



**KITCHEN BRAINS®**  
**(FAST.) MODULARM SCK™**

# FACTORY PROGRAMMING GUIDE

(FASTRON.)® VISION Series VC-210 Process Controller



Save the instructions  
for future reference.  
[www.KitchenBrains.com](http://www.KitchenBrains.com)

24/7 Toll-Free Technical Support  
**1-800-243-9271**  
(from the U.S., Canada and the Caribbean)

## NOTICES

**Before you start, please read entire manual.**



**Kitchen Brains is not liable for any use of product not in accordance with its installation and operation instructions.**

**Before using this equipment, or for any questions on the operations of the appliance, consult and follow all instructions and safety warnings found in the appliance operator's manual supplied from the manufacturer of the appliance.**

**Not all features are available on some models.**

## COOKING CONTROLLER OPERATING ENVIRONMENT

The solid state components in this controller are designed to operate reliably in a temperature range up to 158°F/70°C. Before installing this controller, it should be verified that the ambient temperature at the mounting location does not exceed 158°F/70°C.

## CLEANING THE CONTROLLER

Using a clean damp cloth, wipe down your controller daily using a commercial quality foodservice-approved detergent.

Do not allow oil to build up on any part of the controller.



**NEVER use chemical or abrasive cleaners on your controller. The controller's overlay may be damaged.**

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## FACTORY ACCESS LEVEL PROMPTS

As a service provider or manager, you have access to Factory Access Level Programming on the (FASTRON.)® VC-210 controllers.

## ENTERING FACTORY PROGRAMMING MODE

Entering Passcode number 3228 will provide you with programming access to the features in this guide.

Key Press	Action
	Press and hold the P key for 3 seconds.
	Scroll down to "Programming."
	Press the P key to lock in the entry.
	Enter Passcode 3228.
	Press the P key to continue.

This manual will thoroughly familiarize you with the operation of the (FASTRON.)® Controller so that you may use it in the most effective way to enhance the smooth running of your restaurant's cooking operations.

If any problems occur, or if you have any questions about the instructions, contact Kitchen Brains® technical support toll-free at 1-800-243-9271.

## SYSTEM PROGRAMMING

Key Press	Display	Action
	Appliance Type (Other, ...)	Use the Left/Right arrow keys to select the appliance type (TBD) These appliance types are specific models of control each with specific tuning parameters and configuration. This decision does not switch in different recipes.
 OR 	"Are you sure? Existing recipes will be cleared! (NO, YES)	If the Appliance Type has been modified the user will be prompted with this message. If the user selects No then no change will be made. If the user selects yes then all recipe settings for all products will be cleared. (0 times, 270 set temps, disabled features). Use the Left/Right keys to make the selection.
 OR 	Select Language (Other, ENGLISH)	Use the Left/Right arrow key to select the language
 OR 	Tone Level (0, 1, 2, 3, 4, 5)	Use the Left/Right arrow key to select the Tone Level. At each Tone Level the system will continuously give the appropriate tone.
 OR 	Temperature (F, C)	Use the Left/Right arrow keys to select the method that all temperatures will be displayed in.
 OR 	Profile Timing (NO, YES)	Use the Left/Right arrow keys to select the profile timing, NO- total time only, YES – total or profile time. This option is only for the Factory/Manager Access Level (3228/6647).
 OR 	"Are you sure? Existing recipes will be cleared! (NO, YES)	If a profile recipe exists in the current recipe setting and the user selects NO in the Profile Timing field, the user will be prompted with this message. If the user selects No then no change will be made. If the user selects yes then all recipe settings for all products will be cleared. (0 times, 270 set temps, disabled features). Use the Left/Right keys to make the selection.
 OR 	Setback Time HH:MM	Use the numeric keys to select the time in hh:mm format for activating Setback Mode. Range is 0 to 99:59.
 OR 	Setback Temp xxxF	Use the numeric keys to select the Setback Temperature in the range of 200 to 375 F.
 OR 	Qty Prompt Time MM:SS	Use the numeric keys to enter the quantity prompt time in MM:SS format. Range is 00:20 to 2:00.
 OR 	Global Filtr Cnt XX	*** If enabled *** Use the numeric keys to select the number of cooks allowed on all keys before forcing Filtering. The range is from 00 to 99, where 00 means no Global Filtering.

