
KNIGHT[®]



On-Premise Elite Programming Manual

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CAUTION: Wear protective clothing and eyewear when dispensing chemicals or other materials. Observe safety handling instructions (MSDS) of chemical mfrs.



CAUTION: To avoid severe or fatal shock, always disconnect main power when servicing the unit.



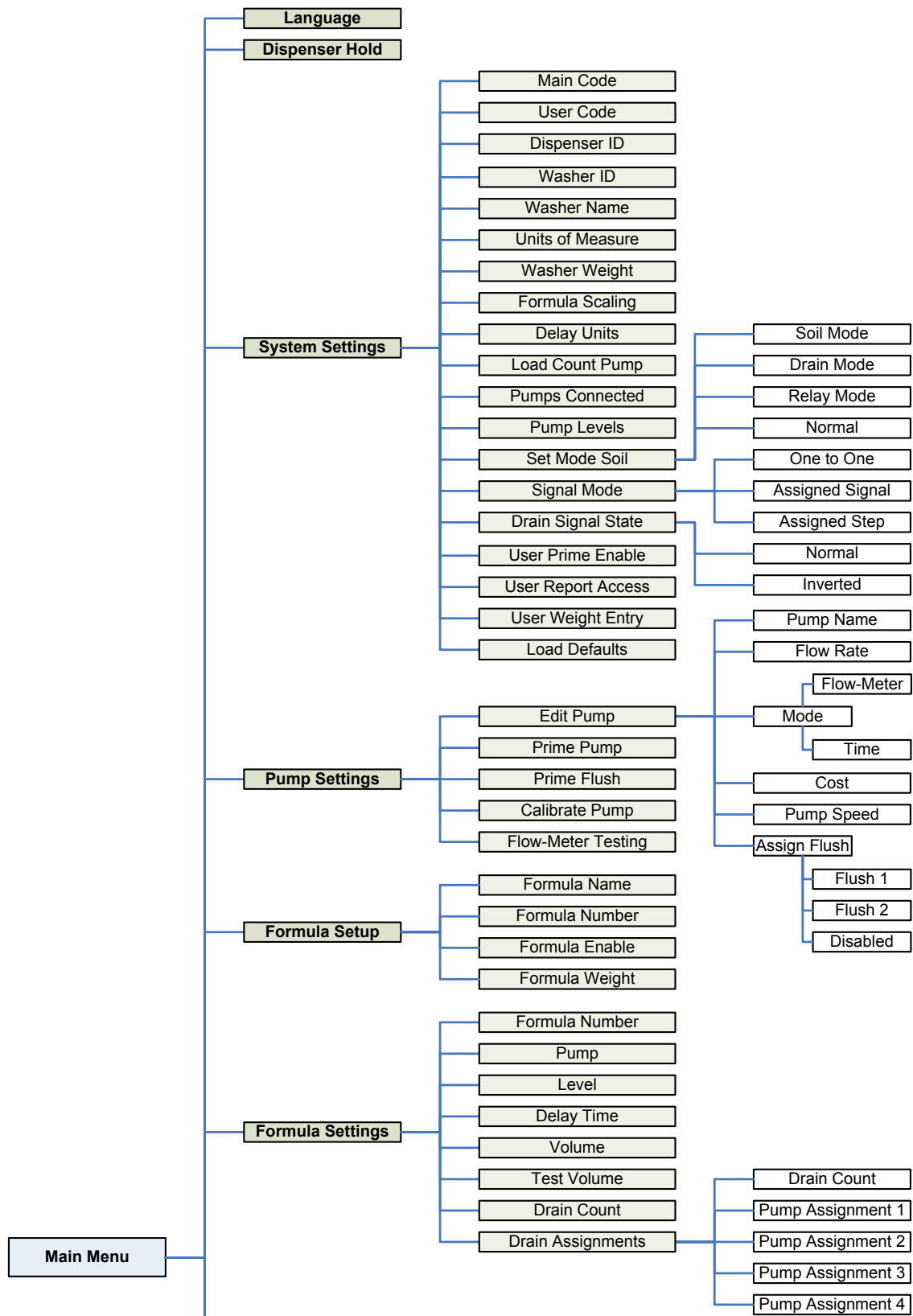
CAUTION: When installing any equipment, ensure that all national and local safety, electrical, and plumbing codes are met.

PROGRAMMING PARAMETERS

Parameters	Default Value	Range
① Main Pass Code	0000	0000—9999
① User Pass Code	0000	0000—9999
Pump Flow Rates	0	0-999.9 Oz, 9999 ml
System Mode	Normal	Normal, Soil, Drain, Relay
Signal Mode	One-to-One	One-to-One, Assigned Signal, Assigned Step
Formula #	1	1 to 100
Load Count Pump	6	1 to 8 for Multi-Washer, 1 to 10 for Single-Washer
② Load Counter	0	0 – 999
Units of Measure	US	US, Metric
Pump Delay Units	SEC	SEC, MIN
Signal Lockout Time	0	0-99 minutes
AFS Select	Disabled	Disabled, Enabled
System Lockout Time	0	0-99 minutes
AFS Mode	Micro	Micro, Chart
AFS Time	1	1, 2, 3, 4, 5
Flush Mode	With	With, After
Flush Time	0	0-255 sec
Drain Signal Polarity	Normal	Normal, Inverted
Washer Signal Qualify Time	1	1-99 sec
Chemical Dosing Mode	Time	Time, Flow-Meter
Flush Error Delay	5	0-99 sec
Formula Run Times/Volumes	0	0-999.9 oz, 0-9999 ml
Formula Delay Times	0	0-999 sec or 0-999 min
Formula Names	Formula ##	Alpha-numeric range

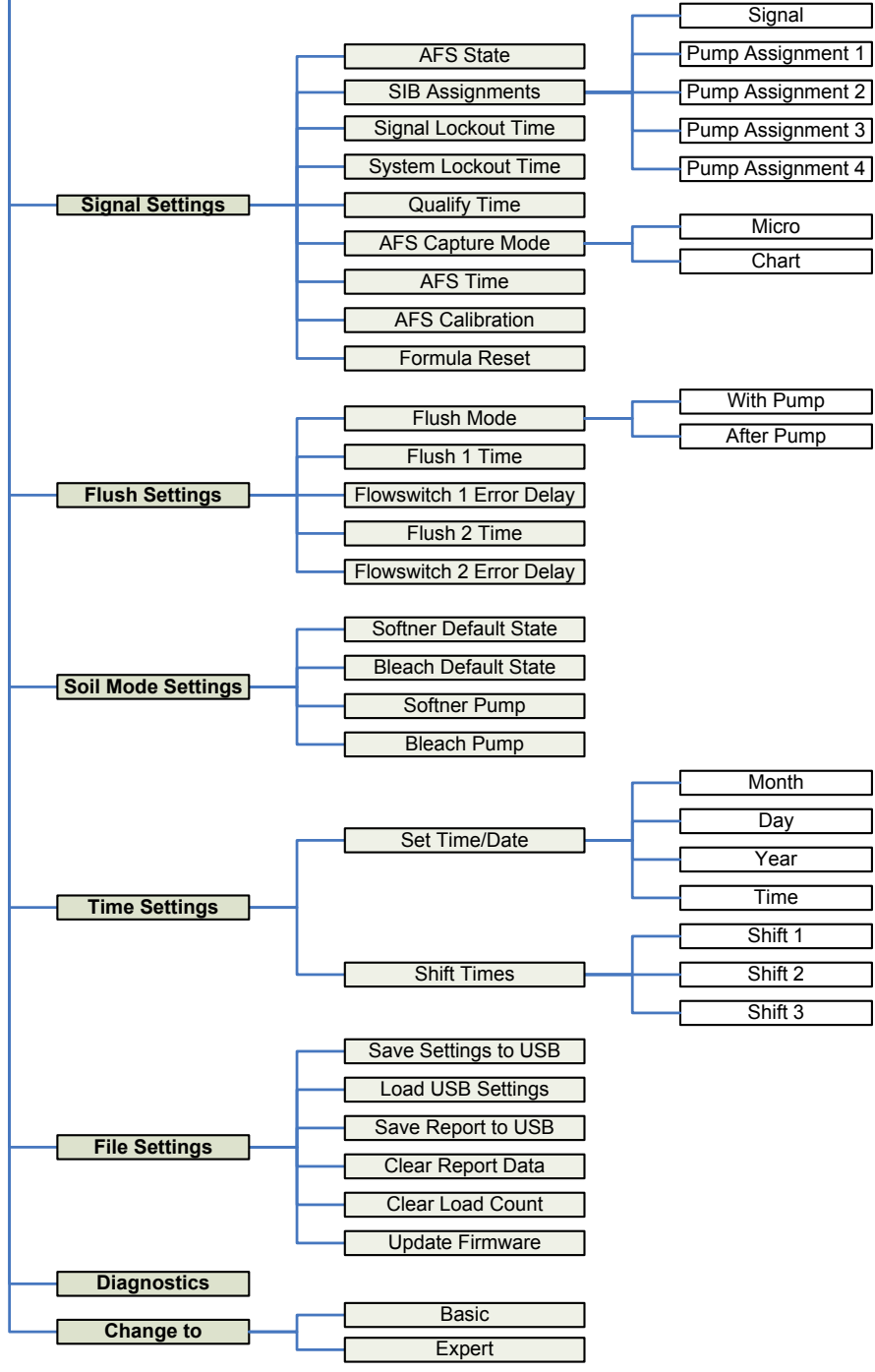
- ① Pass code does change when clearing all programmed settings
- ② The load counter has its own menu to allow resetting back to zero

MENU TREE — ALL SETTINGS (PART 1)

