Promotion available. Trying to follow the programs of one another. Full 9 Piece If you use the program. 00:00:00 Time values must type the programs you do not use.
  - If it is the MOD 5 = This is the preferred Rectifier from a PC or a PLC or automation system allows to switch On.
  - If it is the MOD 6 = This is the preferred Rectifier with One-Button Remote External Front closure, and with the help of a Pot of current or volt Values Remote allows you to change the rectifier.
  - If it is the MOD 7 = This is the preferred Amp Rectifier Set Counter Display Unit, Department of values you specify that you entered and the display stops and the warning letter, Rectifiers Rectifier alerts you when they arrive. In this case, reset the Department of Active Rectifier amp meter work.

## PROGRAMMING



Screenshot

- Before Starting Work Values Rectifier Programming information;
- When turned off, or the programs are retained during power outages indelible memory of the system. Therefore, the different values of the system turned on and not run the programs a new programming need.
- Flashing Rectifier Screen Display (cursor) is available. This is the display screen on the left and right arrow keys on top of the value you want to change using the returns and the plus (+) and Minus (-) buttons to change the value.
- Available Rectifier Control Screen 4 Row. Fourth row of the display to bring any of this up and down, use the arrow keys for left and right using the arrow keys and Gene indicator (cursor) to change the value that you want the pointer on the plus (+) and Minus (-) buttons to change the value.
- Push Button Start Rectifier run after making necessary changes. Rectifier is operating, find the Green Start Button LED on the top left corner. That shows that this is your rectifier.
- Rectifier stop or programmed by pressing Stop Button Stop Working When finished, the red LED on the bottom left. This' indicates that your rectifier.