## SYSTEM PROGRAMMING (CONTINUED)

Key Press	Display	Action
 OR 	Repair Function (NO, YES)	Use the Left/Right arrow keys to select whether the Repair Function will be active or not.
 OR 	Repair Fail Time HH:MM	NOTE: If "REPAIR FUNCTION" is set to "NO" in the step above, then this entire step is skipped.  Use the numeric keys to select the time duration required for a repair lockout to occur.
 OR 	Daylight Savings (SPRING, FALL)	Use the Left/Right arrow keys to select the appropriate Daylight Savings time.
 OR 	Select Stagger (00 MINUTES, 15 MINUTES, 30 MINUTES, 45 MINUTES, 60 MINUTES)	Use the Left/Right arrow keys to select what the SMS stagger time will be.
 OR 	# RQI Trackers XX	Enter number of remote Trackers (NONE(0)-30) using the left and right arrow keys. NONE means that Tracker communication is disabled.
 OR 	Tracker 1 Add	Enter 1-31 using the left and right arrow keys. Do not show this decision if NO. OF RQI TRACKERS is NONE.
 OR 	Tracker 2 Add	For each RQI, repeat this decision.
 OR 	SCK Status Sound (YES/NO)	Use the Left or right arrow key to enable or disable the sck status beep sound.
 OR 	Comm Error Disp (NO, YES)	Use the Left or right arrow key to enable or disable the sck status communications error message.
 OR 		Returns to main menu.

## RECIPE PROGRAMMING

Key Press	Display	Action
	Select Product To Program	Product Keys 1 - 20 are lit waiting for the user to press one of the Product keys. Once selected only that Product Key stays lit.
Product Key (1-20)	<ol style="list-style-type: none"> <li>1. All</li> <li>2. Name</li> <li>3. Time</li> <li>4. Temperature</li> <li>5. Timing</li> <li>6. Pressure</li> <li>7. Alarm</li> <li>8. Alarm Name</li> <li>9. Alarm Done</li> <li>10. Tone</li> <li>11. Hold Time</li> <li>12. Hold Link</li> <li>13. Fltr Lckout</li> <li>14. Product Cnt</li> <li>15. RQI Tracker</li> <li>16. Exit</li> </ol>	<p>User may select one of the displayed options using the Up/Down keys or the shortcut key. Selecting 'All' will present the user with the list of programmable parameters for the selected product as below. Selecting any one of the other options will take the user to the config for that option including all stages. (i.e. 'Time' selection will present the user with 'Stage 1 Time, Stage 2 Time' etc....). In this case pressing Enter or Up/Down Keys after Stage 9 Time will get the user back to this menu screen.</p> <p>This menu will form dynamically if certain features are not enabled (i.e. pressure, RQI, etc).</p> <p>Selecting Exit returns the user to the main menu.</p>
Shortcut #1 or 'All' selected.	Product Name "Strips"	<p>The display show product name in the second line. Use the Exit Cool key to delete the name in product name field. Or use the Up/Down arrow keys to select name from product name library. Or use the product keys (1-9,0) to enter a product name (the predictive text algorithm is used for the search).</p> <p>Note: predictive text algorithm – as the user presses the product keys (1-9,0), an algorithm searches the library for a list of possible items that match the key press combination, and offers up the most probable choice.</p>
 OR 	Time Format (TOTAL, PROFILE)	Use the Left/Right arrow keys to scroll through the type of format to use when displaying the decrementing the Cook time remaining. It may be the Total for all Stages or just the Time for the individual Stage. The user will be prompted with this message only if the Profile Timing is YES, see the Profile Timing field.
 OR 	Are you sure? Recipe profile will be cleared! (NO, YES)	If the Time Format has been modified the user will be prompted with this message. If the user selects No then no change will be made. If the user selects yes then all recipe settings for this product will be cleared. (0 times, 270 set temps, disabled features). Use the Left/Right keys to make the selection.
 OR 	Stage 1 Time MM:SS	Use the numeric keys to set cook time for Stage 1. Range is from 00:00 to 99:59. If Recipe Timing Format decision is set to Total then this time is a cook time stamp. If the decision is set to Profile then this time is the duration of the stage Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Stage 1 Temp XXX F	Use the numeric keys to set the temperature setpoint for this stage. Range is from 200 to 375 F or the equivalent in Degree C. Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Stage 1 Timing (STRAIGHT, FLEX)	Use the Left/Right arrow keys to select the type of timing to be used for this stage. Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Stage 1 Pressure (OPEN , CLOSED)	Use the Left/Right arrow keys to select whether the Pressure Solenoid should be opened or closed. This message will only appear if the appliance has a pressure solenoid. Use the Enter or Up/Down Keys Key to advance to the next Stage.