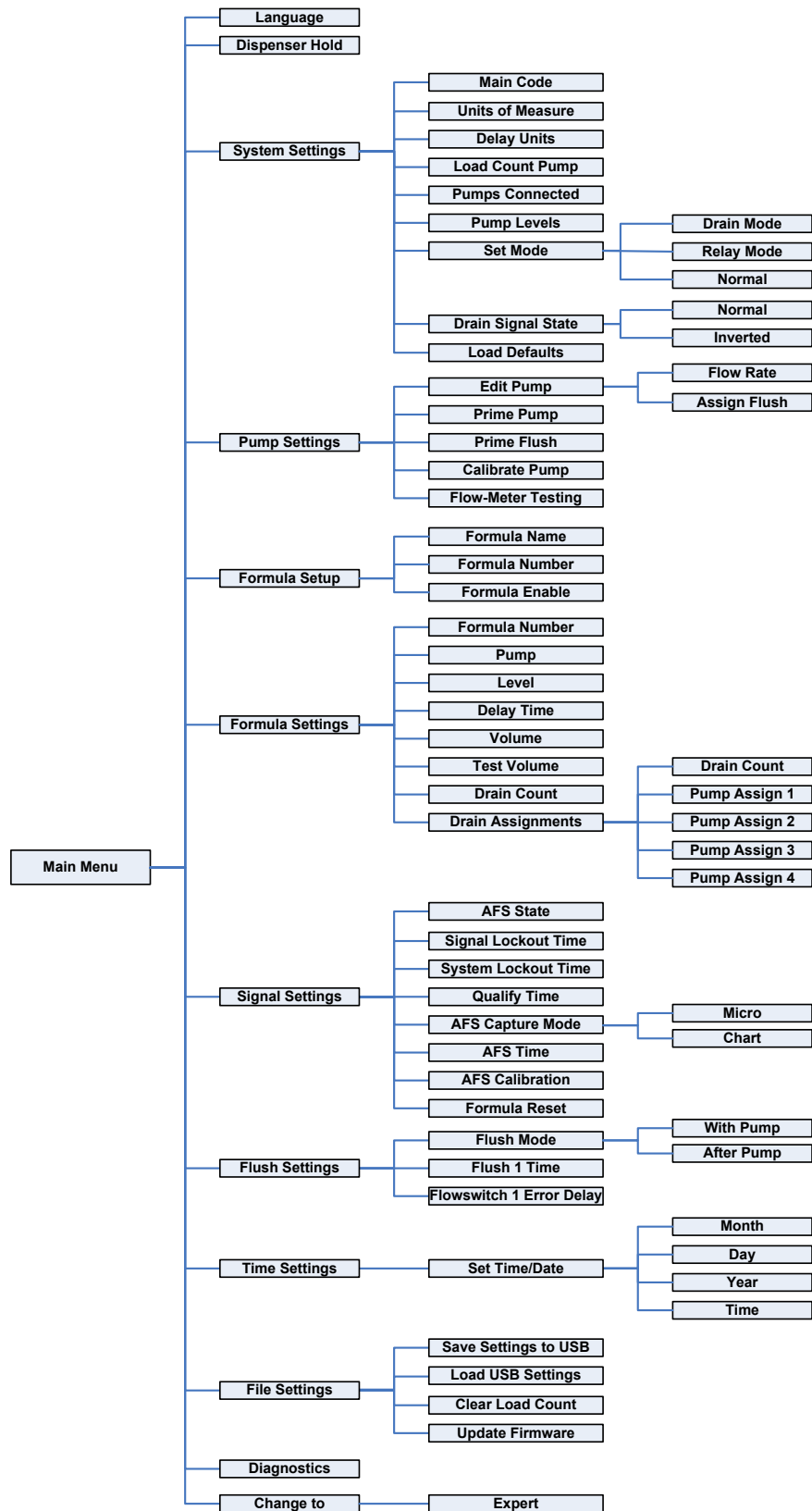


Main Menu

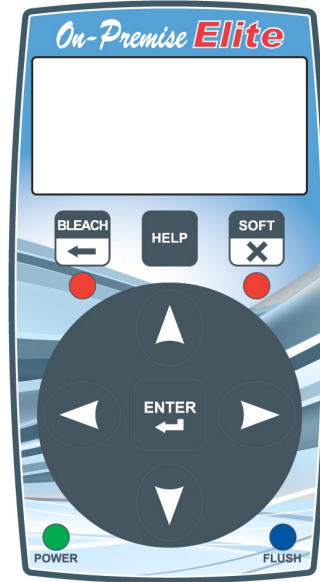
MENU TREE — ALL SETTINGS (PART 2)



MENU TREE — BASIC MODE



KEYPAD DIAGRAM



	<p>When programming the system, allows you to change the value of a particular character (i.e. pump number, formula name, etc). A blinking “cursor” indicates which character will be changed by these buttons. Press repeatedly to advance through all available letters and numbers</p>
	<p>Allows you to choose the desired formula (unless using RELAY mode) for operation. When programming the system, allows you to move the cursor position within certain menu selections to choose items you wish to change.</p>
	<p>Allows you to make item selection and saves settings into memory when programming.</p>
	<p>The help menus will bring up useful information for programming the system by explaining the feature you are trying to set. Simply press this button when you are not sure about the setting that is on your display and a help screen will pop-up to assist you.</p>
	<p>Allows you to enable or disable the bleach pump when using soil mode in the run time screen. You can choose if the bleach pump is enabled or disabled by default. Pressing this button will override the default setting. This button will also function as a back button in the programming screens.</p>
	<p>Allows you to enable or disable the softener pump when using soil mode in the run time screen. You can choose if the softener pump is enabled or disabled by default. Pressing this button will override the default setting. This button will also function as an exit button to leave the programming screens.</p>

PROGRAMMING

All systems are shipped from the factory with the access code set at 0000. Changing the access code is explained later in this manual. **To get started, hold the ENTER button until you see the following display (this should only take a few seconds).**

ENTER CODE ****	Use ▲/▼ to move Setting option and push ENTER. Hit ENTER again to select enter code. Use the ◀/▶ to move cursor left or right. Use ▲/▼ buttons to change. (Not necessary if code has not yet been changed from factory default of 0000) to input the access code, then press ENTER.
LANGUAGE	To change the language (for the programming menus and running displays) first press ENTER to highlight the language name. Then use the ◀/▶ buttons to select the desired language and press ENTER again to confirm.
DISPENSER HOLD	Dispenser hold allows you to pause the system if you need to stop the dispenser for maintenance. First press ENTER to highlight the setting. Then use the ◀/▶ buttons to choose OFF or ON and press ENTER again to confirm.
SYSTEM SETTINGS	Use ▲/▼ to move the cursor through the options and press ENTER to enter system settings menu. The system setting are the programming options that affects the whole system and related submenus like units of measure, pump levels, set mode, etc.
PUMP SETTINGS	Use ▲/▼ to move the cursor through the options and press ENTER to enter pump settings menu. The Pump Setting allows you to edit, prime, and calibrate each individual pump.
FORMULA SETUP	Use ▲/▼ to move the cursor through the options and press ENTER to enter formula setup menu. The formula setup allows you to select and name each formula name and number. The formula setup also allows you to enable or disable each individual formula.
FORMULA SETTINGS	Use ▲/▼ to move the cursor through the options and press ENTER to enter formula settings menu. The formula settings allows you edit each formula. You can select the formulas and assign pumps, levels, delay times, volumes, and test volumes.

SIGNAL SETTINGS	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter signal settings menu.</p> <p>The signal settings allows you edit signal lockout time, system lockout time, qualifying time, and formula reset.</p>
FLUSH SETTINGS	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.</p> <p>Flush setting allows you to set flush mode, flush time, and error delay.</p>
SOIL MODE SETTINGS	<p>NOTE: You will only see Soil Mode Settings in the Main Setting menu when you choose soil mode operation, which is located in system settings.</p> <p>Use ▲/▼ to move the cursor through the options and press ENTER to enter soil mode settings menu. This menu allows you set the bleach default state and pump number, softener default state and pump number.</p>
TIME SETTINGS	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.</p> <p>This selection allows you to choose if you wish to set the system time and date.</p>
FILE SETTINGS	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.</p> <p>The file settings are the menu options that allow you to transfer and communicate with the USB. You can save your program setup to USB, load USB settings, clear load count, or update firmware from this menu.</p>
DIAGNOSTICS	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.</p> <p>The diagnostics allow you test to see if your dispenser is receiving signals from the washer.</p>
CHANGE TO BASIC MODE	<p>Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.</p> <p>Change to basic mode eliminates the extra the menus and programming options offered in the OP Elite to allow for easier use when using the OP Elite for basic On Premise operation only.</p> <p>NOTE: If you have items programmed in an advanced mode and switch to basic mode, the basic mode will NOT keep the advance mode programs for the programming features it does have. The other programmed options will be eliminated or defaulted.</p>

SYSTEM SETTINGS

Use ▲/▼ buttons to move cursor to system settings and push ENTER to open system settings menu options. Use ▲/▼ buttons again to move cursor through system settings options and press ENTER to edit that option.

CHANGE MAIN CODE

This selection allows the “main” access code to be changed. The main access code allows entry into the programming menus as well as report functions. Use the ▲/▼ buttons to change each individual number column and ◀/▶ buttons to move the cursor to the next number column. Once the new code number is set, then press ENTER to continue.

NOTE: If the access code is changed, keep a record of the new code in a safe place. If the new code is forgotten, contact Knight.

CHANGE USER CODE

This selection allows the user access code to be changed. Use the ▲/▼ buttons to change each individual number column and ◀/▶ buttons to move the cursor to the next number column. Once the new code number is set, then press ENTER to save access code.

NOTE: The user access code allows access to a limited number of menu selections.

DISPENSER ID

This selection allows the dispenser id number to be changed. Use the ▲/▼ buttons to change each individual number column and ◀/▶ buttons to move the cursor to the next number column. Once the id number has been set, then press ENTER to save the setting into memory.

NOTE: Set your dispenser IDs so that they correspond with the washer numbers.

WASHER ID

This selection allows the washer id number to be changed. Use the ▲/▼ buttons to change each individual number column and ◀/▶ buttons to move the cursor to the next number column. Once the id number has been set, then press ENTER to save.

EDIT WASHER NAME

This selection allows the washer name to be changed. Use the ▲/▼ buttons to change each individual letter/number column and ◀/▶ buttons to move the cursor to the next letter/number column. Once the washer name has been set, then press ENTER to save.

UNITS OF MEASURE

This selection allows you to choose between US or Metric units of measure. Use the ◀/▶ buttons to select the unit of measure, then press ENTER to save.

WASHER WEIGHT	<p>This selection allows you to enter the load capacity for the wash wheel that the dispenser is presently connected to. Use the ▲/▼ buttons to change each individual number column and ◀/▶ buttons to move the cursor to the next number column. Press ENTER to save into memory.</p> <p>NOTE: Washer weight is important when you enable formula scaling. This will directly affect dispensing volumes when using the scaling feature.</p>
FORMULA SCALING	<p>The formula scaling feature allows you to quickly change and scale your dispensing volumes based on your washer weight. The dispenser will adjust dispensing amount using calculations of amount of chemical per kg or 100 lbs and multiply that by the washer weight. Use the ◀/▶ buttons to Enable or Disable the scaling feature, and push ENTER to save setting.</p>
DELAY UNITS	<p>This selection allows you to choose seconds or minutes as the delay time unit of measure. Use the ◀/▶ buttons to choose the desired setting, then press ENTER to continue.</p>
LOAD COUNT PUMP	<p>This selection shows which pump is being used to count loads. <u>Always</u> select the last pump in the system that will receive a signal. Use the ▲/▼ buttons to choose the number, then press ENTER.</p>
PUMPS CONNECTED	<p>Use ▲/▼ buttons to move cursor to pumps connected and push ENTER. Use ▲/▼ buttons to select the number of pumps in your system and push ENTER to save.</p>
PUMP LEVELS	<p>This selection allows you to choose if you wish to use multiple pump level programming. Pump levels allow the pumps to dispense up to 4 individual dosage amounts within the same formula. Use the ◀/▶ buttons to Enable or Disable pump levels. Press ENTER to save.</p>
SET MODE	<p>This selection allows you to choose between the following modes of operation: Normal, Soil, Drain, or Relay. Use the ◀/▶ buttons to select the desired operating mode, then press ENTER.</p> <p>NOTE: See the following page for a detailed description of each operating mode.</p>

SET MODE (DESCRIPTIONS)

NORMAL MODE: The system is capable of 100 user selectable formulas with each formula having unique volumes and delay times for each pump. Signals from the washer trigger the pumps, then the OP-Elite takes control to count down delay times and run times with up to 4 individual "levels" (explained below) for each pump. The supervisor of the facility, or the machine operator, will select the formula using ◀/▶ buttons to choose the appropriate wash formula when the formula menu line is highlighted on the run time screen.

