



Instruction Sheet

30x30 Pellet Chlorination Skid

Before powering the unit on, make all electrical connections in accordance with local codes. Additionally, read all supplied manuals for instructions. Make all system plumbing connections (the unit is shipped with threaded connections install, but also supplied with socket connections as well). Once all manuals have been read, the Free Chlorine Sensor needs to be conditioned prior to generating stable values. The Free Chlorine Sensor is shipped with a protective tube covering the cathode, remove the tube. It is also shipped with 2 membrane cap assemblies, 1 replacement pressure relief band, 3 sheets of polishing paper, 2 bottles of electrolyte and a syringe with needle. First, fill the sensor with electrolyte using the provided syringe and needle. Next attached the membrane cap assembly, then install sensor into flow cell. Turn the Main Power switch to the ON position. For new sensors, connect the sensor to power and allow to run overnight (at least 12 hours) before calibration. Refer to the specific O&M manual for the Free Chlorine Sensor for more information. Please note that after 30 minutes the screen will go to sleep, but the unit is still running. To wake the screen up, press anywhere on the screen.

Once the sensor has been condition and the unit has powered and booted up, you should see the Home screen as indicated in Figure 1.

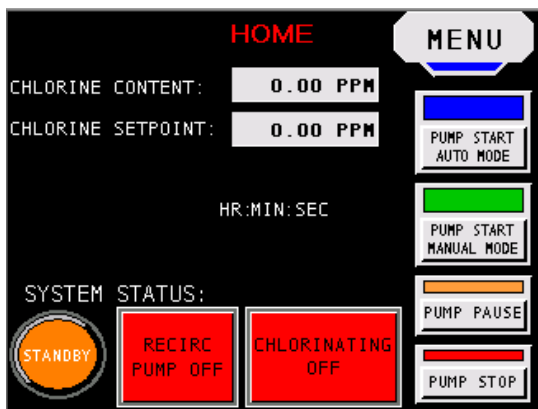


Figure 1. Home Screen

The Home Screen will display the Free Chlorine Content of the water, the Free Chlorine Setpoint, the System Status (Standby or Running), if the Recirculation Pump is On or Off, the Recirculation Pump On or Off time and if the unit is Chlorinating. The Home Screen also has a Menu Button that, when pressed, will allow one to quickly access any of the other screens. Press the Menu button to edit the Chlorination Settings, Calibration and Recirculation Pump Settings. Once the Menu button is pressed the display should look like Figure 2.

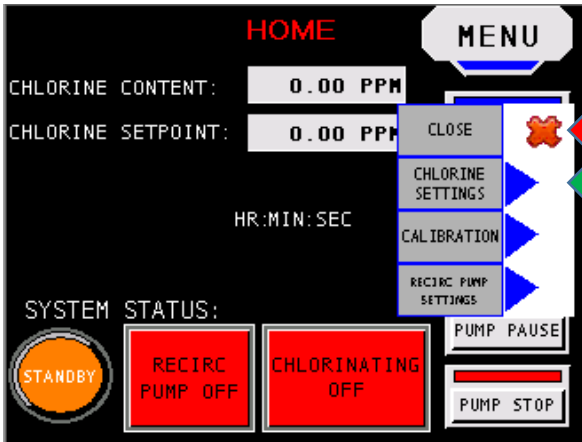


Figure 2. Home Screen with Opened Menu

Pressing the red X closes the Menu.

Selecting an option from the open menu will take you to the screen indicated by the title. For example, selecting "Chlorine Settings" will open the Chlorine Settings Screen.

Press the red X or the Close button to close the menu screen. Use the menu screen to access the Chlorine Settings, Calibration, or Recirculation Pump Settings by selecting the desired button.

From the Menu, press the Chlorination Settings screen to enter the Chlorination Settings. On the Chlorination Settings screen you will enter the Free Chlorine Setpoint and the Hysteresis in their respective boxes as shown in Figure 3.

