

# ***norweco***® SERVICE PRO®

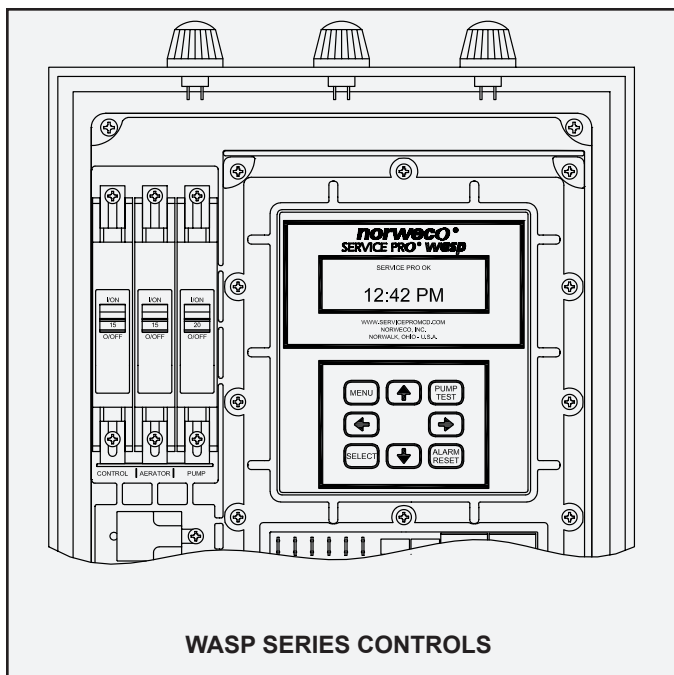
## WASP SERIES INTEGRATED SYSTEM CONTROLS

### START-UP AND OPERATION INSTRUCTIONS

The information contained in these instructions is not intended to be a complete electrical installation reference, as code requirements vary according to geographic area. These instructions focus only on the specific requirements for the Service Pro WASP controls. They do not cover all installation aspects of the underground electrical cable and control center, preliminary inspection, testing and service of the control center or troubleshooting. More instructions are contained in the Bio-Kinetic Wastewater Treatment System Electrical Wiring and Control Center Installation yellow sheet. All electrical work must be performed in accordance with the latest edition of the National Electrical Code and all applicable local codes.

#### PROGRAMMING THE PANEL

1. After wiring has been completed, the Service Pro WASP control center must be programmed to operate the Singulair system. Make sure the breakers in the home and in the panel are both in the "on" position and the display in the control center reads "SERVICE PRO OK" on the top line.
2. Press the "MENU" button on the touchpad to access the programming menu of the control center. "SET CLOCK" and "SET HOURS" will be displayed on the screen. Press the up or down arrow button on the touchpad to set the correct hours value.
3. Once the correct hours value is displayed, press the right arrow button to set the minutes value. The display will read "SET MINUTES". Press the up or down arrow button to set the correct minutes value.
4. Once the correct minutes value is displayed, press the right arrow button to set the seconds value. The display will read "SET SECONDS". Press the up or down arrow button to set the correct seconds value.
5. Once the correct seconds value is displayed, press the right arrow button on the touchpad to set the aerator run time. The display will read "AERATOR RUN TIME". Press the up or down arrow button to change the aerator run time in one minute increments. This value can be set from 30 minutes up to continuous operation.
6. Once the aerator run time has been set, press the right arrow button on the touchpad to set the pump timer mode. The display will read "PUMP TIMER MODE". Press the up or down arrow button to change the timer mode. Available options include NO TIMER mode, TIME OF DAY mode and CYCLE TIMER mode. NO TIMER mode operates the pump on a demand use basis controlled by the float switches. TIME OF DAY mode enables the pump to operate at a set time range during the day and works in conjunction with the float switches. CYCLE TIMER mode enables pump operation on a repeat cycle and works in conjunction with the float switches. For TIME OF DAY mode, proceed to step 7 below. For CYCLE TIMER mode, proceed to step 8 below.
7. If the TIME OF DAY mode has been selected, press the right arrow button on the touchpad to set the pump on time. This is the time of day that the pump will begin operating.
  - a. "PUMP ON TIME" and "SET HOURS" will be displayed on the screen. Press the up or down arrow button to set the desired hours value.
  - b. Once the correct hours value has been set, press the right arrow button to set the minutes value. The display will read "SET MINUTES". Press the up or down arrow button to set the desired minutes value.
  - c. Once the correct minutes value has been set, press the right arrow button to set the pump off time. This is the time of day that the pump will be disabled. "PUMP OFF TIME" and "SET HOURS" will be displayed on the screen. Press the up or down arrow button to set the desired hours value.
  - d. Once the correct hours value has been set, press the right arrow button to set the minutes value. The display will read "SET MINUTES". Press the up or down arrow button to set the desired minutes value.
  - e. Proceed to step 9 below.