Programming "levels" allows a pump to inject different amounts of chemical for multiple signals to the same pump during a formula. For example, pump 1 could inject 8 ounces of chemical on its first signal, then later inject 12 ounces of chemical on its second signal. Four levels are available for any pump on any formula, except for the load count pump. **ONLY 1 LEVEL CAN BE PROGRAMMED FOR THE LOAD COUNT PUMP** (and any other pump that may be signaled simultaneously with the load count pump's signal). The level feature can also be used to "skip over" an injection. Simply do not program any volume or delay time for that level.

When a formula begins (after power is turned on or the "Load Count" pump has been triggered from the previous formula) the first signal to a pump will activate level 1. The signal has to be present for at least qualifying time to be recognized. The second signal to the pump during the formula will activate level 2. The third signal to the pump during the formula will activate level 3. The load count pump signal must be received to reset levels in preparation for the next formula.

DRAIN MODE: This mode is similar to normal operation but requires only one signal source from the washer and works by counting the number of drains during a wash cycle. When programming the dispenser for Drain Mode use, each chemical pump is assigned a specific drain occurrence ("drain count") to inject product on. This feature only affects how the pumps are triggered – all other functions such as pump volumes, delay times, and flush mode, will still operate in their normal fashion.

During a wash formula, each drain signal is counted and the pumps inject chemical according to the drain number they are assigned. Drain mode is similar to normal operation, in that the pumps are programmed with volumes (and delay times if necessary) and the flush mode works the same way it does in normal operation.

The "multiple level" feature works slightly different in drain mode, because of the way drain mode counts the number of signals to pump #1 input. If a second injection level is required, it should be programmed to inject on a later drain number (occurrence) than the first level for that pump.

- Using signal lockout is not recommended for drain mode operation.
- During a wash cycle, when pumps are idle, the display will show the formula name on the bottom line of the display and the current drain count on the top line. When a normal wash cycle has ended, the load count will be displayed.
- Cycling power will reset the drain count if an incomplete load has been run.
- All pump dosing must occur prior to the Last Drain Signal. The Last Drain Signal indicates to the dispenser to end the cycle for the active formula. For example, if you have a last drain count of 5. You can assign pumps to drain counts 1 through 4, drain count number 5 will act like a load count pump to end the cycle.
- The Drain Signal State configures the dispenser to increment the drain count based on signal polarity. If the Drain Signal state is set to Normal, an Energized Drain Signal will increment the drain count. If the Drain Signal State is set to Inverted, a De-energized Drain Signal will increment the drain count.

RELAY MODE (not for use with multi-washer): This type of operation is typically used with a single microprocessor controlled washer. When set to relay mode, the system will run its pumps as long as their respective signals are present. To accomplish this, the system "by-passes" its volume and delay time capabilities for the chemical pumps; however, flush mode is still available for optional use.

SOIL MODE: This operation allows three different soil classifications (light, medium, heavy) and the option of selecting bleach or softener. When a wash cycle is ended, the system automatically resets itself to default settings. For example: The medium soil classification is automatically selected. The operator can choose light or heavy based on the next soil load. The bleach and softener pumps are also reset to their default settings (enable or disable, based on your specific programming preference). The bleach and softener pumps can also be overridden as necessary for the next wash cycle.

- Formula 1 = Heavy Soil Formula 2 = Medium Soil Formula 3 = Light Soil

SIGNAL MODE	<p>Use ▲/▼ buttons to move cursor to signal mode and push ENTER. Use the ◀/▶ buttons to select one-to-one, assigned step, or assigned signal, then ENTER to save.</p> <p>ONE-TO-ONE: Each pump has its own independent signal.</p> <p>ASSIGNED STEP: Each signal input on the SIB becomes a signal number (for programming) and can be assigned to multiple pumps in each formula. Signal 1 increments all assigned pumps to level 1 if pumps have not dosed at level 1. Signal 2 increments all assigned pumps to level 2 if pumps have not dosed at level 2. Signal 3 increments all assigned pumps to level 3 if pumps have not dosed at level 3. Signal 4 will increment all assigned pumps to level 4 if pumps have not dosed at level 4. Signals 5-10 will increment all assigned pumps to the next level. All Pumps that increment in level will then dose based on the pump level.</p> <p>ASSIGNED SIG: Each signal input on the SIB becomes a signal number (for programming) and can be assigned to multiple pumps. Each time an assigned signal is received, the pumps will sequence through normal volume levels.</p>
DRAIN SIGNAL STATE	<p>NOTE: You will only see this display if Drain Mode was selected in the previous step.</p> <p>This selection allows you to select drain signal function. NORMAL An Energized Drain Signal will increment the drain count. INVERTED. A De-energized Drain Signal will increment the drain count. Use the ◀/▶ buttons to make your selection, then press ENTER to continue.</p>
USER PRIME	<p>This selection allows or prohibits the user from priming the chemical pumps. Use the ◀/▶ buttons to Enable or Disable user prime. Press ENTER to save.</p>
USER REPORT ACCESS	<p>This selection allows or prohibits the user from downloading reports. Use the ◀/▶ buttons to Enable or Disable user report access. Press ENTER to save.</p>
USER WEIGHT ENTRY	<p>This selection allows or prohibits the user from entering washer weight. Use the ◀/▶ buttons to Enable or Disable user weight entry. Press ENTER to save.</p>
LOAD DEFAULTS	<p>This selection allows you to clear pump volumes, flow rates and formula names in the dispenser and will reset the system to the factory default settings. Use the ◀/▶ buttons to select Yes to load defaults or No to leave the system as is. Press ENTER to save.</p>

PUMP SETTINGS

Use ▲/▼ buttons to move cursor to pump settings and push ENTER to open pump settings menu options. Use ▲/▼ buttons again to move cursor through system settings options and press ENTER to edit that option.

EDIT PUMP

Use ▲/▼ buttons to move cursor to edit pump and push ENTER. Use ▲/▼ buttons to change pump number and push ENTER again to enter edit pump properties.

EDIT PUMP NAME

This selection allows you to change the chemical pump names. Use ▲/▼ buttons to move cursor to edit pump name and push ENTER. Use ▲/▼ buttons to change pump letter/number. Use ◀/▶ to move cursor to next letter/number to change. Push ENTER to save.

FLOW RATE

Use ▲/▼ buttons to move cursor to flow rate and push ENTER. Use ▲/▼ buttons to change flow rate number. Use ◀/▶ to move cursor to next number to change. Push ENTER to save flow rate.

NOTE (1): The flow rate is the capacity of the pump and cannot be changed until the pump is calibrated.

NOTE (2): If the flow rate is changed, it will disable flow meter mode of pump operation.

MODE TIME / FLOW-METER

This setting determines if you want to use the pump in time mode or use the pump in flow meter mode to pump chemical.

Use ▲/▼ buttons to move cursor to mode and push ENTER. Use ◀/▶ to move cursor to select time or flow meter. Push ENTER to save.

NOTE: The pump must be calibrated prior to selecting flow meter mode.

COST

Selection allows you to input the chemical cost. Use ▲/▼ buttons to move cursor to cost and push ENTER. Use ▲/▼ buttons to change cost. Use ◀/▶ to move cursor to next number to change. Push ENTER to save.

PUMP SPEED

Pump speed adjusts how fast the pump will run in a range of 20 - 100. Use ▲/▼ buttons to move cursor to pump speed and push ENTER. Use ▲/▼ buttons to change setting. Use ◀/▶ to move cursor to next number to change. Push ENTER to save.

NOTE: The pump should be re-calibrated if the speed is changed.

FLUSH IS

Use ▲/▼ buttons to move cursor to flush is and push ENTER. Use ◀/▶ to choose flush 1, flush 2, or to disable the flush. Push ENTER to save.

PRIME PUMP

This selection allows you to prime the chemical pumps. Press ▲/▼ to select pump number you want to prime and push enter to begin priming. Push ENTER again to stop priming pump.

If you have a flush manifold with flush option selected, flushing the manifold option will appear. Use ◀/▶ to select Yes/No to flush. Hit ENTER to begin flush or exit.

NOTE: Flushing after pump prime will only work if the pump has a flush assigned.

PRIME FLUSH

This selection allows you to prime the flush manifolds. Press ▲/▼ to select manifold you want to prime and push enter to begin priming. Push ENTER again to stop priming the flush manifold.

CALIBRATE

Use ▲/▼ buttons to move cursor to calibrate and push ENTER. Use ▲/▼ buttons to select pump to calibrate and push ENTER to go into calibrate menu. When ready, push ENTER again to begin to calibrate. Push ENTER again to stop calibration. Input the volume calibrated by using ▲/▼ to change the number and ◀/▶ to move the cursor.

A flow rate will be calculated from the time and volume calibrated. If you are in flow meter mode, MLP (milliliter per pulse) will be calculated.

NOTE (1): The pump must be calibrated prior to selecting flow meter mode.

NOTE (2): Calibrating in ml is more precise and the larger the volume calibrated, the more accurate measurement your calibration will be.

FLOW-METER TESTING

Use ▲/▼ buttons to move cursor to flow meter testing and push ENTER. Use ▲/▼ buttons to select pump to test and push ENTER. The pump will begin running and will show the detected flow pulses on the display. This reading confirms that chemical is flowing and calibration is accurate. Push ENTER again to stop testing.

NOTE: If the reading shows a zero, this indicates that there is no flow through the flow meter. Should this occur, check to see if there is a problem with the pump squeeze tube, or if the chemical container is empty.

FORMULA SETUP

Use ▲/▼ buttons to move cursor to formula setup and push ENTER to open formula setup options. Use ▲/▼ buttons again to move cursor through formula setup options and press ENTER to edit that option.

EDIT FORMULA NAME

Use ▲/▼ buttons to change letter/number of formula name. Use ◀/▶ to move the cursor to next letter/number to change. Push ENTER to save.

FORMULA NUMBER

Use ▲/▼ buttons to change formula number being edited. Use ◀/▶ to move the cursor to next number to change. Push ENTER to select the formula number to edit.

FORMULA ENABLE/DISABLE

Use ◀/▶ to move the cursor to select enable or disable the formula. Push ENTER to save.

NOTE (1): Disable is the default status.

NOTE (2): A formula that is disabled cannot be selected at the dispenser keypad, however a disabled formula can be selected if using Auto Formula Select.