## RECIPE PROGRAMMING (CONTINUED)

Key Press	Display	Action
		If System Programming Recipe Timing Type decision is set to Profile then the following 3 stage alarm parameters appear here. If the decision is set to Total then these alarm parameters do not appear in the menu. Alarming will be done by Time Stamp within the cook as defined later on in this table.
 OR 	Stage 1 Alarm MM:SS	Use the numeric keys to set the time in MM:SS format for activating the Action Alarm. This time represents the amount of time left in the stage when the alarm should occur. Skip the next two entries if the Alarm Time for this Stage is zero. Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Stage 1 Alm Name "Action"	See Product Names above.
 OR 	Stage 1 Alm Done (AUTOMATIC, MANUAL)	Use the Left/Right arrow keys to select how the Action Alarm is to be canceled. Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Stage 1 Alm Tone (NONE, SHORT, MEDIUM, LONG, DOUBLE, LONG/SHORT)	Use the Left/Right arrow keys to select the beep pattern for the Alarm and Done conditions. The beep pattern will sound when it is scrolled to.
		Repeat the above stage related entries until stage 9 is reached or the Stage Time is set to 00:00,
		If the timing type decision is set to Total then the following alarm parameters appear next.
 OR 	Alarm 1 Time MM:SS	Use the numeric keys to set the time in MM:SS format for activating the Action Alarm. This is the Time Stamp within a Cook that the alarm will annunciate. Skip the next two entries if the Alarm Time if this Stage is zero. Use the Enter or Up/Down Keys Key to advance to the next Stage.
 OR 	Alarm 1 Name "Action"	See Product Names above.
 OR 	Alarm 1 Done (AUTOMATIC, MANUAL)	Use the Left/Right arrow keys to select how the Action Alarm is to be canceled. Use the Enter or Up/Down Keys Key to advance to the next Stage.
		Repeat the above alarm entries until Alarm #6 is reached or the Alarm time is set to 00:00.
 OR 	Alarm 1 Tone (NONE, SHORT, MEDIUM, LONG, DOUBLE, LONG/SHORT)	Use the Left/Right arrow keys to select the beep pattern for the Alarm condition. The beep pattern will sound when it is scrolled to.
		Repeat the above alarm entries until Alarm #9 is reached or the next Alarm time is zero.

## RECIPE PROGRAMMING (CONTINUED)

Key Press	Display	Action
 OR 	Hold Time HH:MM	Use numeric keys to set the amount of hold time required. Range is from 00:00 to 99:59.
 OR 	Hold Link XX	This parameter will be skipped if the hold time is zero. Use the left and right arrow keys to modify the value. Range is 1-20 (product key number).
 OR 	RQI Tracker ID	Show this decision if NO. OF RQI TRACKERS != NONE. The value is in the range of NONE(0) to 30. If NONE is entered, this disables communication to RQI Tracker for this recipe. Default = NONE(0). Note this is not the address, but the ID from System Programming. Use the left and right arrow keys to modify the value.
 OR 	RQI Display ID	Show this decision if RQI TRACKER ID != NONE. Range: 1-8. Default = 1. This is the timer location within the Tracker Timer. Use the left and right arrow keys to modify the value.
 OR 	Filter Lockout (No Filter, 1-99, COOL)	Use the Left/Right arrow keys to select which end of cook cycle desired. No Filter = return to Drop temp after cook, Cool = return to Setback Temp after cook, 1-99 = how many cooks are allowed before entering filter lockout. When 1- 99 is selected, product cycles will return to drop temp until a filter lockout cycle is forced.
 OR 	Product Heads XX	Use the left and right arrow keys to modify the value. This is the number of Heads that will be tallied per cook?? The range is 0 to 99 pieces or "USER PROMPT"
 OR 	Select Product To Program	Press P key to return to recipe menu.