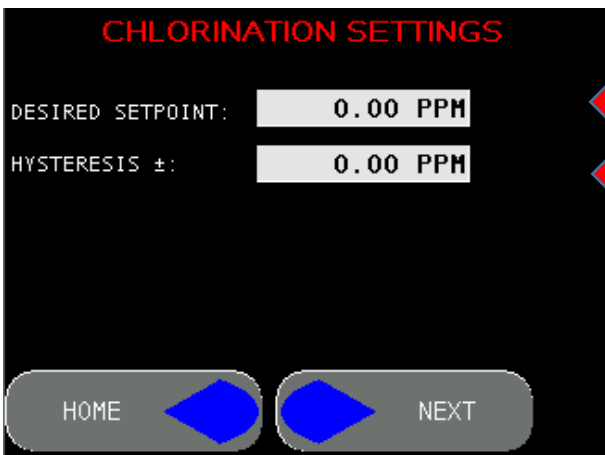
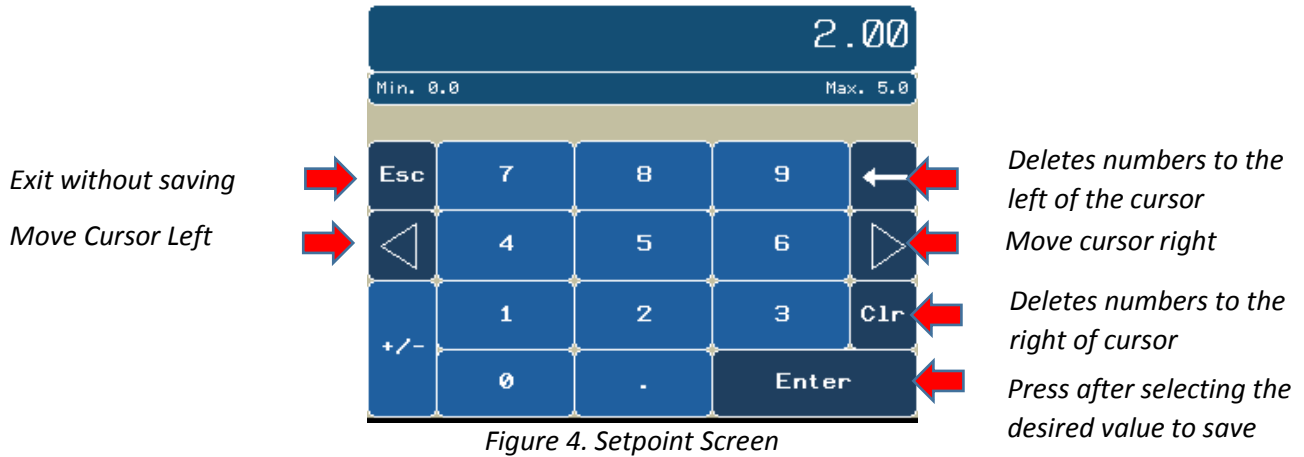


Figure 3. Chlorination Settings Screen

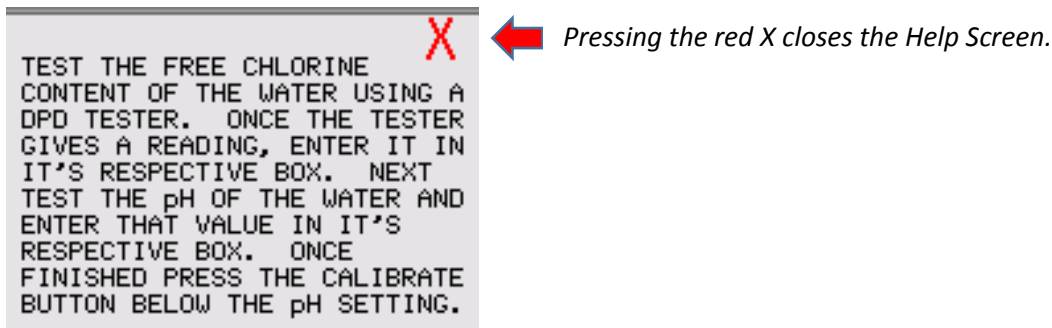
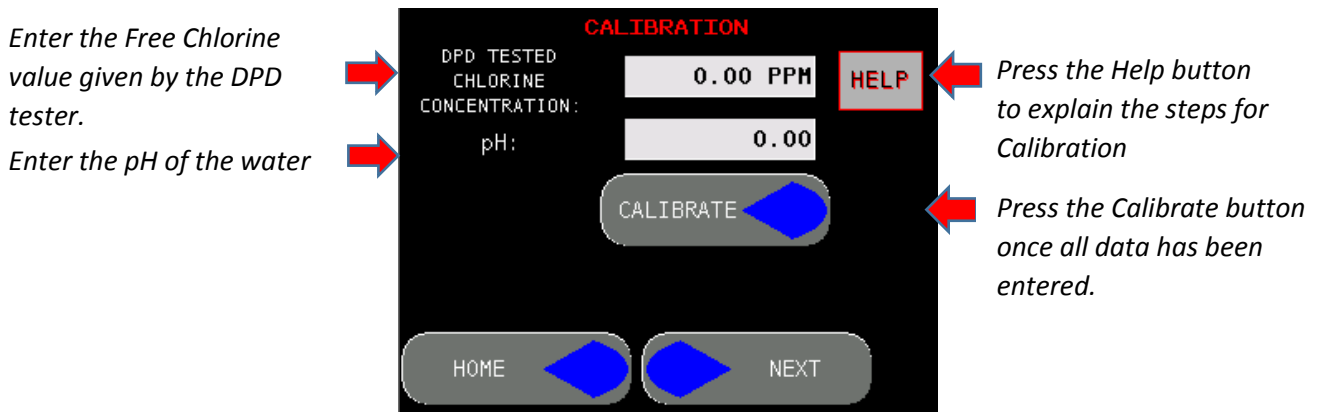
Select this box to enter desired Setpoint