WEIGHT 0 LB

Use ▲/▼ buttons to change number of formula weight. Use ◀/▶ to move the cursor to next number to change. Push ENTER to save.

FORMULA SETTINGS

Use ▲/▼ buttons to move cursor to formula settings and push ENTER to open formula settings menu options. Use ▲/▼ buttons again to move cursor through formula settings options and press ENTER to edit that option.

FORMULA

Use ▲/▼ buttons to change number of formula number that you want to edit the properties. Use ◀/▶ to move cursor to next number to change. Push ENTER to input formula number to edit.

PUMP

Use ▲/▼ buttons to change the number of the pump being edited. Push ENTER to select pump number to edit.

LEVEL

Use ▲/▼ buttons to change number of the number of levels. Push ENTER to input pump number.

NOTE: This selection allows you to choose if you wish to use multiple pump level programming. Pump levels allow the pumps to dispense up to 4 individual dosage amounts within the same formula.

DELAY TIME

Use ▲/▼ buttons to change number of delay time. Use ◀/▶ to move cursor to next number to change. Push ENTER to input delay time.

NOTE: Delay times are not applicable for multi washer applications.

VOLUME

Use ▲/▼ buttons to change number of volume. Use ◀/▶ to move cursor to next number to change. Push ENTER to input formula volume.

TEST VOLUME

This function allows you to test the programmed volume to ensure the accuracy of the calibrated flow rate for this pump. Use a container with volume markings such as a beaker or measuring cup to dispense the programmed volume into.

Push ENTER to begin testing volume.

NOTE: If a flow-meter is used for this pump and does not register flow during the test process, then you will see an error message on the display screen.

LAST DRAIN COUNT

NOTE: You will only see this display if using drain mode.

This selection allows you to change the drain counts. Use ▲/▼ buttons to change number of drains. Push ENTER to input last drain count. There is a maximum of 17 drain counts.

DRAIN ASSIGNMENTS

Push ENTER to begin the drain assignment menu options. Use ▲/▼ buttons to move cursor to pump unused and push ENTER. Use ▲/▼ buttons to assign pump number and push ENTER to save.

NOTE: There are a maximum of 4 pump assignments per drain count assignment.

**DRAIN COUNT 1
PUMP UNUSED**

Use ▲/▼ buttons to move cursor to pump unused and push ENTER. Use ▲/▼ buttons to assign pump number and push ENTER to save.

SIGNAL SETTINGS

Use ▲/▼ buttons to move cursor to signal settings and push ENTER to open signal settings menu options. Use ▲/▼ buttons again to move cursor through formula settings options and press ENTER to edit that option.

AFS DISABLE/ENABLE

Use ▲/▼ buttons to move cursor to disable/enable Auto Formula Select and push ENTER to edit. Use ◀/▶ buttons select disable or enable and press ENTER to save.

SIB ASSIGNMENTS

NOTE: You will only see this display if using Assigned Signal Mode or Assigned Step Mode. This feature allows you to assign a pump number input on the SIB to multiple chemical pumps which can be useful if the washer has limited trigger signals.

Press ENTER to change SIB assignments and you will see the following display.

SIGNAL PUMP UNUSED

Use ◀/▶ buttons to select the signal number, then use ▲/▼ to move the cursor to the pump selections. Use ◀/▶ to select a pump number, then ▲/▼ to select other pumps from the list. Push ENTER to save.

SIGNAL LOCKOUT TIME

Use ▲/▼ buttons to move cursor to signal lockout time and push ENTER to edit. Use ▲/▼ buttons change lockout time between 0 and 99 minutes and push ENTER to save.

NOTE: This selection sets the time (in minutes) that signal lockout will prevent a pump from triggering by an incoming supply signal. If a signal is received during the lockout time, then the countdown will reset and the lockout period will start over again for the entire set time.

This setting applies to all pumps except the load count pump as the load count pump halts any active lockout.

SYSTEM LOCKOUT TIME

Use ▲/▼ buttons to move cursor to system lockout time and push ENTER to edit. Use ▲/▼ buttons change time and push ENTER to save.

NOTE: This selection sets the time (in minutes) that the system will be "locked-out" to all incoming supply signals. The lock-out time is started by a signal to the load count pump.

QUALIFY TIME

Use ▲/▼ buttons to move cursor to qualify time and push ENTER to edit. Use ▲/▼ buttons to change the length of qualify time and push ENTER to save.

NOTE: This selection sets the time (in seconds) that the supply signals must be energized for them to be recognized to activate chemical feed. If the supply signal duration is not long enough to meet (or exceed) qualify time, then the corresponding pump will not be activated. If you ensure that your supply signals are always longer than the qualify time, then you will not have any missed injections due to short length signals.

AFS MODE

NOTE: You will only see this display if Auto Formula Select is enabled.

Use ▲/▼ buttons to move cursor to AFS mode and push ENTER to edit. Use ◀/▶ buttons select micro or chart and push ENTER to save.

MICRO: For use with microprocessor controlled washers that can send a signal of exact duration to the unit. The controller interprets the duration of the signal as the formula number requested, based on the AFS TIME setting explained in the next menu selection.

CHART: For use with card-reader type machines. Uses a combination of signals to pick the formula in a “binary” numbering format.

AFS TIME

NOTE: You will only see this display if Auto Formula Select is enabled.

Use ▲/▼ buttons to move cursor to AFS time and push ENTER to edit. Use ▲/▼ buttons to edit AFS time and push ENTER to save.

This selection is used with AFS micro mode to establish a time “increment” for selecting formulas. The signal duration will be divided by the number selected to choose the formula. The available signal time increments (in seconds) are 1—5.

Example: If AFS signal time is set for 2, a 20 second signal from the washer would choose formula 10 on the dispenser.

AFS CALIBRATION

NOTE: You will only see this display if AFS is enabled.

This feature allows you to calibrate the AFS (Auto Formula Select) signal so that the On-Premise Elite can recognize a signal for a duration that matches the washer. This will increase the accuracy of having the correct formula selected for each washcycle.

- (1) Use ▲/▼ buttons to move cursor to AFS calibration and push ENTER. Push ENTER again to begin AFS calibration. The display will then show that the system is waiting for the AFS signal from the washer.
- (2) At this point, you will need to activate the washer's AFS signal. It is recommended to calibrate the AFS with a signal that will pick the highest formula number that will be used. The display will then show that the system is recognizing a live signal and will begin to clock the duration.
- (3) The washer signal should then turn off when it has been on for long enough to select the highest formula number that will be used. Once the AFS signal turns off, push ENTER again and the display will prompt you to input the formula number that the washer was selecting.
- (4) Use ▲/▼ buttons to input the formula number, then press ENTER to save.

FORMULA RESET

If enabled, this feature resets the formula number to 00 after the load count pump activates. In cases where automatic formula select is OFF (formulas selected manually), this feature ensures that an operator cannot wash a load with the wrong formula. When a washcycle is finished, the next formula must be manually chosen.

Use ▲/▼ buttons to move cursor to formula reset and push ENTER to edit. Use ◀/▶ buttons select reset and press ENTER to save.

FLUSH SETTINGS

Use the ▲/▼ buttons to move cursor to flush settings and push ENTER to open flush settings menu options. Use the ▲/▼ buttons again to move cursor through flush settings options and press ENTER to edit that option.

FLUSH MODE WITH

Use the ▲/▼ buttons to move cursor to the flush mode setting and push ENTER to edit. Use the ▲/▼ buttons to choose flushing WITH or AFTER the pump operation and push ENTER to save.

If you chose “with”, the flush will activate simultaneously during the operation of any pump(s). When the pumps finish running, the flush will remain active and begin counting down its own programmed run time.

If you chose “after”, the flush will not activate until the pumps finish running, then the flush will then begin counting down its own programmed run time.

FLUSH 1 TIME

This sets the time the flush 1 solenoid will operate after the pumps have completed their volumes (pumps that have flush 1 assigned). Use the ▲/▼ buttons to move cursor to flush 1 time and push ENTER to edit. Use the ▲/▼ buttons to change time and push ENTER to save.

ERROR 1 DELAY

This menu selection allows you to set the amount of time that flush 1 flow sensor switch can “break” contact before giving a flush error. Use the ▲/▼ buttons to move cursor to error 1 delay and push ENTER to edit. Use the ▲/▼ buttons to change time and push ENTER to save.

FLUSH 2 TIME

This sets the time the flush 2 solenoid will operate after the pumps have completed their volumes (pumps that have flush 2 assigned). Use the ▲/▼ buttons to move cursor to flush 2 time and push ENTER to edit. Use the ▲/▼ buttons to change time and push ENTER to save.

ERROR 2 DELAY

This menu selection allows you to set the amount of time that flush 2 flow sensor switch can “break” contact before giving a flush error. Use the ▲/▼ buttons to move cursor to error 2 delay and push ENTER to edit. Use the ▲/▼ buttons to change time and push ENTER to save.

SOIL MODE SETTINGS

NOTE: You will only see Soil Mode Settings in the Main Setting menu when you choose soil mode operation, which is located in system settings.

Use ▲/▼ buttons to move cursor to soil mode settings and push ENTER to open soil mode settings menu options. Use ▲/▼ buttons again to move cursor through soil mode settings options and press ENTER to edit that option.

SOFTNER DEFAULT

NOTE: You will only see this display if using Soil Mode.

This selection shows the default status of the softener pump. If set to “enabled”, the softener pump will pump chemical unless manually overridden with the button on the keypad. If “disabled”, the softener pump will not pump chemical unless manually overridden.

Use ◀/▶ buttons to select on or off softner default and push ENTER to save.

BLEACH DEFAULT

NOTE: You will only see this display if using Soil Mode.

This selection shows the default status of the bleach pump. If set to “enabled”, the bleach pump will pump chemical unless manually overridden with the button on the keypad. If “disabled”, the bleach pump will not pump chemical unless manually overridden.

Use ◀/▶ buttons to select on or off bleach default and push ENTER to save.

SOFTNER PUMP

NOTE: You will only see this display if using Soil Mode.

This selection shows which pump number you will be using as your softener pump. Use the ▲/▼ buttons to set the softener pump number, then press ENTER.

BLEACH PUMP

NOTE: You will only see this display if using Soil Mode.

This selection shows which pump number you will be using as your bleach pump. Use the ▲/▼ buttons to set the bleach pump number, then press ENTER.

TIME SETTINGS

Use ▲/▼ buttons to move cursor to time/date settings and push ENTER to get menu options. You will set your current time/date and shift times.

SET TIME/DATE

Use ▲/▼ buttons to move cursor to set time/day and push ENTER to get time/day menu options. Use ▲/▼ buttons to move cursor to Month or Day or Year or Time and push ENTER. Use ▲/▼ and ◀/▶ to edit, push ENTER to save.

SHIFT TIMES

Use ▲/▼ buttons to move cursor to set shift times and push ENTER to get shift times menu options. Use ▲/▼ and ◀/▶ to edit and push ENTER to save. There are maximum of 3 shift times.

FILE SETTINGS

Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.