## PRODUCT NAME LIBRARY PROGRAMMING

Key Press	Display	Action
	Prod Name Lib	<p>The display shows blanks in the second line. Use the Up/Down arrow keys to select a name from product name library. Or use the product keys (1-9, 0) to enter a name (the predictive text algorithm is used for the search).                      The Exit Cool key is used to delete the name in the second line                      The Scan key is used to toggle between the predictive text input and traditional text input.                      The Exit Fill key is used to toggle between uppercase or lowercase letters in traditional text input.                      The Left/Right arrow keys are used to move the cursor position.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Predictive text input – as the user presses the product keys (1-9, 0), an algorithm searches the library for a list of possible items that match the key press combination, and offers up the most probable choice.</li> <li>2. Traditional text input – the product keys (1-9, 0) can be used to enter numeric values or alphabetic values and symbols when editing the name. The assignment of alphanumeric values and symbols to keys will mirror the typical cell phone text messaging assignment as described in User Interface/Function Keys.</li> </ol>
	Save Library (ADD, MODIFY, CANCEL)	<p>ADD – the name entered will be added to the library.                      MODIFY – the item selected will be modified and saved to the library.                      CANCEL – no change to the library.</p>
		Returns to main menu.

## ALARM NAME LIBRARY PROGRAMMING

Key Press	Display	Action
	Alarm Name Lib	<p>The display shows blanks in the second line. Use the Up/Down arrow keys to select a name from alarm name library. Or use the product keys (1-9, 0) to enter a name (the predictive text algorithm is used for the search).                      The Exit Cool key is used to delete the name in the second line                      The Scan key is used to toggle between the predictive text input and traditional text input.                      The Exit Fill key is used to toggle between uppercase or lowercase letters in traditional text input.                      The Left/Right arrow keys are used to move the cursor position.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Predictive text input – as the user presses the product keys (1-9, 0), an algorithm searches the library for a list of possible items that match the key press combination, and offers up the most probable choice.</li> <li>2. Traditional text input – the product keys (1-9, 0) can be used to enter numeric values or alphabetic values and symbols when editing the name. The assignment of alphanumeric values and symbols to keys will mirror the typical cell phone text messaging assignment as described in User Interface/Function Keys.</li> </ol>
	Save Library (ADD, MODIFY, CANCEL)	<p>ADD – the name entered will be added to the library.                      MODIFY – the item selected will be modified and saved to the library.                      CANCEL – no change to the library.</p>
		Returns to main menu.

## CLOCK/DATE PROGRAMMING

Key Press	Display	Action
	Time Of Day HH:MM	Use the numeric keys to set the time of day. The range is from 00:00 to 23:59.
 OR 	Current Year XXXX	Use the left and right arrow keys to select the current calendar year. Range is from 2000 to 2099.
 OR 	Current Month "JANUARY"	Use the left and right arrow keys to select the current calendar month.
 OR 	Current Date XX	Use the left and right arrow keys to select the current calendar date. The computer will automatically limit the maximum date value depending on the month/year combination.
 OR 	Current Day "SUNDAY"	Use the left and right arrow keys to select the current calendar day of the week.
 OR 		Use the Left/Right arrow keys to select the profile timing, NO – total time only, YES – total or profile time. This option is only for the Factory/Manager Access Level (3228/6647).

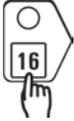
## DIAGNOSTICS PROGRAMMING

Key Press	Display	Action
	DIAGNOSTICS MODE	The user will press a product key 1 through 20. Whichever is pressed will perform a specific diagnostic function. That function will continuously update until another product key is pressed. If no key is pressed after the recovery times have been shown, the display will show "DIAGNOSTICS MODE" and all LEDs will be OFF. If a key has been pressed without a test associated with it, the display will show "DIAGNOSTICS MODE".
	Recovery Time X MM:SS	Display the last 5 recovery times starting with the latest one. Rotate display once per second. The display will show if it is a Left Vat or Right Vat recovery time (Split Vat).
	Heat Demand or Heat Demand Left (ON, OFF)	Continuously refresh the status of the heat demand (for single vat) or heat demand left vat (for split vat) output. The product key 1 LED will be ON.
	Heat Demand Rt (ON, OFF)	Continuously refresh the status of the heat demand right vat output. Or show "DIAGNOSTICS MODE" for unused relay. The product key 2 LED will be ON.