# SERVICE PRO® WASP START-UP AND OPERATION (Cont.)

8. If the CYCLE TIMER mode has been selected, press the right arrow button on the touchpad to set the pump on time. This is the length of time that the pump will operate each cycle.
  - a. "PUMP CYCLE ON TIME" and "SET HOURS" will be displayed on the screen. Press the up or down arrow button to set the desired hours value.
  - b. Once the correct hours value has been set, press the right arrow button to set the minutes value. The display will read "SET MINUTES". Press the up or down arrow button to set the desired minutes value.
  - c. Once the correct minutes value has been set, press the right arrow button to set the seconds value. The display will read "SET SECONDS". Press the up or down arrow button to set the desired seconds value.
  - d. Once the correct seconds value has been set, press the right arrow button to set the pump off time. "PUMP CYCLE OFF TIME" and "SET HOURS" will be displayed on the screen. Press the up or down arrow button to set the desired hours value.
  - e. Once the correct hours value has been set, press the right arrow button to set the minutes value. The display will read "SET MINUTES". Press the up or down arrow button to set the desired minutes value.
  - f. Once the correct minutes value has been set, press the right arrow button to set the seconds value. The display will read "SET SECONDS". Press the up or down arrow button to set the desired seconds value.
9. Press the right arrow button on the touchpad to enter the auxiliary input alarms configuration screen. The display will read "AUXILIARY ALARMS" and the AUX1 value should be selected. Press the up or down arrow button to change the auxiliary 1 input from N-OP (normally open) to N-CL (normally closed) if required. If auxiliary input 1 will not be used, leave AUX1 set to N-OP.
10. Once auxiliary input 1 has been configured, press the right arrow button on the touchpad to configure auxiliary input 2. The AUX2 value should be selected. Press the up or down arrow button to change the auxiliary 2 input from N-OP (normally open) to N-CL (normally closed) if required. If auxiliary input 2 will not be used, leave AUX2 set to N-OP.
11. Once auxiliary input 2 has been configured, press the right arrow button on the touchpad to configure auxiliary input 3. The AUX3 value should be selected. Press the up or down arrow button to change the auxiliary 3 input from N-OP (normally open) to N-CL (normally closed) if required. If auxiliary input 3 will not be used, leave AUX3 set to N-OP.
12. Press the right arrow button on the touchpad to exit the programming menu. The display should read "SERVICE PRO OK" on the top line. The Service Pro WASP control center programming is complete and the system is now ready for operation.

## VIEW SYSTEM STATUS AND CONFIGURATION

The Service Pro WASP control center records parameters regarding the Singlair system that can be reviewed at any time. Adjustments to the programming can be made as required. To review recorded data and system parameters:

1. Press the "SELECT" button on the touchpad. The screen should display the elapsed pump run time.
2. Press the right arrow button to review the pump cycle count.
3. Press the right arrow button to review the aerator elapsed run time.
4. Press the right arrow button to review the aerator cycle count.
5. Press the right arrow button to review the auxiliary input configurations.
6. Press the right arrow button to review failsafe mode status, software version and panel serial number.
7. Press the right arrow button to exit the system parameters menu.

## PUMP TEST

The Service Pro WASP control center has a built-in pump test feature. To start a pump test, hold the "PUMP TEST" button for five seconds. The screen will display "PUMP TEST" and the pump will turn on. The pump will operate for five minutes and then will turn off.

## ALARM TEST

The Service Pro WASP control center has a built-in alarm test feature. To start an alarm test, hold the "ALARM RESET" button for five seconds. The screen will display "ALARM TEST" and the audible and visual alarms will turn on for five seconds. After five seconds, the alarms will turn off.

## ALARM CONDITIONS

If the Service Pro WASP control center detects an abnormal condition, the display will indicate the specific problem the system is experiencing. For example, if the aerator is drawing high amps, the display will read "AERATOR HIGH CURRENT." To silence the alarms and attempt to clear the alarm condition, press the "ALARM RESET" button. If the issue has been corrected, the system will turn off the alarms and resume normal operation. If a problem still exists, the audible alarm will be silenced for 48 hours, but the visual alarm will continue to light. In addition, detailed information regarding the specific problem will be displayed on the screen.

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