Supplementary User Manual

Advanced Menu Settings

For SG/SWC/XLS Series
Saltwater & Mineral Chlorinators

Contents

This supplementary User Manual is designed to be read in conjunction with the User Manual supplied with your Pool Controls product.

Replacement User Manuals can be downloaded from our website – poolcontrols.com.au

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IMPORTANT

If the power cord is damaged the unit must be returned to Pool Controls for repair.

Always read the instructions and warnings on chemical containers before using chemicals.

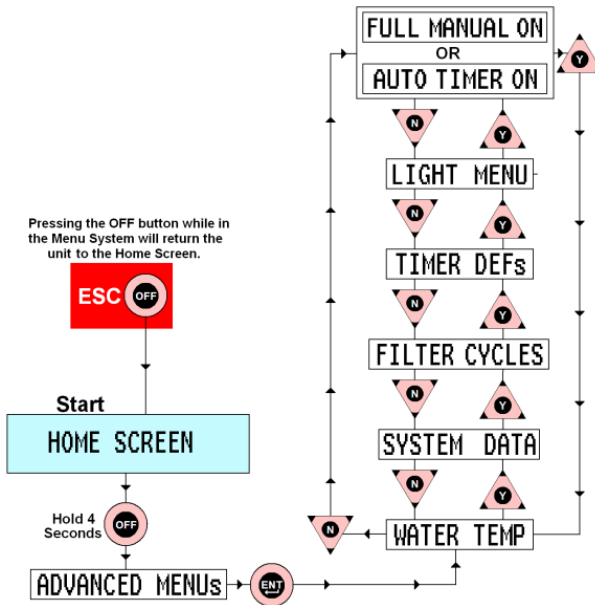*Never add salt/minerals before testing levels*

Advanced Menu Settings

To access the Advance Setting Menu from the Home Screen, press and hold the OFF button for 4 seconds. The LCD will display "ADVANCED MENUS" – press ENT to select.

Advanced Settings comprise:
- FULL MANUAL ON or AUTO TIMER ON – use when the SG/SWC/XLS Series® is being run as a "slave" to another controller.
- LIGHT controls automatic light operation
- TIMER DEFAULTS allows advanced programming of the timer for 4 FILTER CYCLES and is very useful for seasonal timer adjustments
- FILTER CYCLES - allows for up to 4 Filter Cycles to be activated and is very useful for seasonal timer adjustments.
- SYSTEM DATA - shows service information
- WATER TEMP - allows you to compensate for cold water
- ADD ACID – allows you to adjust pH control settings.
- AUX – allows programming of auxiliary timed power outlet

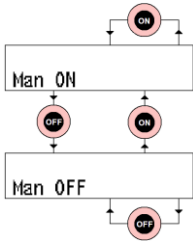The Advanced Settings Menus are illustrated schematically below:

Once you have selected the Advanced Settings Menu, use the Y/UP and N/DOWN buttons to scroll through the various options. When the name of the sub-menu you require is displayed on the LCD, press ENT to access that sub-menu.

If you wish to return to the Home Screen at any time, press the ESC/OFF button once.

Full Manual Mode or Auto Timer Mode

Full Manual Mode (FMM)

FMM is used in situations where an external timer is required to run the chlorinator. FMM is a setting which starts the pump immediately on the application of power to the unit. FMM mode can have the pump turned OFF. This will mean that the pump will not turn back ON unless it is manually turned ON by the ON pad or a power failure occurs. See the diagram - only Line2 of the LCD is shown.

AutoMode
The Timer is very versatile and easy to use. It has 4 adjustable Filter Cycles that can be accessed from the TIMER MENU. All Filter Cycles can be overridden manually. Filter Cycle 1 is always enabled. The other 3 Filter Cycles can be enabled or disabled in order (ie select 1, 2, 3 or 4 Filter Cycles to be enabled). This allows a simple increase or decrease in running times to be achieved without adjusting the Filter Cycle ON/OFF times – simply add or remove cycles.
In AutoMode the system will START (at first power-up or after a long power failure) with the pump OFF. It will then wait for the next available ON-time to start the pump and the rest of the system. If there is a power failure the system will continue to keep time for a number of days. During this time the pump ON/OFF-times will still be checked. When power is restored the system will wake up and turn the pump ON if it is during a Filter Cycle.
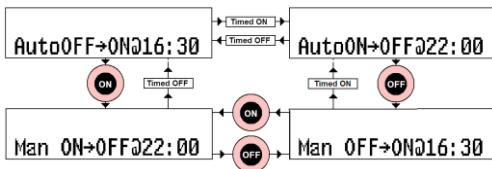
Automatic Operation:

During Automatic Operation Line2 of the LCD will display whether the Pump is ON or OFF and the next OFF or ON time. The displays are read as: "Auto OFF next ON at 4:30pm"
OR   "Auto ON next OFF at 10pm"

Manual Operation While In AutoMode:

The pump can be turned ON/OFF Manually when it is in AutoOFF/ON. Simply press ON/OFF once to start / stop the pump. The unit is still in AutoMode and will respond to the next AutoOFF/ON – it will not remain ON/OFF indefinitely unless required

Light Menu

The LIGHT OUTLET MENU is used to select and adjust the automatic light control. The light power supply can be turned ON/OFF like a Filter Cycle, as well as being manually controlled. If the light automation is selected the light power supply will be controlled by the ON and OFF times. If the light is turned ON manually it will still be turned off at the OFF time. If the light automation is not selected the light can only be controlled manually.
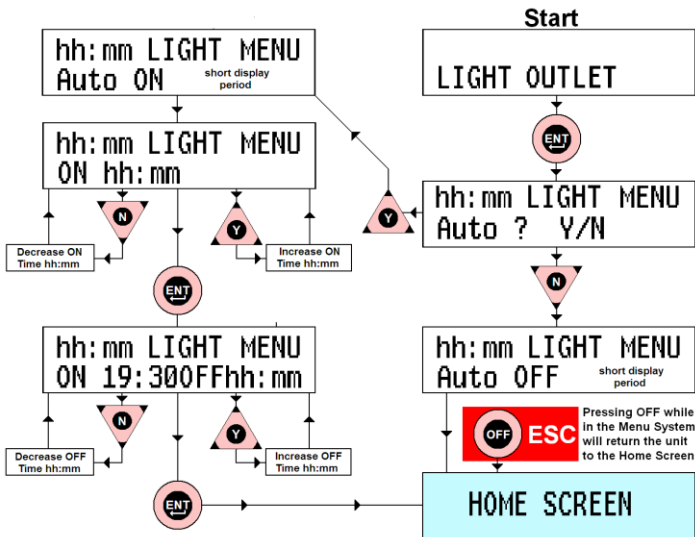
Manual Light Operation
During normal operation the light can be turned ON/OFF manually by pressing the UP-pad. Note that for LED Lights requiring a power pulse to change effects, you can hold down the UP-pad to cycle the light ON/OFF

Accessing the LIGHT OUTLET MENU:
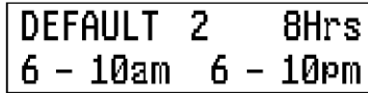The LIGHT OUTLET MENU can be present in two Menus: the ADVANCED MENUs and the TIMER MENU.
Enter either of these Menus in the usual way and use UP/DOWN to navigate to the LIGHT OUTLET. Once the LCD Line1 reads "hh:mm LIGHT MENU" – press ENT-pad to enter. Line2 will now read "AUTO ? Y/N". To disable automatic light operation press the DOWN-pad. Line2 will read "Auto OFF" for short period then the system will return to normal operation and the light will only respond to Manual ON/OFF.
To enable automatic light operation press the UP-pad. Line2 will read "Auto ON" for short period before displaying "ON hh:mm". The ON-time is adjusted using the UP/DOWN-pads. A ENT-pad press will lock in the new ON-time and the LCD will read "ON 19:30OFFhh:mm". The OFF-time is adjusted by using the UP/DOWN-pads. A ENT-pad press will lock in the new OFF-time and the system will revert to normal operation.

Timer Defaults Menu

The initial Timer Setting is 2 Filter Cycles for a total of 8 hours per day operation – FC1 = 7am to 11am & FC2 = 6pm to 10pm). Up to 4 FCs can be used to make seasonal adjustment easy. There are also default settings available in the TIMER DEFs Menu. For example TD1: this runs from 6-8am and 5-11pm using FC1 thru FC4. There are a number of other TDs selectable using the UP/DOWN-pads from a display that looks like this:

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DEFAULT 2    8Hrs
6 - 10am  6 - 10pm
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Simply press the ENT-pad to select the DEFAULT that you require, and the unit will configure these times using FC1 thru FC4. These times can be adjusted if desired, see the User Manual supplied with your product for more details. Check your SG/SWC/XLS Series for available TD times or simply make up your own.
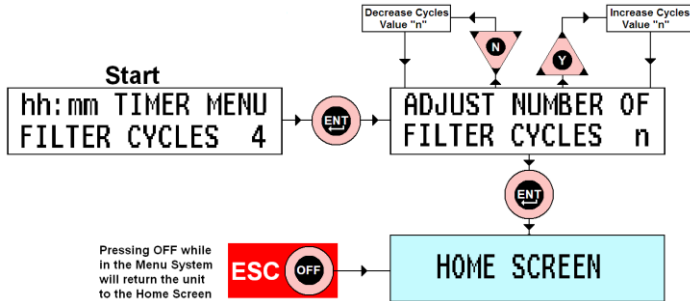
Available Timer Defaults:

Def No.	Total Time	Run Times		Def No.	Total Time	Run Times	
1	8 hrs	6-8am	5-11pm (factory)	6	10hrs	6-11am	6-11pm
2	8 hrs	6-10am	6-10pm	7	8 hrs	8-12noon	2-6pm
3	10hrs	6-9am	5-12midnight	8	8 hrs	8-12noon	3-7pm
4	8 hrs	9am -	5pm (solar)	9	8 hrs	10pm - 6am (offpeak)	
5	6 hrs	6-8am	5-9pm	times may change – see unit for choices			

Filter Cycles

Using the ENT(ER)-pad and the UP/DOWN-pads go the FILTER CYCLES Sub-MENU (Line2 of LCD) and press ENT-pad.

It will have an associated number – this is the number of enabled Filter Cycles (FCs). Using the UP/DOWN-pads this number can be easily changed. To make the change take effect the ENT-pad must be pressed – normal operation is then resumed.
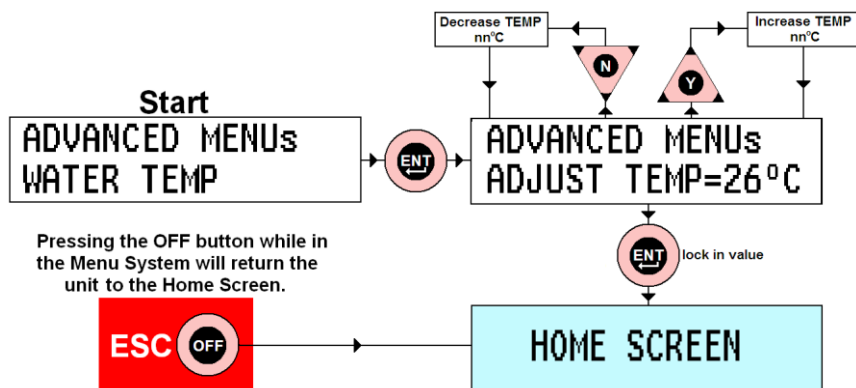
System Data
Water Temperature

The WATER TEMP is used to adjust a temperature compensation value that helps to maintain the accuracy of the STATUS warnings when the water temperature gets lower over the colder months.

Setting the Water Temperature

The display will now read "ADJUST TEMP=26°C". The UP/DOWN-pads will allow adjustment from 12°C to 26°C in 2°C steps. This value is used to provide system compensation for colder water – when water temperature reduces (eg in winter) the conductivity will decrease. Without compensation the unit will warn of Low Conductivity before it should.

Add Acid Menu (for pH models)