Select this box to enter desired Hysteresis

To enter the desired Setpoint and Hysteresis, press the grey area that displays 0.00 PPM. A new screen will be displayed in which you can enter the respective values, as shown in Figure 4. Once the Setpoint value has been entered, press the Enter button. Use the Esc button to exit the keypad without entering any values. The left triangle will move the cursor to the left and the right triangle will move the cursor to the right. The back arrow acts as a backspace button and will delete one digit at a time to the left of the cursor. The Clr button will delete one digit at a time to the right of the cursor, similar to the Delete button on a computer.



After inputting all the appropriate information in the Chlorination Settings screen, press the next button for calibration. On the Calibration screen you will enter the DPD measured Free Chlorine and the measured pH of the water into their respective fields as shown in Figure 5. Entering the information is the same process as it was for the previous screens. Once the information has been entered press the Calibrate button to calibrate the unit and take you to the next screen. The Help button, when pressed, will pop up a screen explaining the steps for calibrating the unit, as shown in Figure 6. To exit the Help screen, press the Red X in the top right of the screen.



Once the Calibrate button has been pressed the unit will be calibrated and take you to the Recirculation Pump Settings screen as shown in Figure 7. On this screen you will enter the desired Recirculation Pump On Time, the time the recirculation pump is on for, and the desired Recirculation Pump Off Time, the time the recirculation pump is off for. The recirculation pump operation buttons are on both this screen and the home screen. To run the pump based on the desired times, press the Pump Start Auto Mode button. To run the pump in manual mode, pump will run until the stop button is pressed, press the Pump Start Manual Mode button. To pause the timers, press the Pump Pause button, and press it again to resume. To stop the pump, simply press the Pump Stop button.