The file settings are the menu options that allow you to transfer and communicate with the USB. You can save your program set up to USB, load USB settings, clear load count, or update firmware from this menu.

SAVE SETTINGS TO USB

Use ▲/▼ buttons to move cursor to save setting to USB and push ENTER to save settings to USB flash drive.

NOTE: A USB flash drive must be connected to the USB port in front of the main housing. Without the USB flash drive connected, the screen will display USB Not Detected. If a USB flash drive is connected, once the OP Elite settings are saved onto the USB flash drive, the screen will display the Settings have been saved.

The save settings to USB allows a user to save settings to a USB flash drive and transfer to another unit or to use to transfer to the PC software and edit.

LOAD USB SETTINGS

Use ▲/▼ buttons to move cursor to load USB settings and push ENTER. Use ◀/▶ to select yes or no and push ENTER.

NOTE: A USB flash drive must be connected to the USB port in front of the main housing. Without the USB flash drive connected, the screen will display USB Not Detected. If a USB flash drive is connected, once the USB settings are saved onto the OP Elite, the screen will display the Settings have been saved.

Load USB settings allows a you to transfer settings from the PC software to the OP Elite or to transfer settings from another unit.

The USB flash drive must have the file "OPE-XX.set" where XX is the Dispenser ID of the system. If not, the system will display a USB Not Detected Error.

SAVE REPORT TO USB

Use ▲/▼ buttons to move cursor to save report data to USB and push ENTER. Use ◀/▶ to select yes or no and push ENTER.

NOTE: A USB flash drive must be connected to the USB port in front of the main housing. Without a USB flash drive connected, the screen will display USB Not Detected. If USB is connected, once the report data has been saved, the screen will display that the report has been saved.

Save report to USB allows a you to transfer report data to the PC software.

CLEAR REPORT DATA

This function clears report data from the system. Only the report data is cleared and none of the system settings are affected by this. Push ENTER to clear report data.

CLEAR LOAD COUNT

This function clears the load counter only and does not affect any of the system operating functions. Push ENTER to clear the load counter.

UPDATE FIRMWARE

This function allows you to update the firmware of the system. Contact Knight for details on the latest version of firmware available.

DIAGNOSTICS

Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.

The diagnostics allow you test to see if your dispenser is receiving signals from the washer.

NOTE: Make sure to turn on the Dispenser Hold function to prevent the system from dosing chemical while you are performing the diagnostic functions.

CHANGE TO BASIC MODE

Use ▲/▼ to move the cursor through the options and press ENTER to enter flush settings menu.

Change to basic mode eliminates the extra the menus and programming options offered in the OP Elite to allow for easier use when using the OP Elite for basic On Premise operation only.

NOTE: If you have items programmed in an advanced mode and switch to basic mode, the basic mode will NOT keep the advance mode programs for the programming features it does have. The other programmed options will be eliminated or defaulted.

ON-PREMISE ELITE PC SOFTWARE

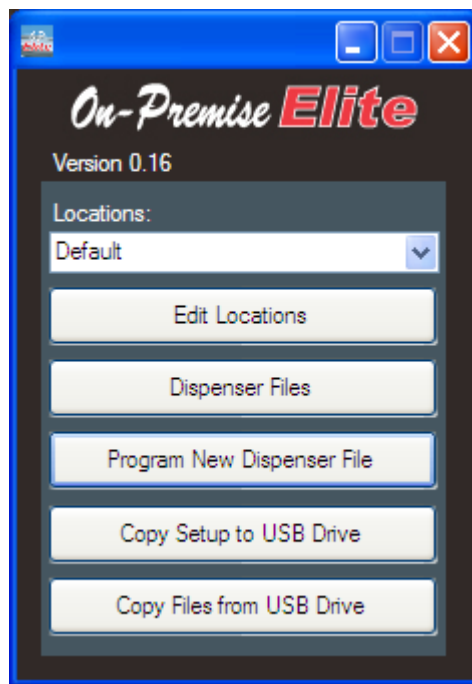
The On-Premise PC software allows you to use your computer to program setup files for your dispensers and also has functions to generate reports for tracking chemical usage. While the dispenser has the capability to be programmed from its keypad, programming via computer is a faster and easier way to get the dispenser setup for operation.

Installation

- (1) Insert a USB flash drive into USB port on your desktop or laptop pc.
- (2) Locate the file named "OP ELITE.MSI".
- (3) Double click the OP ELITE.MSI file and follow the install program prompts.

Running the software

- (1) Following successful installation of the PC software locate the On-Premise Elite desktop icon and double click to open the program.
- (2) The start screen below will appear after a few seconds.
- (3) You can now click any of the buttons on the start screen to begin the function you wish to perform.



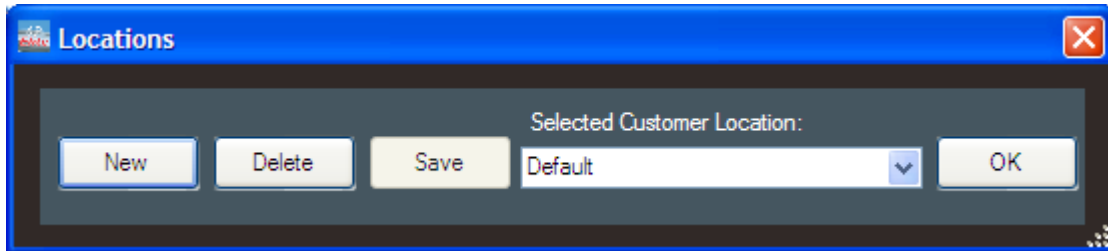
Button function definitions

- Edit locations — create, change, or delete specific customer locations.
- Dispenser files — allows you to view and manage setup files, report files, and Excel workbook files.
- Program new dispenser file — this is the function to use for creating a new "setup" file for any dispenser.
- Copy setup to USB drive — click this button to copy setup files onto a USB flash drive for loading into a dispenser.
- Copy files from USB drive—click this button to copy report files that have been saved onto a USB flash drive from a dispenser.

LOCATIONS

Each installation should be setup with a specific customer location to organize dispenser files and reports more effectively. A new location setting creates its own file folder on your computer by allowing you to enter a descriptive name for the location.

Multiple dispenser locations can be setup and saved based on user preference. For laptop users, setup files can be selected from the Locations box when going from one account to another. Changing locations will change the number and type of files that are unique to each location.



Creating a new location

- (1) From the main programming screen, click on Edit Locations and you will see the screen above.
- (2) Click New, then type the name you wish to give the account and click OK.
- (3) When finished, click Save to store the new location.

Changing locations

- (1) From the screen shown above, click the down arrow from the Selected Customer Location and choose the location you want from the drop-down menu.
- (2) After you have selected the customer location you want, then click OK.

Deleting a location

- (1) Click on the desired choice from the Selected Customer Location, then click delete.
- (2) Click OK and the Customer Location you chose will be deleted from the list.

PROGRAMMING A SETUP FILE

This is the view you will see when you click the Create Program File button. Before you start entering the data you will want to compile a complete list of all of the washers, dispensers, formulas, and chemicals.

Global Settings

The screenshot shows the 'Program System' window with the 'Global Settings' tab selected. The sidebar on the left lists various settings categories including Formula Assignments, Washer settings (W1-W4), Formula settings (F1-F24), and Pump settings. The main configuration area is divided into several sections:

- Language:** English (dropdown)
- Units:** U.S. (selected), Metric
- Formula Scaling:** Enabled (selected), Disabled
- Number of Washers:** 4 (dropdown)
- Dispenser ID:** 1 (input)
- Main Access Code:** 0 (input)
- User Access Code:** 0 (input)
- Number of Pumps:** 8 (dropdown)
- Mode:** Advanced (selected), Basic
- Bleach Pump:** 4 (input)
- Softener Pump:** 6 (input)
- User Settings:**
 - Prime: Enabled (selected), Disabled
 - Reports: Enabled (selected), Disabled
 - Load Weight: Enabled (selected), Disabled
- Shift Times:**
 - Shift 1: 07:59 (input)
 - Shift 2: 15:59 (input)
 - Shift 3: 23:59 (input)
- Load Count Pump:** 6 (input)
- Pump Settings (Pumps 1-10):** Each pump configuration includes Name, Flow-Meter, Time, Cost (0.00), Speed (100), and Flush options (Flush 1, Flush 2, No Flush).

- Language:
- Units:
- Formula Scaling:
- Number of Washers:
- Dispenser ID:
- Main Access Code:
- User Access Code:
- Number of Pumps:
- Mode:
- Bleach Pump:
- Softener Pump:
- User Settings:
- Shift Times:
- Load Count Pump:
- Pump Settings:

Formula Assignments

The screenshot shows a software window titled 'Program System' with a 'Save Setup' button. The main area is titled 'On-Premise Elite' and 'KNIGHT'. A left-hand navigation tree is visible, with 'Formula Assignments' selected. The main content area displays a table with the following data:

#	Formula Name	Washer1 Formula #	Washer2 Formula #	Washer3 Formula #	Washer4 Formula #
1	Formula 1	1	1	1	1
2	Formula 2	2	2	2	2
3	Formula 3	3	3	3	3
4	Formula 4	4	4	4	4
5	Formula 5	5	5	5	5
6	Formula 6	6	6	6	6
7	Formula 7	7	7	7	7
8	Formula 8	8	8	8	8
9	Formula 9	9	9	9	9
10	Formula 10	10	10	10	10
11	Formula 11	11	11	11	11
12	Formula 12	12	12	12	12
13	Formula 13	13	13	13	13
14	Formula 14	14	14	14	14
15	Formula 15	15	15	15	15
16	Formula 16	16	16	16	16
17	Formula 17	17	17	17	17
18	Formula 18	18	18	18	18
19	Formula 19	19	19	19	19
20	Formula 20	20	20	20	20
21	Formula 21	21	21	21	21
22	Formula 22	22	22	22	22
23	Formula 23	23	23	23	23
24	Formula 24	24	24	24	24
25	Formula 25	25	25	25	25
26	Formula 26	26	26	26	26

Each washer can have its own unique formula numbers for the default formula numbers.

