

Summit E/XL Quick Programming Guide

Programming Keys

	+ or – keys change the value of the blinking number or letter. Pressing + and – simultaneously will change any alphanumeric character to “M”, and will change any numeric field to its minimum value.
	CURSOR key: Moves the cursor around the screen, changing which field is selected.
	ACTION key: Initiates an action such as priming. This button does not change settings.
	MENU key: Advances to the next menu screen.

Programming Screens

Operator Access Screens

These screens allow you to view alarms and diagnostic information and select formulas. No password is required.

Alarm Messages

Diagnostic Information

Diagnostic information for Formula, Latched, TAFS and Smart Relay modes. The top line shows which pumps are running (with spinning pump icon). The dashes indicate inactive pumps; flashing dashes indicate active pumps that are delayed. The bottom line displays active triggers. Flashing trigger numbers are present but not qualified.

Diagnostic information for Sequence mode. The top line shows which pumps are running (with spinning pump icon). The dashes indicate inactive pumps; flashing dashes indicate active pumps that are delayed. The bottom line displays trigger number (T), step number (S) and sequence status (“I” for ignore, “E” for end or a pump icon for pump action)

Passwords

Pressing and holding the MENU key for 5 seconds brings up this screen. Technician-level password is 123. Programmer level password is 890 until changed.

Technician-Level Screens (technician or programmer-level password required)

Use this screen to select and prime pumps.

Formula Count screen. The top two lines show formula number (F), number of times that formula has run. The bottom line shows total number of alarms (A) for that formula, and total number of hygiene alarms (H) for the formula.

Trigger Status screen. Top line displays active triggers. The bottom line displays the number of times each of the triggers has executed.

Pump Runtimes screen. The top line shows the pump number. The bottom line shows the number of minutes the displayed pump has run in its lifetime.

Temperature probe reading. If at least one formula is set with hygiene verification, this screen shows current water temperature in real time.

Programmer Access Screens (programmer-level password required)

This screen allows you to change the PCB to either an “E” unit or an “XL” unit.

Modes and units of measure screen. Use the top line to select desired units (“oz” or “ml”). Use bottom line to select run mode (Formula, Latched, Smart Relay, Sequence or TAFS).

Pump calibration screen. Use the top line to select the volume of chemical upon which calibration will be based (either 30 oz/900 ml for 2000 Series pumps or 4 oz/100 ml for 600 Series pumps). On the bottom line, select the pump number (P) and the calibration rate (1.7-220 oz/min or 500-6500 ml/min). Default rate is 67.6 oz/min or 2000 ml/min.

Speed control and pump size screen. Use top line to select pump number (P) and pump size (600 or 2000). On bottom line, set pump speed by percentage.

Formula names screen. This screen lets you create 2-line formula names. The top line lets you select which line of the formula name you are naming (Line 1 or Line 2) and the bottom line lets you choose the actual words. Example: To create the name “heavy soil”, select “Line1” and write “heavy” on the bottom line, then go back up and select “Line2” and write “soil” on the bottom line.

Programmer Access-Mode Programming

Formula mode programming. Use the top line to select the formula (F), the trigger associated with it (T) and the pump action letter (a, b or c). A “+” displayed after the “a” indicates that a “b” and/or “c” pump action exists. On the bottom line, select the pump action delay (10-990 seconds in 10-second units), the pump number (P) and the volume to be pumped (0.0-220 oz/0-6500 ml).

Latched mode programming (requires “End” trigger be programmed. See “End pump assignment screen”). Use the top line to select the formula (F), the trigger associated with it (T) and the pump action letter (a, b or c). A “+” displayed after the “a” indicates that a “b” and/or “c” pump action exists. On the bottom line, select the pump action delay (10-990 seconds in 10-second units), the pump number (P) and the volume to be pumped (0.0-220 oz/0-6500 ml).

To add prewash feeds to the main wash, make sure asterisk (*) between the “T” and pump action is on (default is off).

Smart relay mode programming. On the top line, select the trigger (T) and the pump (P). On the bottom line, select the call rate per second of trigger on-time. (0.0 to 8.5 oz/000-250 ml). Default call rate is 10 ml or 0.3 oz.

Sequence mode programming. On the top line select the formula (F), the step number (S, 1-16) and the step action (“E” for end, “I” for ignore or pump icon for pump action). If you select a pump action, you will then select a pump delay time (in 10-second increments), the pump number to perform the action and the pump volume (0.0-220 oz/0-6500 ml). The bottom line displays the step action (“End”, “Ignore” or if a pump action, pump action data).

End pump assignment screen. Use this screen to assign which pump action will log the formula as complete. Use the top line to select the formula (F) and the bottom line to select the pump that will perform the end action (P, 1-8).

Formula copy (for Formula, Latched and Sequence modes) lets you copy an existing formula and all of its properties to another formula. Select the formula you want to copy on the first line, and the formula number you want to copy it to on the second line.

This screen allows you to change passwords. Default technician password is 123 and default programmer password is 890.

This screen let you set voltage and filter time parameters to protect against false or intermittent trigger signals. On the top line, select the trigger number (T) and either “+” or “-” to indicate whether trigger is “rising” or “falling”. On the bottom line, select trigger voltage level; either “high” (h, 65-240VAC) or “low” (L, 24-240 VAC) and filter time in seconds (either 2 or 15 seconds).

Programmer Access-Receiving Cloned Setups

Press ACTION from this screen to “clone” all setups from the main pump box to the programmer.

If an error occurs during cloning, this screen appears.

Programmer Access-Sending Cloned Setups

Press ACTION from this screen to copy all setup data from the programmer to the main pump box.

If an error occurs during cloning, this screen appears.

Programmer Access-Language Selection

Select your language: English, Portuguese, French-Canadian, Finnish, Turkish, French, German, Spanish or Japanese.

Programmer Access-Hygiene Verification

This screen lets you set three different hygiene criteria for formulas. If a formula fails to meet ALL hygiene criteria, an alarm is issued. On the top line, “H” is for hygiene. Select the formula number (F), the criteria (a, b, or c) and a temperature offset value for the probe reading (00-40 or 00-72 Fahrenheit or Celsius). On the bottom line, set the temperature setpoint (0-099C or 032-210F) and the number of continuous minutes wash bath is to maintain that temperature.

Programmer Access-Flush Transport Time

This screen is only visible when a flush manifold is connected (flush manifold wire harness is plugged into main PCB). This screen lets you tell the system how long the water must flush after pumping chemical. On the bottom line, select the flush time (t) in seconds (01-99). The pump icon spins while a flush is in progress.