The +ACID MENU is used to select and adjust the Acid Dosing System (ADS). The ADS is a timed acid dosing system using either a vacuum valve or peristaltic pump. As chlorine is produced the pool pH will go up slowly. This can be offset by small doses of acid added to the pool.
An algorithm estimates the amount of acid that is needed per dose. *It is vital that the pool pH is checked regularly – THIS SYSTEM MUST BE ADJUSTED TO SUIT YOUR POOL. See the section on pH & Total Alkalinity and POOL BALANCE in the User Manual supplied with your product.* Once the ADS is adjusted maintenance should be minimal.
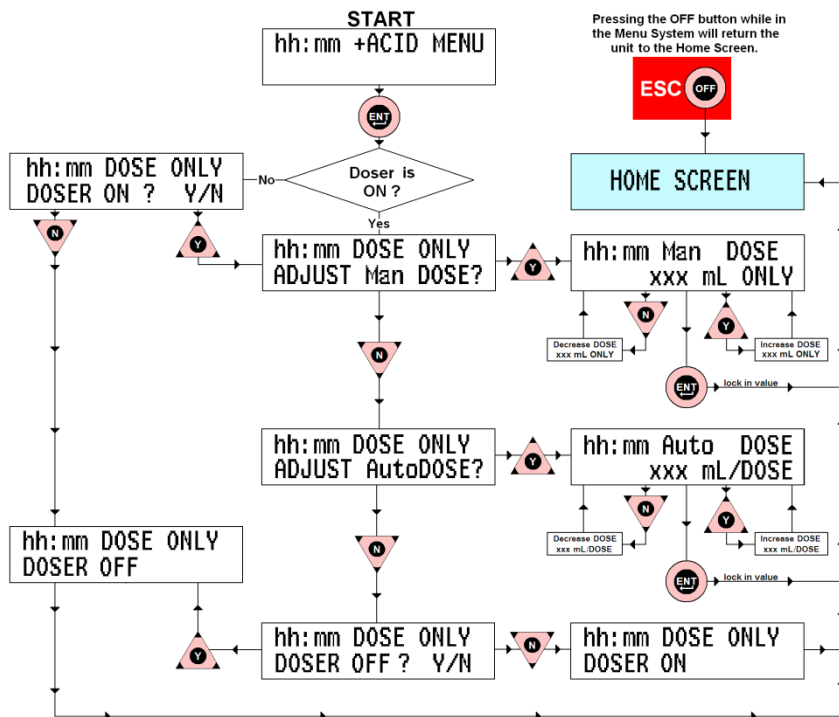
Accessing the +ACID MENU: Only available when a dosing device is attached.
The +ACID MENU is accessed in the same way that all other MENUs are accessed – an ENT-pad press will shift to the BASIC MENU SYSTEM (TIMER MENU), then UP/DOWN-pad presses will shift to the +ACID MENU. Once the LCD Line1 reads "hh:mm +ACID

MENU" – press ENT-pad to enter. After entering the +ACID MENU Line1 of the LCD will read "hh:mm DOSE ONLY".

The +ACID MENU is relatively long compared to the other MENUs but is simple to use. If you do not want to change any values simply pressing the ENT-pad (or DOWN-pad for NO) will move past each section. If you are worried about making a change before checking with this manual do an OFF/ESC-press or simply do not touch anything and normal operation will resume after a few seconds.

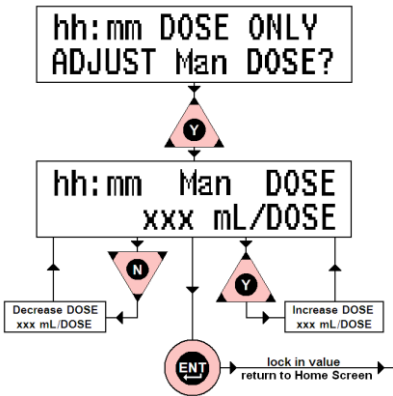The complete +ACID MENU is shown below:

Acid Dosing System – Turning it ON and OFF

The ADS default is ON when it is enabled for the first time. To turn the ADS OFF navigate to the +ACID MENU and ENTer. After entering the +ACID MENU Line2 of the LCD will read "ADJUST Man DOSE?". Answer No with a DOWNpress to show "ADJUST AutoDOSE?", then DOWNpress to show "DOSER OFF ? Y/N". A DOWNpress will turn the ADS OFF.

To turn the ADS ON (from OFF) simply ENTer the +ACID MENU and see on Line2 of the LCD "DOSER ON? Y/N". Answer Yes with an UPpress will turn the ADS ON and move to "ADJUST Man DOSE?".
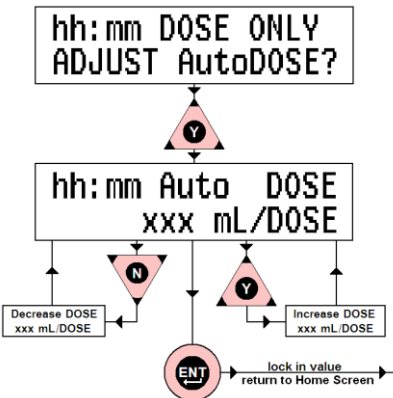
Adding Acid Manually – the ADJUST Man DOSE Sub-Menu:

Adjusts the amount of acid added as an immediate dose. Adjustment is from 0mL (OFF) to 750mL in 15mL increments.
This function is useful for priming acid lines after an acid drum change, and for adding a large dose of acid after adding buffer (see POOL BALANCE section of the User Manual supplied with your product).
UPpress (Yes) to enter ADJUST Man DOSE Sub-Menu.
Line1:   "hh:mm Man DOSE";
Line2:   xxx mL"
UP/DOWN-pads will adjust xxx value.
ENTpress to lock in value and move to back to normal operation. Dosing should begin in

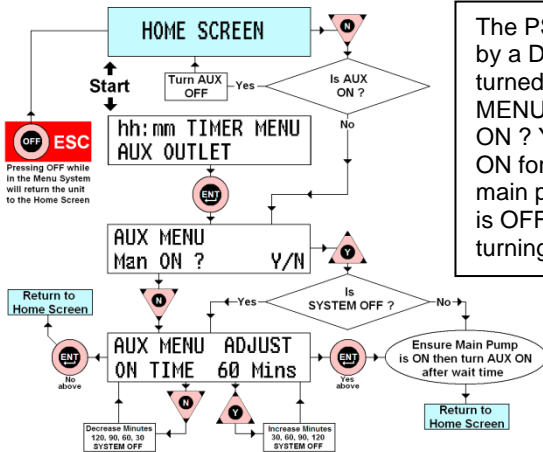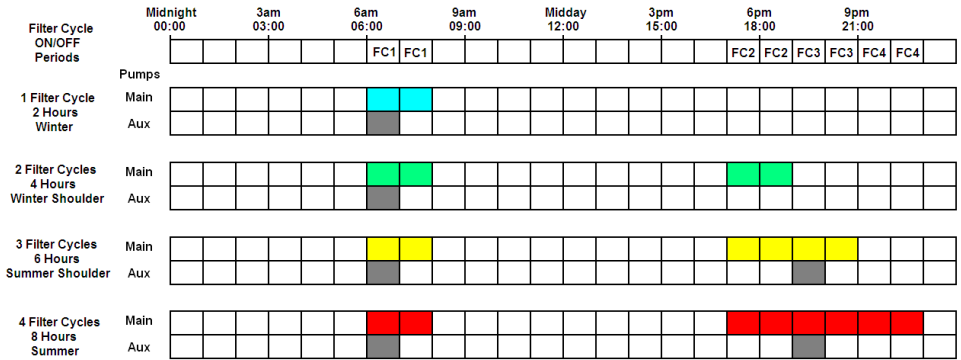## Automatically Dose Acid – the ADJUST AutoDOSE Sub-MENU:

Adjusts the amount of acid added as an automatic dose. Adjustment from 15 to 300mL/dose in 15mL increments.
UPpress (Yes) to enter ADJUST Auto DOSE Sub-Menu.
Line1:   "hh:mm Auto DOSE";
Line2:   xxx mL"
UP/DOWN-pads will adjust xxx value.
ENTpress to lock in value and move to back to normal operation.
The value will be used by the algorithm to determine how much acid and when to add it autiomatically.

The AUX MENU - Optional (for a Power Separator / Extra Pump)

The AUX MENU is used to select and adjust the Timing System for a Power Separator (PS) – a device used to control the power from a separate Socket Outlet. As examples this can be used to control the pump for an in-floor Cleaning System or for a Pressure Cleaner. The menu is only activated when a PS is attached to the unit. At first application of the PS the unit will ask "EXTRA TIME MENUs REQUIRED? Y/N" – an UP press (Yes) allows the FILTER CYCLES, TIMER DEFs and AUX Menus to be added to the Basic Menu system.

The AUX System is designed to run the PS in conjunction with main pump timing. The timing of the AUX System is tied to Filter Cycles 1&3 and has a fixed operating time of 30, 60, 90 or 120 minutes. Filter Cycles 1&3 must be set to run for the same period or longer.

The graphic below shows the relationship between Filter Cycles, Main Pump operation and Cleaner Pump operation (Aux, 60 minutes): (see Filter Cycle information in the User Manual supplied with your product)

The PS is activated from the Home Screen by a DOWNpress. If the PS is ON then it is turned OFF. If the PS is OFF the AUX MENU is activated and Line2 reads "Man ON ? Y/N" – an UPpress (Yes) will turn it ON for the selected time (along with the main pump if not already ON). If the System is OFF the unit allows adjustment before turning the PS ON.