- Formula Name:
- Washer:

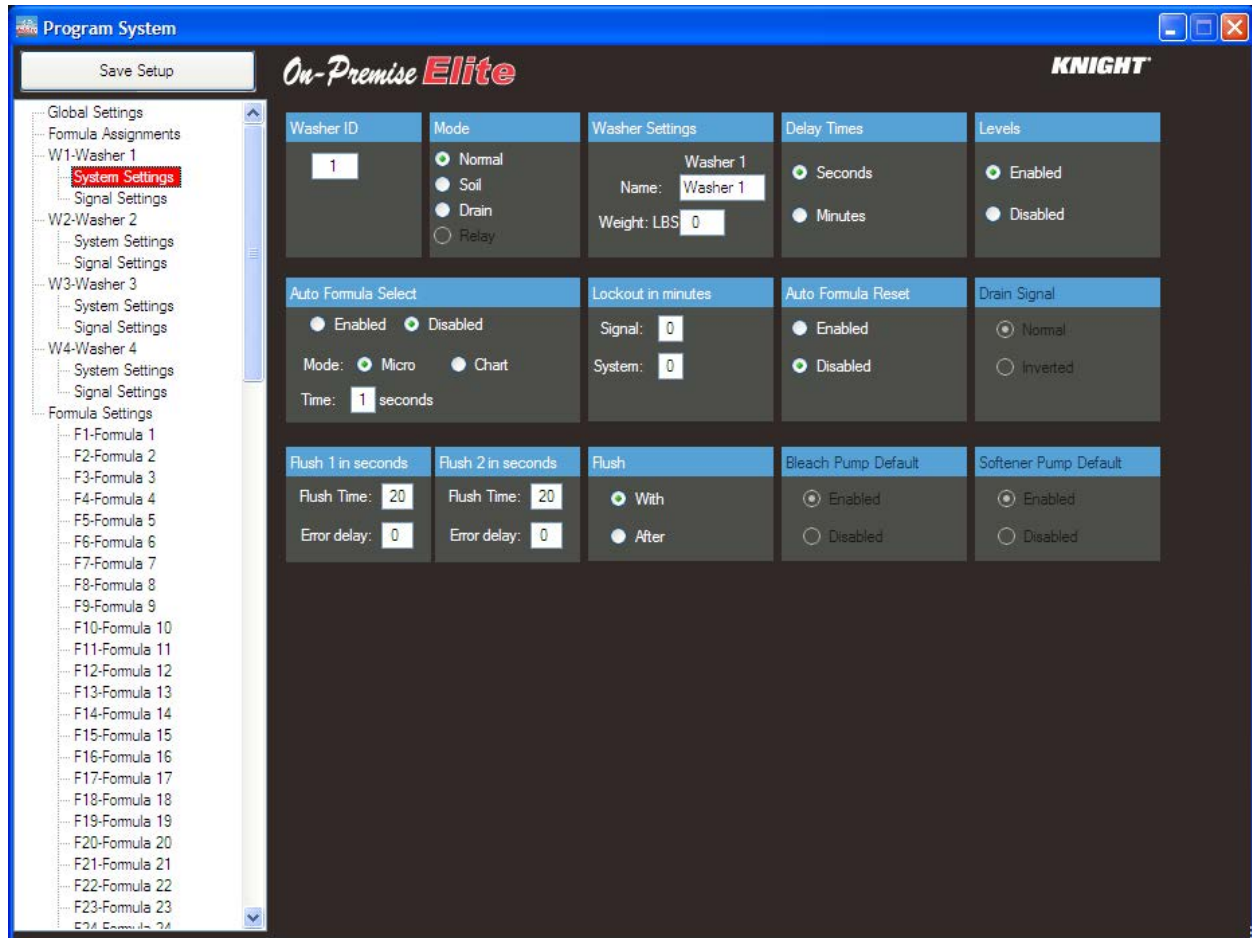
Formula Settings

The screenshot shows the 'Program System' window for 'On-Premise Elite' by KNIGHT. The left sidebar contains a tree view with 'Formula Settings' expanded to 'F1-Formula 1'. The main area features a 'Save Setup' button and a 'Formula 1' configuration section. This section includes a 'Formula Name' field (containing 'Formula 1') and a 'Formula Weight LBS' field (set to 0). Below this are four checkboxes for 'Washer 1' through 'Washer 4', all of which are checked and labeled 'Enabled'. The main area is divided into ten pump configuration panels, labeled 'Pump 1' through 'Pump 10'. Each panel contains a table with two columns: 'Volume in ozs' and 'Delay in sec.'. Each table has four rows, labeled 'Level 1' through 'Level 4'. In the screenshot, all 'Volume in ozs' and 'Delay in sec.' fields are set to 0.0 and 0, respectively.

Each formula can be programmed for specific chemical dosage and also which washer(s) will be allowed to use a specific formula.

- Formula Name:
- Washer Formula Weight:
- Formula Enable:
- Pump Volumes & Delay Times:

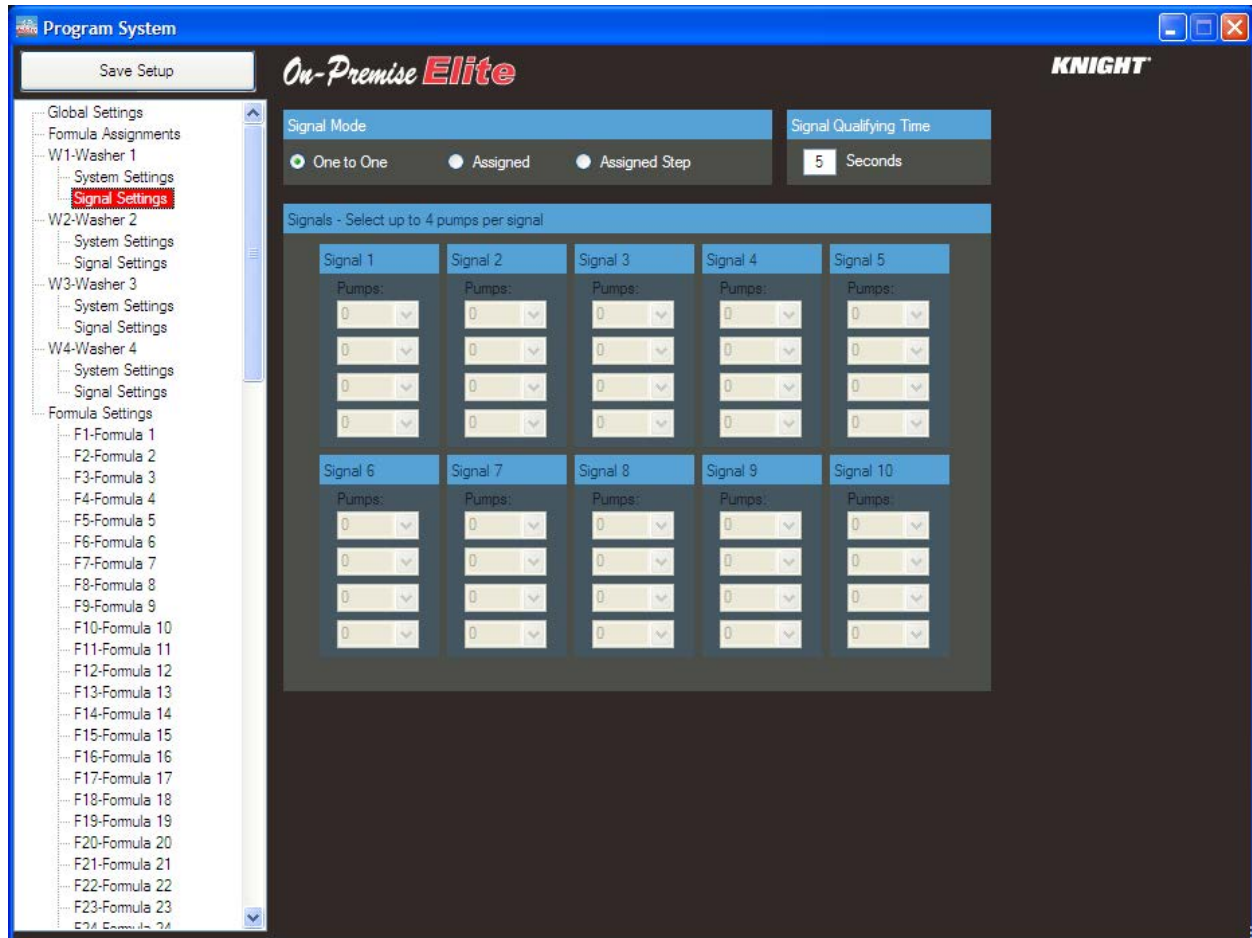
System Settings



Each washer can be setup with specific features and functions.

- Washer ID:
- Mode:
- Washer Settings:
- Delay Time Units:
- Levels:
- Auto Formula Select:
- Lockout Time:
- Auto Formula Reset:
- Drain Signal:
- Flush 1 in Seconds:
- Flush 2 in Seconds:
- Flush Mode:
- Bleach Pump Default:
- Softener Pump Default:

Signal Settings

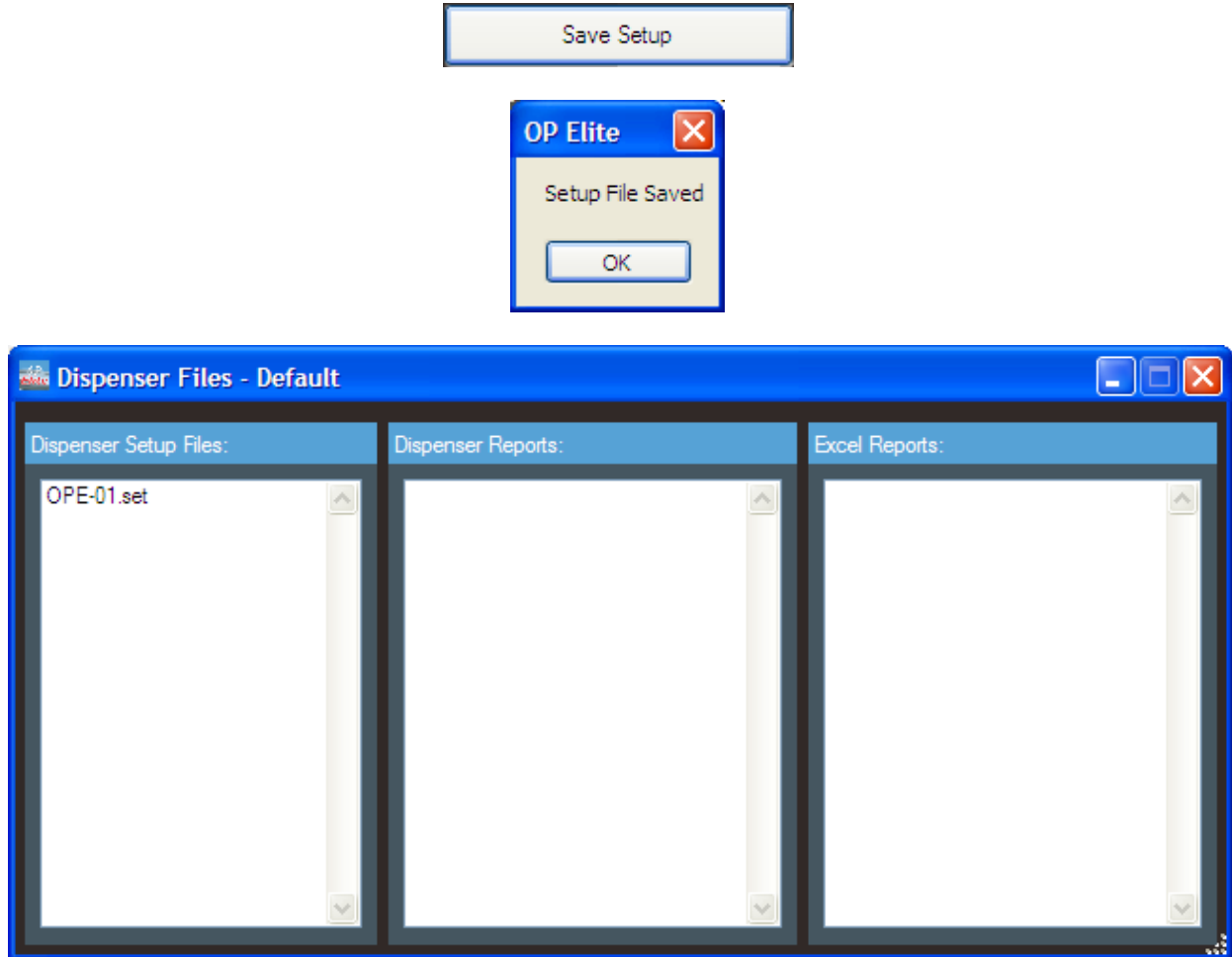


Each washer can be setup for how it will utilize trigger signals.