## DIAGNOSTICS PROGRAMMING (CONTINUED)

Key Press	Display	Action
	Pump (ON, OFF)	Continuously refresh the status of the Pump output. Or show "DIAGNOSTICS MODE" for unused relay. The product key 3 LED will be ON.
	Pressure (ON, OFF)	Continuously refresh the status of the Pressure Output. Or show "DIAGNOSTICS MODE" for unused. The product key 4 LED will be ON.
	Cntrl Xfer or Cntrl Xfer Left or Pilot or Heat Booster (ON, OFF)	Continuously refresh the status of the control transfer or control transfer left or pilot or heat booster output. Or show "DIAGNOSTICS MODE" for unused. The product key 5 LED will be ON.
	Cntrl Xfer Right or Blower or Fan (ON, OFF)	Continuously refresh the status of the control transfer right or blower or fan output. Or show "DIAGNOSTICS MODE" for unused relay. The product key 6 LED will be ON.
	Basket Left (ON, OFF)	Continuously refresh the status of the left basket lift. Or show "DIAGNOSTICS MODE" for unused relay. The product key 7 LED will be ON.
	Basket Right (ON, OFF)	Continuously refresh the status of the right basket lift. Or show "DIAGNOSTICS MODE" for unused relay. The product key 8 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE" The product key 9 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE" The product key 10 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE" The product key 15 LED will be ON.
	Ignition Status (OPEN, CLOSED)	Continuously refresh the status of ignition input. Or show "DIAGNOSTICS MODE" for unused. The product key 12 LED will be ON.
	Air Switch (OFF, ON)	Continuously refresh the status of air switch input. Or show "DIAGNOSTICS MODE" for unused. The product key 13 LED will be ON.
	Power Feedback (OFF, ON)	Continuously refresh the status of power feedback input. Or show "DIAGNOSTICS MODE" for unused. The product key 14 LED will be ON.

## DIAGNOSTICS PROGRAMMING (CONTINUED)

Key Press	Display	Action
	Diagnostics Mode	Show "DIAGNOSTICS MODE". The product key 15 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE". The product key 16 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE". The product key 17 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE". The product key 18 LED will be ON.
	Diagnostics Mode	Show "DIAGNOSTICS MODE". The product key 19 LED will be ON.
	Display Test -> All VFD pixels are lit	All VFD pixels are lit and all LEDs turn On and Off. This will include the SCK Connectivity LED. Repeat until another test is executed or this mode is exited. Holding down the product key 20, all LEDs will be On and beeper will be sound.
 OR 		Return to main menu

## TEMPERATURE OFFSET PROGRAMMING

Key Press	Display	Action
	TEMP OFFSET 1 (+/-) XX F	Use the numeric keys to set the temperature to be used for offset. The range is from -20 F to 20 F. Display also could be in Celsius.  NOTE: Only display the "1" if the current appliance group is Split Vat.
 OR 	TEMP OFFSET 2 (+/-) XX F	Use the numeric keys to set the temperature to be used for offset for the 2nd fry pot. This will only occur if Split Vat option was selected. The range is from -20 F to 20 F. Display also could be in Celsius (-11 C to 11 C).
 OR 		Return to main menu.

### SMS SETUP PROGRAMMING

Key Press	Display	Action
	EVENT TIME 1 HH:MM	Use the numeric keys to set the time for Auto Polish #1. The range is from 00:00 to 23:59.
OR	POLISH DUR 1 MM Minutes	Use the numeric keys to set the Polish duration time. The range is from 00 to 60 minutes.
OR	DELAY TIME 1 H Hours (or UNLIMITED)	Use the numeric keys to set the Polish Delay Time in hours or Unlimited. The range for hours is 0 to 8 and Unlimited.
OR		Repeat the last 3 entries for Auto Polish Event 2.
OR	POLISH PREHEAT XXXF	Range: 200F to 350F Default: 300F Use the numeric keys to set the Polish Preheat temp.
OR		Return to main menu.

### SMS ACTIVATE PROGRAMMING

Depending on code entered, one of four SMS Activation times will be selected.