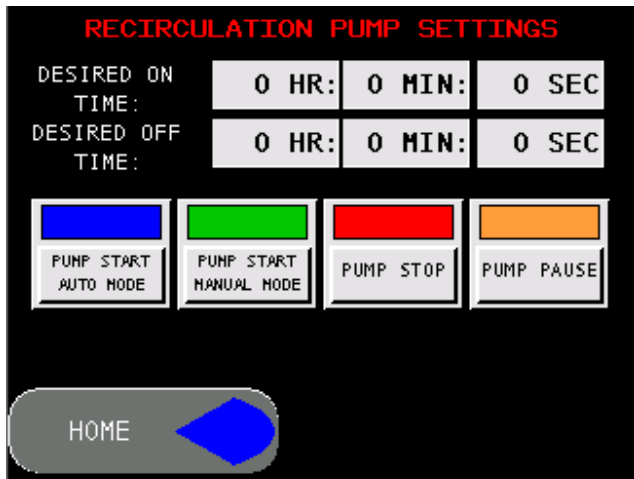
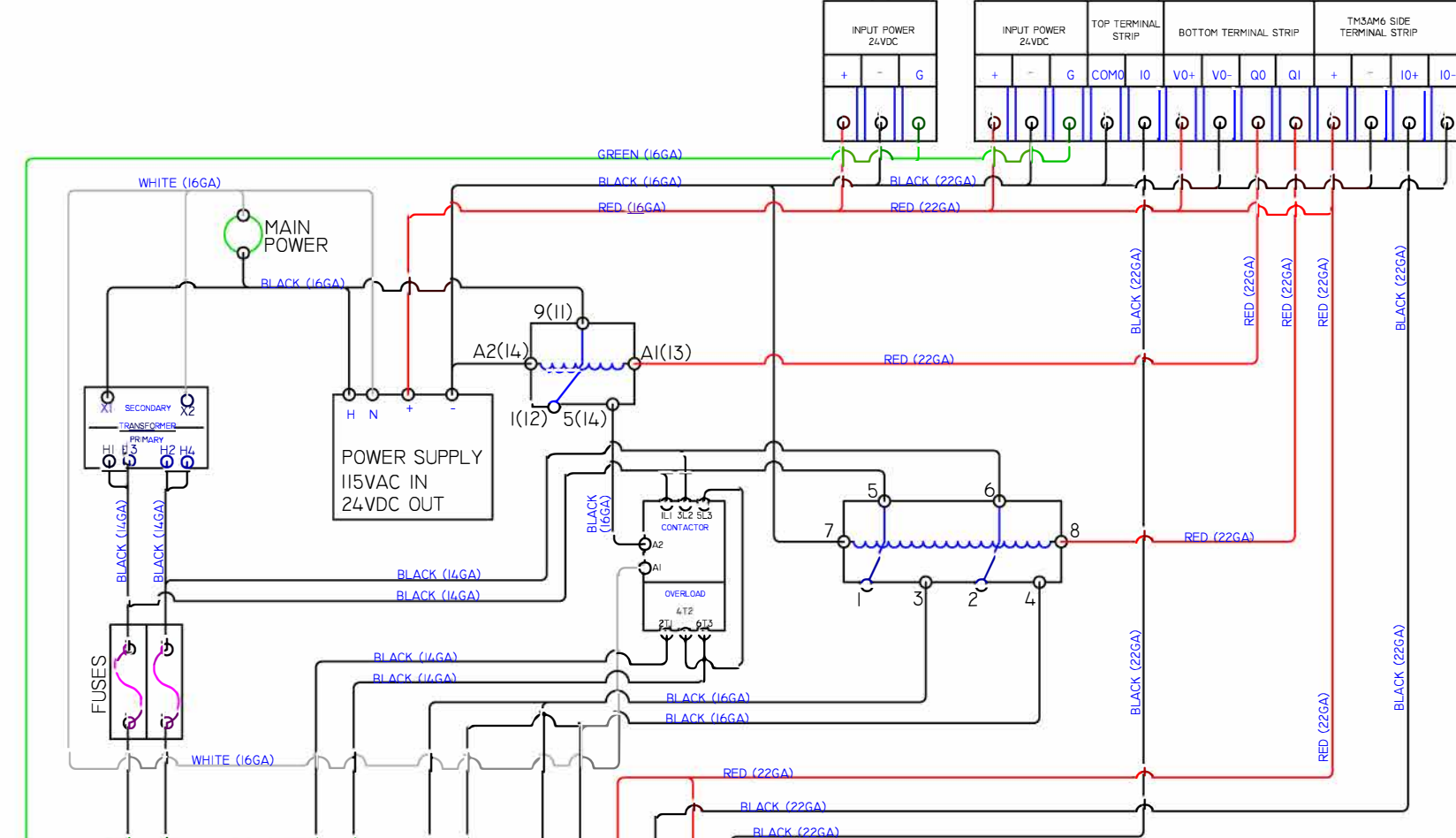


Figure 7. Recirculation Pump Settings Screen

HMI TERMINAL BLOCKS

PLC TERMINAL BLOCKS



DRAWN:	RB
DATE:	12/08/2017
CHK'D:	
DATE:	
APPRVD:	
DATE:	
SCALE:	NTS
SIZE:	A
RELATED PARTS LIST:	NONE NONE NONE

Clean Water systems & stores inc. www.cleanwaterstore.com 1-831-462-8500	
PROJECT:	
DWG FILE:	
SHEET: 1 OF 1	PART #1600-1252

REV. #	DESCRIPTION:	BY:	DATE:
--------	--------------	-----	-------

A

B

C

D

E

F

1

2

3

4

5