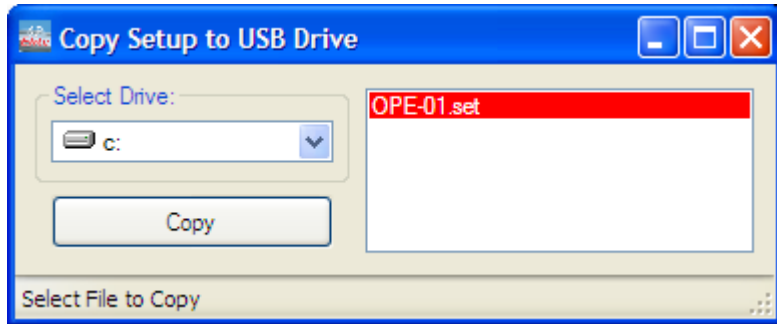
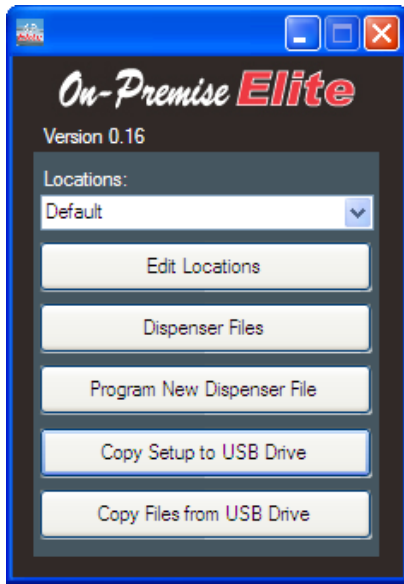
- Signal Mode:
- Signal Qualifying Time:
- Signal Pump Assignments:

SAVING SETUP DATA

After all fields have been programmed and all data appears correct click on the Save Setup button. The setup file will now appear in the Dispenser Files view where it can be selected then uploaded to the system to start operation.



Setup Files are saved in a .set format. The system will use the dispenser ID number to name the setup file followed by the suffix. "set" at the end of the name. To upload a setup file to an On-Premise Elite go to the opening screen view and select "Copy Setup to a USB Drive". Highlight the file to be saved to the USB flash drive, place it in the USB port and click the Copy button. Make sure the USB flash drive flashes for second or two while it saves then you are ready to remove the drive from your pc and place it in the On-Premise Elite for USB port uploading.

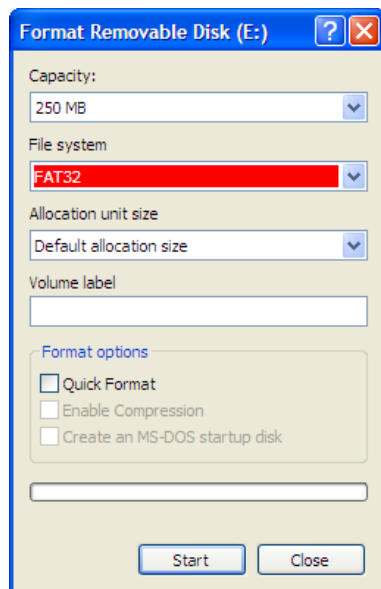


Select the USB flash drive in the Select Drive pull-down. Select the file to copy then click on the Copy button. Repeat for any other setup files.

After setup files have been uploaded from the USB drive access the programming menus on the system and check that your settings have transferred properly. Once the settings are in place proceed to calibrating the pumps before starting operation.

Downloading/Viewing Reports

Check that the USB drive you will use is properly formatted for use with this system. If the drive is not properly formatted you cannot save report files from the system or properly upload settings. The following procedure will help you do that:

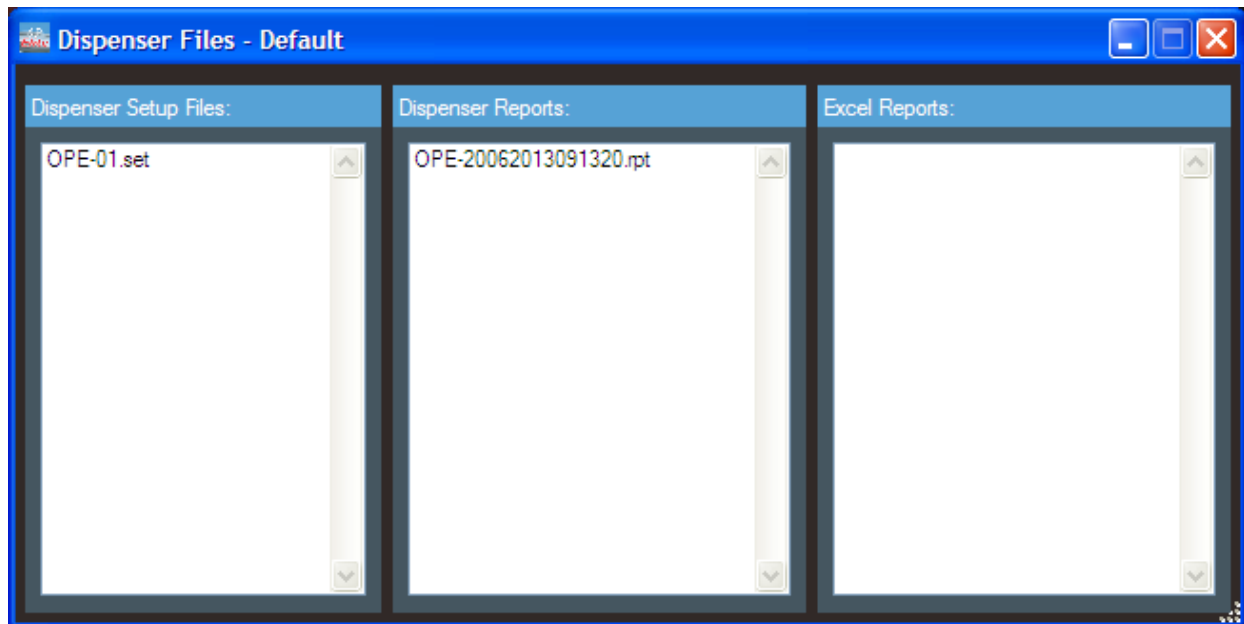
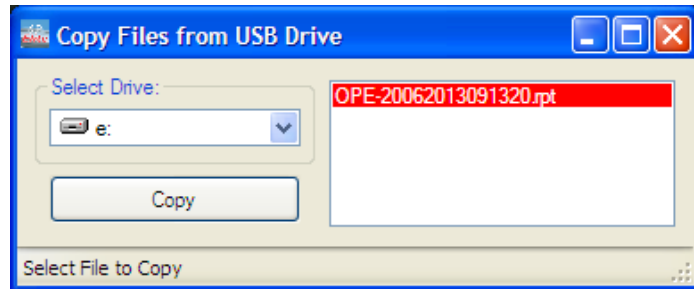
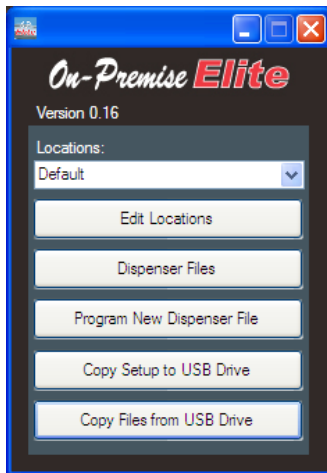


Load drive into pc USB port

- a. Go to My Computer
- b. Right click USB drive
- c. Check File System setting for FAT32
- d. If it's FAT (default) click down arrow and select FAT32
- e. Click Start to reformat
- f. Remove USB flash drive
- g. Ready for use

DOWNLOADING REPORTS FOR VIEWING/MANAGING

- (1) Follow the procedures in this manual for instructions on downloading reports to a USB drive.
- (2) Insert the USB flash drive with the reports file in the USB port of your PC.
- (3) Go to opening screen and select the Copy Files from USB Drive button.
- (4) Select the USB flash drive using the select drive pull-down.
- (5) Report files have the date/time the report was created as the file name with the suffix “rpt”.
- (6) Highlight the report name desired and click Copy.
- (7) Close the Copy Files from USB Drive view.
- (8) The report is now available for viewing under the Dispenser Files view (below).
- (9) Locate the desired report file in the Dispenser Reports directory then double click to open the report for viewing.