Key Press	Display	Action
	SET SMS TIMING SCHEME 1	For SMS use: Event 1 = 7:00 Hours, 30:00 Duration, 0 Hour Delay Event 2 = 14:00 Hours, 30:00 Duration, 3 Hour Delay
OR		
	SET SMS TIMING SCHEME 2	For SMS use: Event 1 = 7:00 Hours, 15:00 Duration, 0 Hour Delay Event 2 = 14:00 Hours, 15:00 Duration, 3 Hour Delay
OR		
	SET SMS TIMING SCHEME 3	For SMS use: Event 1 = 14:00 Hours, 15:00 Duration, 3 Hour Delay Event 2 = 20:00 Hours, 15:00 Duration, 3 Hour Delay
OR		
	SET SMS TIMING SCHEME 4	For SMS use: Event 1 = 14:00 Hours, 30:00 Duration, 3 Hour Delay Event 2 = 20:00 Hours, 30:00 Duration, 3 Hour Delay
OR	"Are you sure? Once activated, this feature cannot be deactivated!" (NO, YES)	If the user selects No then no change will be made. If the user selects YES then the SMS scheme will be changed. Use the Left/Right keys to make the selection.
OR		Will select the currently displayed SMS scheme and return to main menu.

### REPAIR LOCK PROGRAMMING

Key Press	Display	Action
	REPAIR FUNCTION	After entering the System programming mode, press the down key until the display reads "REPAIR FUNCTION."
 OR 	NO	Press the Left or Right Arrow key until the display reads "NO".
	SYSTEM	Press the Down Arrow key until the display reads "SYSTEM".
	SYSTEM	This will provide you access into the System Programming.
	REPAIR LOCK	Press the Down Arrow key until the display reads "REPAIR LOCK".
	RESET REPAIR	Scroll through the options that come up until "RESET REPAIR" is displayed.
 OR 	YES	Press the Left or Right arrow key until the display reads "YES" to reset the repair
		Will enable the Reset Repair.
 THEN 	EXIT	This will exit you from the system programming mode after Reset Repair has been enabled.

### INSTANT ON PROGRAMMING

If the instant on enable flag is not enabled (via download) then this option will not be available or displayed regardless of the menu. The user will be able to program an instant On time per key.

Key Press	Display	Action
	Select Product To Program	Product Keys 1 - 20 are lit waiting for the user to press one of the Product keys. Once selected only that Product Key stays lit.
Product Key (1-20)	Instant On :XX	Use the Left and Right arrow keys to adjust the instant On time. A value of :00 disables the feature. Pressing the Down or Enter key will return to the Product Select screen.
 OR 	Select Product To Program	All product LEDs are lit. Press P or Down key to return to the main menu or select another Product to program.

## SCK ADDRESS PROGRAMMING

Factory default address = 30, when this value is changed in the field, SCK will automatically data log when it goes on and off the network. When in this mode, the SCK LED on the front panel will flash on each SCK transmission.

In the future there shall be a need for programming IrDA connection setup (baud rate) and for 802.11b connection setup (IP Address, Subnet Mask, Adhoc/AccessPoint...)

Key Press	Display	Action
 7 2 5 0	SCK Address PROGRAMMING	
	SCK Address XX	Use the Left/Right arrow key to scroll through the SCK address to be used for this controller. The range is from 1 to 32. AutoAssign is run when address 32 is set.
 OR 	Network Nodes XX XX XX XX XX	The system will scroll in marquee style all the SCK Nodes currently in the system. The scrolling will be constantly updated.
 OR 		Return to main menu.

## RUN TIME PROGRAMMING

Each Buttons Number of Probe Errors, Relay Cycles (increments of 10), Power on Time (increments of 1 Hour), Number of filters, High Limits, Cold Starts and any other which are discussed during product implementation. The values must be available through the SCK port where they can be viewed or reset. The counts display will be appliance group specific. This means that the relay counts naming scheme will follow the name of the specific relay being controlled by that appliance group. Also, if the appliance group is a split vat, then there will be counts for both left and right vats where appropriate (probe errors, filters, high limits, etc).

- o Programmable: No
- o Downloadable: Yes
- o Number per stage: NA
- o Visual Indicator: Display name and value of counters
- o Audible Indicator: None

### RUN TIME PROGRAMMING (CONTINUED)

Key Press	Display	Action
 OR 	RELAY CYCLES XXXXX	<p>Display Relay Cycles (increments of 10, except the Pressure Cycles). The display will show the specific name for the relay associate with the appliance group selected. The user will be able to view each relay's cycle count by pressing Down or Enter to advance through the list of relays.</p> <p>For Single Vat:                      "Heat Cycles x10"                      "Pressure Cycles "                      "Ctl Xfer Cyc x10"                      "L Bskt Lift x10"                      "R Bskt Lift x10"</p> <p>For Split Vat:                      "L Heat Cyc x10"                      "R Heat Cyc x10"                      "L Ctl Xfer x10 "                      "R Ctl Xfer x10 "                      "L Bskt Lift x10 "                      "R Bskt Lift x10 "</p> <p>For Henny Penny Domestic:                      "Heat Cycles x10"                      "Pump Cycles x10"                      "Pressure Cycles "                      "Ctl Xfer Cyc x10"                      "L Bskt Lift x10 "                      "R Bskt Lift x10 "</p> <p>For Henny Penny International (CE):                      "Heat Cycles x10"                      "Pump Cycles x10"                      "Pressure Cycles "                      "Pilot Cycles x10"                      "Blower Cyc x10"                      "L Bskt Lift x10 "                      "R Bskt Lift x10 "</p> <p>For Falcon:                      "Heat Cycles x10"                      "Booster Cyc x10"                      "Fan Cycles x10"                      "L Bskt Lift x10 "                      "R Bskt Lift x10 "</p>
 OR 	HIGH TEMP LIMITS XXX	<p>Display number of high limit errors. Split Vat models will display left vat counts first. Pressing Enter or Down keys will advance to right vat counts.</p> <p>For Split Vat:                      "High Limits Left"                      "High Limits Right"</p> <p>All Others:                      "High Temp Limits"</p>
 OR 	PROBE ERRORS XXX	<p>Display number of probe errors. Split Vat models will display left vat counts first. Pressing Enter or Down keys will advance to right vat counts.</p> <p>For Split Vat:                      "Probe Error Left"                      "Probe Error Right"</p> <p>All Others:                      "Probe Errors"</p>
 OR 	MELT CYCLES XXX	<p>Display number of completed melt cycles. Split Vat models will display left vat counts first. Pressing Enter or Down keys will advance to right vat counts.</p> <p>For Split Vat:                      "Melt Cycles Left"                      "Melt Cycles Right"</p> <p>All Others:                      "Melt Cycles"</p>

## RUN TIME PROGRAMMING (CONTINUED)

Key Press	Display	Action
 OR 	NUMBER OF FILTER XXX	Display number of filters completed. Split Vat models will display left vat counts first. Pressing Enter or Down keys will advance to right vat counts.  For Split Vat: "Filter Cnts Left" "Filter Cnts Rght"  All Others: "Number of Filter"
 OR 	Cold Starts XXX	Display number of cold starts.
 OR 	Power On Time XXX	Display cumulative Power On Time in increments of 1 hour.
 OR 	Reset All Counts (NO, YES)	Use the Left/Right arrow key to select whether all runtimes should be reset.

## PROGRAMMING FEATURES

### SYSTEM PROGRAMMING

Programming mode which allows a manager/technician to better manage the functionality of their Kitchen Brains® controller, computer or timer. System programming goes beyond simple product programming, it creates the backbone of how your Kitchen Brains™ product can be best used to maximize its features and functionality.

### RECIPE PROGRAMMING

Allows the user to establish set cook times and/or action alarms for any given product. User has the ability to program everything from a simple count down time to the most complicated profile cook for a product.

### PRODUCT NAME LIBRARY PROGRAMMING

Allows user to choose from multiple pre-determined product names or allows you to custom create a product name that will be available for active product processing.

### ALARM NAME LIBRARY PROGRAMMING

Allows user to choose from multiple pre-determined action alarm names or allows you to custom name an action alarm that will sound once programmed into the controller, computer or timer.

### CLOCK/DATE PROGRAMMING

A real time clock adds the ability for a controller to continuously keep track of the current time and date. This is an attractive feature from a user interface point of view, and also allows for time stamping in logs or events.

### DIAGNOSTICS PROGRAMMING

Allows a technician to perform a specific diagnostic function. The ability to see recovery time, turn on outputs and test the display pixels

### TEMPERATURE OFFSET PROGRAMMING

Temperature offsets are used to correct linear errors in temperature measurements. These values are set for different temperature probes, different appliances, and different heating types.

### SMS SET-UP PROGRAMMING

Allows the user to set up certain processes, for example filtering, polishing, setback, instant-on, which will extend the valuable life of your cooking oil. These actions can be set up based on the most convenient time for the user and incorporates the use of cooking counts & the real-time clock.

### SMS ACTIVATE PROGRAMMING

Programming mode that enacts the SMS (Shortening Management System) features which were created during SMS Set-up Programming.

### REPAIR LOCK PROGRAMMING

Programming mode that allows the user to enable or bypass prompts that alert the users that their appliance is not working as originally specified. By enabling the Repair Lock, users are notified if/when an appliance is experiencing problems with reaching certain temperatures as originally intended. Repair Lock, if enabled, can prevent an appliance from being used until a technician is brought in to repair and re-set the appliance or Kitchen Brains® product.

### INSTANT ON PROGRAMMING

When a cook is started, the "Instant On" feature will turn on the heat in anticipation of a drop in probe temperature. "Instant On" is used to help minimize or prevent temperature undershoot.

### SCK ADDRESS PROGRAMMING

Programming mode that is used with Xwire hardware and SCK® (Smart Commercial Kitchen). This programming will allow to user to change the address of the control to set up a network. Each control would need a different address if being used with SCK.

### RUN TIME PROGRAMMING

Run Time Programming will allow users to see the number of specific error and counts that occur in the control. Each button will show the number of probe errors, relay cycles (increments of 10), power on time (increments of 1 hour), number of filters, high limits, cold starts and melt cycles. These values are resettable.

## MENU STRIP INSTALLATION

### Tools Needed:

Flat Head Screw Driver  
Gloves

### Disassembly Steps for the VC-210 Bezel & Menu Strip Installation

**Note: You should select the menu strip that corresponds with the recipe version you intend to load into the control.** (If one does not fit your needs, contact Kitchen Brains at 1-800-FASTRON)

1. Attach ESD wrist strap, **always use the ESD wrist strap throughout the process of upgrading the VC-210**
2. Unscrew the 2 screws from each side of the bezel and remove the 2 Tinnerman nuts, holding the screws in place from each side
3. Remove the bezel
4. Simply slide the menu strip into the small slit on the right of the overlay, as seen in Figure 1.1
5. Once completed, reattach bezel following the steps above

Figure 1.1



## NOTES

## Want to learn more about Kitchen Brains® products?

Visit our website:

[www.KitchenBrains.com](http://www.KitchenBrains.com)

## Customer Service and Technical Assistance

Our customer service department is available for orders and questions Monday through Friday between the hours of 8 AM and 5 PM EST. Call us toll-free at **1-800-FASTRON (800-327-8766)** if you're in the US, Canada or the Caribbean, or at **203-377-6860** if you're outside of these areas.

Toll-free technical assistance is available 24 hours a day, 365 days a year by calling **1-800-243-9271** (from the U.S., Canada and the Caribbean) when help is needed immediately.

## Free Program for Service Exchanges

Kitchen Brains provides an Exchange Program, at no extra cost, if a unit should fail. In the event of failure, you have the option of (1) receiving a replacement product from our factory, freight prepaid; (2) exchanging the failed product for a replacement product at one of our authorized local service centers; or (3) selecting on-site repair or replacement of the failed unit by one of our authorized local service centers.

To take advantage of this program, simply call our toll-free customer service number, **1-800-243-9271**. If you elect to receive an exchange unit from the factory, a replacement unit will be sent immediately. Upon receipt of the replacement unit, simply return the failed unit to the factory, freight prepaid, using the same carton and packing material in which the replacement unit was shipped. The unit will be replaced free of charge, if still under warranty, and if the product shows no evidence of abuse or alteration. If the unit is not under warranty, you will pay repair charges and shipping costs to and from the factory.

Any minor adjustment or calibration and any labor costs for the replacement of probes will be made at your expense.

The Kitchen Brains® Exchange Program is available to any Domestic Customer whose account is current, and applies to all Kitchen Brains® Timers, Computers and Controllers.



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