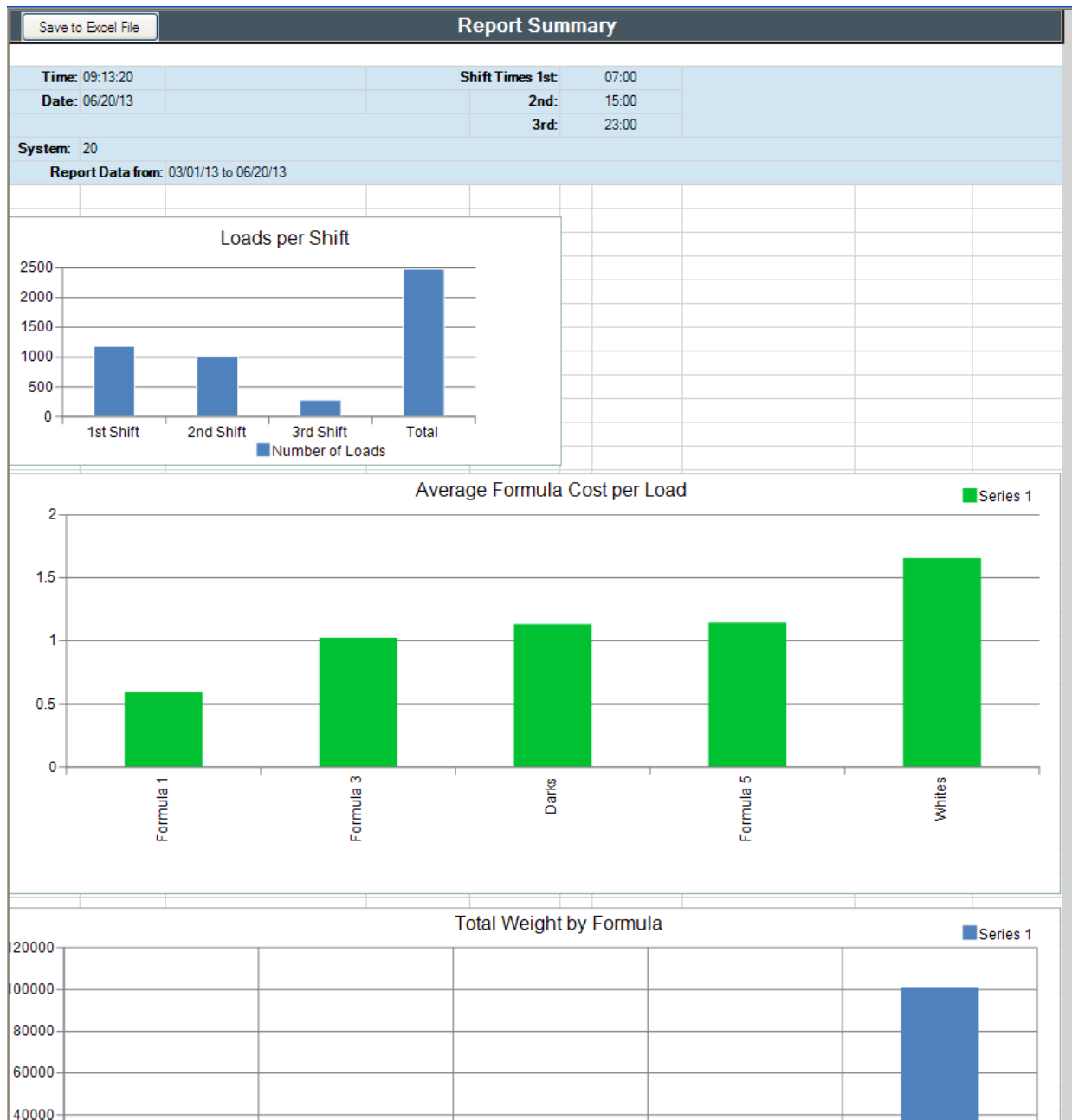
Setup Report

The complete setup report contains the entire settings record for operation of the system

Formula Volume Settings (OZS)														
Time: 09:13:20		Shift Times 1st:			07:00									
Date: 06/20/13		2nd:			15:00									
		3rd:			23:00									
System: 20														
Report Data from: 03/01/13 to 06/20/13														
#	Formula Name	Washer1 Formula #	Washer2 Formula #	Washer3 Formula #	Washer4 Formula #	Level	Detergent		Alkali		Destainer		SourSoft	
							Volume	Delay	Volume	Delay	Volume	Delay	Volume	Delay
3	Formula 3	3	3	3	3	1	4.5	0	2.5	0	0.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
4	Darks	4	4	4	4	1	4.5	0	2.5	0	0.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
5	Formula 5	5	5	5	5	1	6.0	0	3.0	0	4.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
6	Whites	6	6	6	6	1	6.0	0	3.0	0	4.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0

Summary Reports

This report provides “easy to consume” data on wash cycles run, chemical usage and washer productivity.



Cycle report

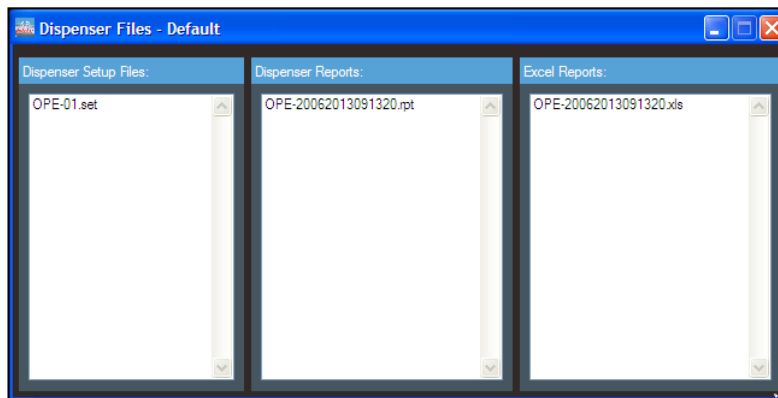
This is the most important report in terms of managing chemical usage, cleaning quality, and operation of the dispensers.

Wash Cycle Tracking (Ozs)													
Save to Excel File													
Time: 09:13:20		Shift Times 1st:		07:00									
Date: 06/20/13		2nd:		15:00									
		3rd:		23:00									
System: 20													
Report Data from: 03/01/13 to 06/20/13													
Start Date	Start Time	End Date	End Time	System ID	Washer ID	Formula	Cycle Time	Load Weight	Detergent	Alkali	Destainer	SourSoft	
03/01/13	02:25:16	03/01/13	02:47:35	10	4	4	00:22:19	60 Lbs	4.5	2.5	0.0	1.5	
03/01/13	03:49:23	03/01/13	03:49:29	10	2	4	00:00:06	60 Lbs	0.0	0.0	0.0	1.5	
03/01/13	04:01:10	03/01/13	04:01:16	10	1	6	00:00:06	60 Lbs	0.0	0.0	0.0	1.5	
03/01/13	06:240:14	03/01/13	07:14:37	10	1	6	00:30:22	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	06:243:231	03/01/13	07:16:11	10	2	6	00:30:24	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	07:250:26	03/01/13	08:24:47	10	1	6	00:30:20	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	07:252:217	03/01/13	08:25:09	10	2	6	00:30:11	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	07:254:247	03/01/13	08:27:24	10	4	6	00:30:26	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	18:26:229	03/01/13	18:57:09	10	1	6	00:30:24	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	18:226:17	03/01/13	19:00:45	10	2	6	00:30:28	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	18:228:248	03/01/13	19:01:24	10	4	5	00:30:28	60 Lbs	4.5	2.5	0.0	1.5	
03/01/13	19:29:17	03/01/13	19:59:43	10	1	6	00:30:26	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	19:230:32	03/01/13	20:04:58	10	2	6	00:30:26	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	19:232:24	03/01/13	20:06:54	10	4	6	00:30:30	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	20:235:19	03/01/13	21:09:47	10	2	5	00:30:28	60 Lbs	4.5	2.5	0.0	1.5	
03/01/13	20:244:10	03/01/13	21:18:37	10	4	6	00:30:27	60 Lbs	6.0	3.0	4.0	1.5	
03/01/13	20:247:07	03/01/13	21:21:28	10	1	5	00:30:21	60 Lbs	4.5	2.5	0.0	1.5	
03/01/13	233:238:234	03/02/13	00:19:13	10	1	4	00:22:25	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	00:02:237	03/02/13	00:33:09	10	4	6	00:30:31	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	00:07:245	03/02/13	00:38:20	10	2	6	00:30:28	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	01:29:05	03/02/13	01:59:36	10	2	5	00:30:30	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	01:228:13	03/02/13	02:02:38	10	1	6	00:30:24	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	03:28:05	03/02/13	03:58:25	10	1	6	00:30:20	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	04:07:30	03/02/13	04:29:56	10	2	4	00:22:26	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	04:22:251	03/02/13	04:53:22	10	4	6	00:30:33	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	05:10:237	03/02/13	05:41:12	10	1	6	00:30:28	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	05:34:222	03/02/13	05:57:00	10	2	3	00:22:26	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	05:229:08	03/02/13	06:03:36	10	4	6	00:30:28	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	06:25:231	03/02/13	06:48:11	10	2	4	00:22:24	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	06:28:13	03/02/13	06:51:13	10	1	4	00:22:59	60 Lbs	4.5	2.5	0.0	1.5	
03/02/13	20:19:235	03/02/13	20:50:08	10	4	6	00:30:30	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	20:23:21	03/02/13	20:53:49	10	2	6	00:30:28	60 Lbs	6.0	3.0	4.0	1.5	
03/02/13	20:26:236	03/02/13	20:57:03	10	1	6	00:30:36	60 Lbs	6.0	3.0	4.0	1.5	
03/04/13	23:13:32	03/04/13	23:13:38	10	1	4	00:00:06	60 Lbs	0.0	0.0	0.0	1.5	
03/04/13	23:14:51	03/04/13	23:14:57	10	2	6	00:00:06	60 Lbs	0.0	0.0	0.0	1.5	
03/04/13	23:15:48	03/04/13	23:15:54	10	4	5	00:00:06	60 Lbs	0.0	0.0	0.0	1.5	
03/04/13	233:229:19	03/05/13	00:06:45	10	1	6	00:27:25	60 Lbs	8.0	3.0	8.0	1.9	
03/04/13	233:253:00	03/05/13	00:26:22	10	2	6	00:30:22	60 Lbs	0.0	0.0	0.0	1.6	

Formula Volume Settings (OZS)														
Time: 09:13:20		Shift Times 1st:			07:00									
Date: 03/20/13		2nd:			15:00									
		3rd:			23:00									
System: 20														
Report Data from: 03/01/13 to 06/20/13														
#	Formula Name	Washer1 Formula #	Washer2 Formula #	Washer3 Formula #	Washer4 Formula #	Level	Detergent		Alkali		Destainer		SourSoft	
							Volume	Delay	Volume	Delay	Volume	Delay	Volume	Delay
3	Formula 3	3	3	3	3	1	4.5	0	2.5	0	0.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
4	Darks	4	4	4	4	1	4.5	0	2.5	0	0.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
5	Formula 5	5	5	5	5	1	6.0	0	3.0	0	4.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0
6	Whites	6	6	6	6	1	6.0	0	3.0	0	4.0	0	1.5	0
						2	0.0	0	0.0	0	0.0	0	0.0	0
						3	0.0	0	0.0	0	0.0	0	0.0	0
						4	0.0	0	0.0	0	0.0	0	0.0	0

Exporting to Excel format

Anytime an On-Premise Elite report is open for viewing you can choose to save the file in an Excel format by simply clicking on the "Save to Excel File" button located in the upper left of the report viewer. The Excel version of the report appears in the System Files directory in the column marked Excel Reports. Provided you have Excel 2007 or newer you can then email these files, merge them with older records or manipulate the data in a way that suits your needs.



DISCLAIMER

Knight LLC does not accept responsibility for the mishandling, misuse, or non-performance of the described items when used for purposes other than those specified in the instructions. For hazardous materials information consult label, MSDS, or Knight LLC. Knight products are not for use in potentially explosive environments. Any use of our equipment in such an environment is at the risk of the user, Knight does not accept any liability in such circumstances.

WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE year. All electronic control boards have a TWO year warranty. Warranty applies only to the replacement or repair of such parts when returned to factory with a Knight Return Authorization (KRA) number, freight prepaid, and found to be defective upon factory authorized inspection. Bearings and pump seals or rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing, and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

FOOTNOTE

The information and specifications included in this publication were in effect at the time of approval for printing. Knight LLC reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatsoever.