



**VEC 15
PROGRAMMING SECTION**



VEC 15 PROGRAMMING OPERATION

The VEC 15.1 Controller uses a 4-button programming system:

Programming Buttons: # 1 – Exit/ Home
 # 2 – Increase/ Advance
 # 3 – Decrease/ Backup
 # 4 – Enter/ Save

1	2	3
4	5	6
7	8	9
CLR	0	ENT

DISPLAY KEYPAD

To access Mode functions, open the door. Locate the Mode Button on the Main Control Board and press until Diagnostics appears. Use selection button 2 or 3 to navigate through the modes.

The Modes are as follows:

Diagnostics
Coin Payout
Tube Fill
Test Mode
Calibration
Cash Data
Sales Data
Discount Counter*
Free Counter*
Set Price
Configuration
Door Closed Password
Set Language
Set Clock **
Lighting **
Refrigeration ***



Sales Block 1-8 **
Discount **
Override ****
Custom Message
Return

- * For the Discount Counter and/ or Free Vend Counter to work, the option must be turned on and Set Clock Function must be activated and set. An override switch is required to activate the counters.
- ** These modes will only appear when the Timing Features in Configuration is turned On.
- *** Limited options appear in this mode depending on whether the Timing Features in Configuration is On/Off.
- **** A secondary 'kit' is required for this option.

Note: Items that are in quotes, for example: "X Motor", are what is displayed on the 20 character display:

Diagnostics:

Press Button 4 to enter Diagnostics Mode. If no errors have occurred, the display will read "Error None". If an error code displays, enter the code using Button 4. Press Button 2 to advance through the 'detailed summary' of the individual error codes. To clear the errors, press and hold Button 4. The display will read "Error None". To exit the Diagnostics Mode, press Button 1.

Coin Payout:

Coin Payout Mode allows the operator to 'test' for proper operation of the changer tubes.

1. Enter on Button 4.
2. Advance on Button 2 to choose denomination.
3. Enter on Button 4 to dispense denomination displayed.
4. Exit on Button 1.



Tube Fill:

The changer coin tubes can be filled via the external coin insert plate or the acceptor part of the changer. This mode enables the Control Board to keep an accurate count of the coins.

1. Enter on Button 4.
2. Insert coins through either the coin insert slot or acceptor part of the changer. The controller will display the 'value' and quantity of coins in the changer tubes.

Test Mode:

Test Mode Vending:

Up to five products can be vended in this mode.

1. Press Button 4 – Display will read 'Close Door to Vend'.
2. Close outer door.
3. Display will read 'Please make a selection'.
4. Product should dispense.

Test Mode Test Hopper Flap:

1. Enter on Button 4 – Testing in Progress – followed by Hopper Flap open/ wait/ close will display while performing these actions.
2. Exit on Button 1.

Test Mode Test Hopper Bucket:

1. Enter on Button 4 – 'Testing in Progress' followed by 'Hopper Bucket open/ Hopper Bucket close' will display while performing these actions.
2. Exit on Button 1.

Test Mode Test Vend Detection:

1. Enter on Button 4 – Display will read 'Testing in Progress' followed by:
 - – there is nothing blocking the optics, or ○○○ – optics are blocked.Hopper Bucket will open to allow blocking/ unblocking of the optics.
2. Exit on Button 1.



Test Mode Test Motors:

After completion of work in Test Motors, please ensure that X, Y, Z and Clamp Motors have returned to the 'Home' position before closing the outer door.

Test Motors X Motor:

1. Enter on Button 4 – 'Pls wait...Entering Test Motors Mode', followed by 'Test Motors X Motor' – Rail should move to the top of the vendor.
2. Enter on Button 4 – X Motor Go Home.
3. Enter on Button 4 – 'Testing in Progress' – Hand should move to the Lock side of the door.
4. Exit on Button 1.
5. Advance on Button 2 – 'Go Opposite of Home'.
6. Enter on Button 4 – 'Testing in Progress' – Hand should move to hinge side of the door.
7. Press Button 1 twice to exit – Test Motors X Motor.

Test Motors Y Motor:

1. Advance on Button 2 – Test Motors Y Motor
2. Enter on Button 4 – 'Y Motor Go Home'
3. Enter on Button 4 – 'Testing in Progress' – Rail should move to the bottom of the door.
4. Exit on Button 1
5. Advance on Button 2 – 'Y Motor Go Opposite of Home'
6. Enter on Button 4 – 'Testing in Progress' – Rail should move to top of door
7. Exit on Button 1 twice – 'Test Motors Y Motor'

Test Motors Z Motor:

1. Advance on Button 2 – 'Test Motors Z Motor'
2. Enter on Button 4 – Calibration – Z Pos Z Cycle
3. Enter on Button 4 - Testing in Progress – Hand Clamp moves towards the shelves, pauses momentarily, then retracts.
4. Exit on Button 1 twice – Test Motors Z Motor

****** Note – Do not apply pressure to the 'Arm' as it could potentially jam. Power down vendor, wait 10 seconds, power on. Vendor should 'Home' any out of sync parts on the arm.***



Test Motors Clamp Motor:

1. Enter on Button 4 – ‘Clamp Motor Clamp Open’
2. Enter again on Button 4 – ‘Testing in Progress’ – the Fingers on the Hand should open
***** The Hand will not open if it is already open*****
3. Exit on Button 1
4. Advance on Button 2 – ‘Clamp Motor Clamp Close’
***** The Hand will not close if it is already closed*****
5. Enter on Button 4 – ‘Testing in Progress’ – The Fingers on the Hand Clamp should close
6. Press Button 1 twice to exit

Test Motor Get X Y Z Positions:

This is not applicable unless there is a problem. Please refer to the detailed instructions in the ‘Trouble Shooting Section’ of the Vue 30/40 Manual.

**ALWAYS ENSURE THE CLAMP HAND HAS RETRACTED
BEFORE CLOSING THE DOOR**

Note – When you are in any Test Motor operation where the ‘HAND’ is Extended be sure to EXIT MODE on Button 1 before closing the Door

Test Mode Sensor Status:

1. Enter on Button 4 - Sensor Status - ● – Inactive or ○ – Active
 - X ● or ○ - X Home Sensor located on the Z Housing
 - Y ● or ○ - Y Home Sensor located on the X Rail
 - Z ● or ○ - Z Home Sensor located on the PDC
 - C ● or ○ - Hand Clamp Sensor located on the Hand
 - F ● or ○ - Forward Looking Optics – Located on the top right corner of the Hand.
If any ‘Reflectors’ are removed/ fall off of the Hinged or Lock Side of the vendor and it is a 5 shelf unit – it will fail the Discovery. In ‘Discovery’ they must be on all outside shelves. The middle shelves do not matter.
Note: In case the sensors are changed, press ‘4’ to refresh the sensor status.



Test Mode Display:

1. Enter on Button 4
2. The 20 'boxes of pixels' on each line should illuminate
3. Exit on Button 1

Test Mode Switches:

1. Enter on Button 4
2. Activation of individual selection buttons (1 – 12) should display
3. To Exit, press and hold Button 1 for 5 seconds or until Display returns to 'Test Mode Switches'

Test Mode Relays:

This Mode allows you to test the following relays:

1. Compressor
 2. Fluorescent Light
 3. Heater
 4. Fan
-
1. Enter on Button 1 – Compressor 'Off'
 2. Enter again on Button 4 – 'Off' flashes
 3. Advance on Button 2 – 'On' flashes
 4. Enter on Button 4 – Compressor should turn 'on' if relay is functional
 5. Exit on Button 1 – Compressor will default back to 'Off'

Repeat steps 1 through 5 for desired relay. To exit 'Test Mode' and return to the Main Menu, press Button 1 three times.

Calibration:

Calibration PDC Software Maintenance:

The PDC Maintenance Position Mode should only be accessed if a chip needs to be replaced in the Hand. Please refer to the 'Trouble Shooting Section' of the Vue 30/40 Manual.

1. Enter on Button 4 – Maintenance 'Off'
2. Press Button 4 – 'Off' flashes
3. Advance on Button 2 – 'On' flashes
4. Save on Button 4 – Hand should extend for access to the Control Board

***** After completion of work in 'Calibration PDC Software Maintenance', ensure that X, Y, Z and Clamp Motors have returned to the 'Home' position - Power down vendor, wait 1 minute then Power on vendor BEFORE closing the outer door. It will perform a Recovery/Discovery automatically. *****



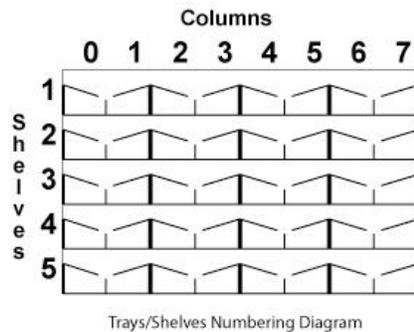
Calibration Discovery:

Please refer to the Levels and explanations listed below:

- Level – 0 We are not doing a ‘Discovery – no motion. No Discovery is required
- Level – 1 Check Physical Shelves against the stored data. If shelf is in stored data, is there a reflector that corresponds to it
- Level – 2 Sets vendor for actual physical locations for trays and shelves

1. Enter on Button 4 – Discovery
2. Enter again on Button 4 – ‘Discovery Level 0’
3. Enter on Button 4 – ‘Level 0’ flashes
4. Advance on Button 2 to desired level
5. Press Button 4 to save
6. If Level 1 or 2 is chosen, the display will read ‘Please close the door’ followed by ‘Press 1 – Accept
7. Press Button 1 to start the Discovery process
8. Vendor will return to ‘Sales Mode’ when Discovery has been completed.

**** Note: Calibration Menus are Password protected. Please contact Technical Service: 1-800-344-7216 for assistance in changing vendor configuration.***



Calibration Discovery Correction:

Allows the user to alter vending positions in X and Y for the entire vendor, a particular shelf or a particular tray set. **This mode is used in Trouble Shooting only.**

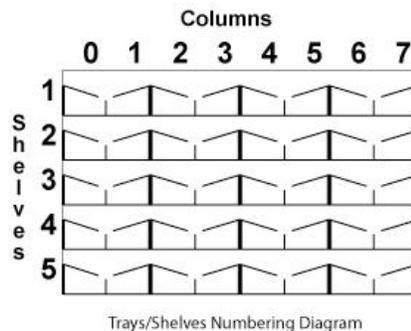


Calibration Test Vend Pos:

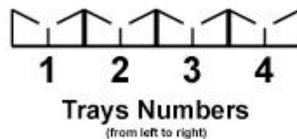
Allows the vendor to do a self-test and change vending positions if it encounters a problem with vending. It can test the entire vendor, a particular shelf or a particular tray set.

1. Enter on Button 4 – Test Vend Pos – Dsbl will display - Dsbl is flashing
2. Advance on Button 2 to choose either All, Tray or ShLf
3. Press Button 4 to ‘save’ setting – Please close the Door followed by:
Press 1 – Accept, 8 – Cancel will display
4. Press Button 1 to begin the test vend process
5. Refer to ‘Calibration Get Failures’ to view the results of this test.

For Shelves and Columns use this diagram:



For Tray Numbers use this diagram:





Calibration Test Vend w/pdt:

Allows the vendor to do a self- test of all positions including running the Hopper Flap and Hopper Bucket.

1. Enter on Button 4 – Calibration – Test Vend w/pdt Dsbl
2. Enter on Button 4 again – Dsbl flashes
3. Advance on Button 2 to All
4. Press Button 4 to ‘save’ setting – Display will read - Please close the Door followed by Press 1 – Accept
5. Press Button 1 to start the Test Vend process

Calibration Get Failures:

While self-testing, the PDC creates a log of errors it encounters. This function allows you to step through these errors. For each location on the shelf ● indicates success while ○ indicates a failure.

Example: | ●●|●●|●●|●●|

1. Press Button 4 to scroll to shelves to view any failures
2. Press Button 1 to exit

Calibration Set # of Trays:

Allows the operator to ‘choose’ the number of ‘Trays’ in the vendor.

1. Enter on Button 4 – ‘Set # of Trays 3, 4 or 5’
2. Enter on Button 4 – ‘3, 4 or 5’ is flashing
3. Advance on Button 2 to desired Tray Setting that matches the vendor
4. Press Button 4 to ‘save’ setting
5. Press Button 1 to send the new setting to the Main Controller. Display will read – Please wait then exit automatically to Calibration – Set # of Trays

***** Number of Trays MUST match the Vendor *****

Calibration Set Z pdt Position:

Allows the operator to adjust the depth that ‘Z’ goes into the vendor to retrieve product.

1. Enter on Button 4 – ‘Set Z pdt Position’. Current position is shown
2. Enter on Button 4 – Current position is flashing
3. Advance on Button 2 to desired product position
4. Press Button 4 to ‘save’ setting
5. Press Button 1 to send the new setting to the Main Controller. Display will read – Please wait then exit automatically to Calibration – Set Z pdt Position



Cash Data:

This Mode allows you to retrieve the total Historical Cash from product purchases.

1. Enter on Button 4 – the non re-settable, Historical Cash Total will scroll
2. Advance on Button 2 to scroll through the shelves
3. Enter on Button 4 to show the columns in the shelves
4. Press Button 1 to exit.

Sales Data:

This Mode allows you to retrieve the total Historical Sales from product purchases.

1. Enter on Button 4 – the non re-settable, Historical Sales Total will scroll
2. Advance on Button 2 to scroll through the selections
3. Enter on Button 4 to show the columns in the shelves
4. Press Button 1 to exit.

Discount Counter:

This Mode will only display when 'Discounts' are used. It allows access to the Sales and Cash Data for discounted vends.

1. Enter on Button 4 – 'Cash Data'
2. Enter again on Button 4 – Display will read 'Cash Data Total' and display the value of all discounts towards paid sales. This total is non re-settable and begins when the 'Discount' feature is enabled.
3. Advance on Button 2 to scroll through the various selections
4. Press Button 1 to exit
5. Advance on Button 2 – 'Sales Data'
6. Enter on Button 4 – 'Sales Data Total' will display as well as the number of discounted sales. This total is non re-settable and begins when the 'Discount' feature is enabled
7. Advance on Button 2 to scroll through the various selections
8. Press Button 1 to exit.



Free Counter:

This Mode will only display when 'Free Vends' were made. It allows the user access to the number of 'Free Sales and Cash Data' lost.

1. Enter on Button 4 – Cash Data total XX.XX, which is the value of the money lost based on the set price. This total is non re-settable and begins when the 'Free Vend Override' is enabled.
2. Advance on Button 2 – 'Sales Data Total X', which is the total number of products dispensed. This total is non re-settable and begins when the 'Free Vend Override' is enabled.
3. Press Button 1 to exit.

Clearing the Cash Data, Sales Data, Discount Counter or Free Counter:

*To reset the individual selection counter, scroll to the selection number, press and hold buttons # 1 and 4 for 3 seconds, **0000 will display**. You can also set 'MIS Auto Reset' to 'On' under 'Configuration'*

Set Price:

This Mode allows you the option to price each selection to the same vend price, or price each shelf, tray or column. (*Refer to diagram on next page*)

To set all selections to a 'single price':

1. Enter on Button 4 – All Selections .XX will display (current vend price)
2. Enter again on Button 4 – .XX (current vend price) will flash
3. Advance on Button 2 to increase the price
4. Press Button 3 to decrease the price
5. Press Button 4 to save change
6. Press Button 1 to exit.

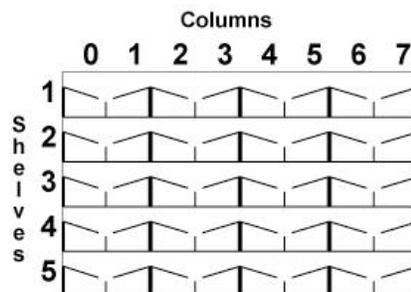


To set price per shelf:

1. Enter on Button 4 – Set Price - Shelf 1
 2. Enter on Button 4 again – Shelf 1 - All Columns displays
 3. Enter on Button 4 – Shelf 1 – All columns XX flashes
 4. Advance on Button 2/ decrease on Button 3 to desired price
 5. Press Button 4 to save change – Shelf 1 – All columns XX
 6. Press Button 1 – Set Price – Shelf 1
 7. Advance on Button 2 – Set Price – Shelf 2
 8. Set prices following steps outlined above for the balance of shelves
 9. Exit on Button 1 twice to return to Set Price
- ** You must price Shelf 6 & 7 although they may not be in the vendor. Otherwise a 99.95 vend price may display. ***

To set price per column:

1. Enter on Button 4 – Shelf 1 – All Columns
2. Advance on Button 2 to begin pricing individual columns
3. Enter on Button 4 – Column 0 and current price flashes
4. Advance on Button 2/ decrease on Button 3 to desired price
5. Press Button 4 to save change
6. Continue as outlined above for all columns on Shelf 1
7. Press Button 1 to exit once all columns on Shelf 1 have been priced.
8. Advance on Button 2 – Shelf 2
9. Price columns as indicated above for Shelves 2 through 7
10. Exit on Button 1 twice to return to Set Price



Trays/Shelves Numbering Diagram



Configuration:

To change individual options for Configuration Settings, enter the option on Button 4. Re-enter on Button 4, 'On or Off' will be flashing. Advance to 'On or Off' on Button 2 and save the change on Button 4. Program each Configuration Option in this manner.

Configuration Options are detailed below:

Multi-Price:

On – Selections may be programmed individually

Off – Single Price based on price of Selection 1

Timing Features:

On - Access to 'Clock Settings' and associated modes

Off – Access is denied

Door Summary:

On - Sales, Cash and Errors are displayed when outer door is opened

Off – Sales and Cash are not displayed, error summary will be

MIS Auto Reset:

On - Pressing the Door Switch will reset individual selection data back to 0

Off – Sales and Cash Data will not be reset by the Door Switch

Consumer Overpay:

On - Money will be accepted when the 'Correct Change Light' is on and there is insufficient coin in the coin tubes.

Off – Exact change only required to make a vend

Save Credit Timer:

On - Credit established will display for 5 minutes only

Off – Credit established will remain until either a vend is made or the coin return is pressed.

Force Vend:

On - The consumer will not be able to deposit money, press the coin return and receive change without attempting a vend first.

Off – Vendor is set as a 'change' machine. Consumer can deposit money, press the coin return and receive change.

Multi-Vend:

On - The consumer may insert sufficient credit to make multiple purchases.

Remaining credit will display until consumer either makes another selection or presses the coin return.

Off – Consumer makes a single purchase and change is returned immediately.



Configuration (Cont.):

Deny Escrow:

On - Validator will stack all bills received

Off – Validator will ‘hold’ the bill in ‘escrow’ until the vend is complete.

if the consumer presses the coin return the ‘bill’ is returned to them.

S/O (Error) Indicator:

On - A small symbol - (♦) will appear in the lower right hand corner of the display

when the vendor detects an error or a sold out column.

Off – The symbol will not appear.

Count by Selection/Price:

Count by Selection – Individual Sales and Cash Data are displayed.

Count by Price – Individual Sales and Cash Data is reported by vend price.

MIS Reset with DEX:

On - Non-Historical MIS Data will reset when a DEX read has been done.

Off – No MIS Data will be reset.

Double Talk: - This is a kit supplied by a third party source**

On - Module will vocalize messages.

Off – Module will not vocalize messages.

Display Scroll:

On - Messages ‘Scroll’ from left to right side of display.

Off – Messages do not scroll.

Display Temperature:

Off – Cabinet temperature will not display.

Ref – Internal Refrigeration Temperature will display as ‘Refrigeration Temperature’.

Cbt – Internal Cabinet Temperature will display as ‘Cabinet Temperature’. **

** Note: Requires Temperature Lockout Kit in order to display

Vend Protect:

On – The ‘Hand’ will stay next to the flap until product is removed/ bucket closes.

Off – The ‘Hand’ will return to the ‘Home’ position after product is delivered to the vend flap.

Door Closed Password:

Allows the operator to set a password to access Sales Data when the door is closed. **This function does not work if a vend price is set at 0.00 **

1. Enter on Button 4 – current ‘Password’ will display with the 1st digit flashing indicating that it is ready to be edited
2. Press Buttons 2 and 3 to change the digits. NOTE: Valid digits are 1 through 6. The Password 0000 will disable this feature.
3. Press Button 4 to save digit and advance to the next
4. Press Button 4 after 4th digit is assigned – Door Closed Password will display

** Do not close door prior to programming all 4 digits of the password.



Set Language:

The current Languages available for programming are: English, Spanish and French.

1. Enter on Button 4 – current language will display
2. Enter on Button 4 again – current language flashes
3. Advance on Button 2 to desired language
4. Press Button 4 to save
5. Press Button 1 to exit.

Set Clock:

When the 'Timing Features' in Configuration Mode is turned 'On', this Clock can be set.

1. Enter on Button 4 at Set Clock – Enable Off will display (If no prior programming was done)
3. Enter on Button 4 – Off will flash
4. Press Button 2 to advance Off to On
5. Press Button 4 to save setting
6. Advance on Button 2 – 'Daylight Savings'
7. Enter on Button 4 – current setting will display
8. Press Button 4 – current setting flashes
9. Advance on Button 2 to desired setting
10. Press Button 4 to save setting
11. Press Button 1 to exit Daylight Savings
12. Advance on Button 2 - MM/DD/YYYY HH:MM will display
13. Enter on Button 4 – MM flashes (month)
14. Advance on Button 2 to correct month
15. Press Button 4 to 'save' – DD flashes (day)
16. Advance on Button 2 to correct day
17. Press Button 4 to 'save' – YYYY - with YY flashing (last 2 digits of year)
18. Advance on Button 2 to correct year
19. Press button 4 to 'save' – HH flashes (hour)
20. Advance on Button 2 to correct hour
21. Press Button 4 to 'save' – mm flashes (minutes)
22. Advance on Button 2 to correct minutes
23. Press Button 4 to save setting – MM/DD/YYYY HH:MM will display
24. Press Button 1 to exit - Set Clock



Lighting:

‘Timing Features’ in Configuration Mode must be turned ‘On’ to access this feature. You have the option to turn the lights or LED off once during a 24-hour period for energy conservation. The options available are Cabinet and LED.

Example:

Lighting Mode – Enable On/ Off
Lighting – Cabinet
Start Time 1 – Start Day 1 – Mon-Sun/Everyday
Start 1 hh:mm
Stop Time 1 – Stop Day 1 – Mon-Sun/Everyday
Stop 1 hh:mm

Lighting – LEDs
Start Time 2 – Start Day 2 – Mon-Sun/Everyday
Start 2 hh:mm
Stop Time 2 – Stop Day 2 – Mon-Sun/Everyday
Stop 2 hh:mm
* On – associated with a programmed start/stop
* Off – not associated with a programmed start/stop

1. Press Button 4 – ‘Lighting – Mode Enable Off (if no prior program was set)
2. Press Button 4 – Off is flashing
3. Advance on Button 2 – On
4. Press Button 4 to save setting – Lighting – Mode Enable On
5. Press Button 4 to ‘save’
6. Advance on Button 2 – Lighting Cabinet
7. Advance again on Button 2 – Lighting LEDs



To Set Lighting Cabinet or Lighting LEDs:

1. Press Button 4 to enter – Start Time 1(Lighting) or Start Time 2 (LEDs)
2. Press Button 4 again – Start Day 1 or 2 – mon-sun-everyday Off/On
3. Press Button 4 again – Off/On flashes
4. Press Button 2 to scroll between On/Off
5. Press Button 4 to save setting
6. Press Button 1 - Start Day 1 or 2
7. Advance on Button 2 - Start 1: 08:00 (if no prior programming was set – hh:mm)
8. Enter on Button 4 at ‘Start 1 or 2 - the 08 flashes (hour)
9. Advance on Button 2 to desired setting
10. Press Button 4 to save – :00 begins flashing (minutes)
11. Advance on Button 2 to desired setting
12. Press Button 4 to save setting – Start 1 or 2 and hh:mm you programmed will display
13. Press Button 1 - Start Time 1 or 2
14. Press Button 2 to advance to Stop Time 1 or 2
15. Press Button 4 – Stop Day 1 or 2
16. Press Button 4 – Stop Day 1 or 2 – mon-sun-everyday Off/On
17. Repeat above steps for Stop Time 1 or 2

Refrigeration:

If ‘Timing Features’ in Configuration Mode are ‘Off’, you will only have access to the following features:

Set point

Sensor Reading

Degree X – Celsius or Fahrenheit

Fan Default

Periodic Defrost – On/Off

When Timing Features is set on in Configuration, you can raise the cabinet temperature 18 °F/ 4°C twice during a 24 hour period for energy conservation.



Refrigeration:

1. Enter on Button 4 – ‘Set Point’
2. Enter on Button 4 – current ‘Set Point’ will display – (Factory setting is 36°F/2°C)
3. Press Button 4 – current temperature will flash
4. Press Button 2 or 3 to scroll through the following settings:

Temperature setting	32	33	34	35	36	37	38	39	40
Cut-in Temperature (F)	34	35	36	37	38	39	40	41	42
Cut-out Temperature (F)	31	32	33	34	35	36	37	38	39
Nominal Temperature (F)	32	33	34	35	36	37	38	39	40
Nominal Temperature ©	0	0.5	1	1.5	2	2.5	3	3.5	4

5. Press Button 4 to ‘save’ desired setting
7. Press Button 1 to exit – Set Point
8. Advance on Button 2 – Sensor Reading
9. Press Button 4 – Current reading in either F/C will display – must be set as Ref in Configuration first.
10. Press Button 1 – Sensor Reading
11. Advance on Button 2 – Degree F/C
12. Enter on Button 4 – current setting flashes
13. Press Button 2 to scroll between F/C
14. Press Button 4 to save desired setting

Fan Default:

Default Mode: Fan on/off behaves in same respect as the compressor.

Mode 1: Fan is time delayed with compressor cut in/cut out

1. At cut in, fan will come on 1 minute after compressor turns on
2. At cut out, fan will continue to run 1 minute after compressor is off
3. Fan off with door switch activation



Periodic Defrost:

1. Press Button 4 – On/Off
2. Press Button 4 – On/Off flashes
3. Advance on Button 2 to desired setting
On – The vendor will defrost every 6 hours for 30 minutes. This feature is used in extremely high humidity environments.
Off – The vendor will not defrost every 6 hours.
4. Press Button 4 to ‘save’ setting
5. Press Button 1 to exit

When ‘Timing Features’ in Configuration are turned ‘On’, the following Modes are accessible:

Refrigeration – Enable Timer On/Off
Start Time – Start Day 1/2 – Mon-Sun/All
Start hh:mm
Stop Time – Stop Day 1/2 – Mon-Sun/All
Stop hh:mm

Enable Timer:

1. Press Button 4 – On/Off flashes
2. Advance on Button 2 to desired setting
3. Press Button 4 to ‘save’ setting
4. Press Button 2 – Start Time 1. Time Refrigeration turns off/begin conservation
5. Press Button 4 – Start Day 1
6. Press Button 4 – current setting flashes
7. Press Button 2/ 3 to scroll through days of the week or ‘All’
8. Press Button 4 – On/Off flashes
9. Advance on Button 2 to desired setting
10. Press Button 4 to ‘save’ setting
11. Press Button 1 to exit – Start Day 1
12. Press Button 2 to advance to Start 1 hh:mm
13. Press Button 4 at Start 1 hh:mm – hh flashes
14. Press Button 2 to set the hh
15. Press Button 4 to ‘save’ setting – mm flashes
16. Press Button 2 to set: mm
17. Press Button 4 to ‘save’ setting
18. Press Button 1 to exit – Start Day 1
19. Advance on Button 2 – Stop Day 1
20. Follow the steps outlined above to complete Stop Time 1, Start Time 2, Stop Time 2
21. Press Button 2 to advance



TempLO (Temperature Lock Out):

1. Enable timing feature in configuration
2. Advance on button 2 to TempLO shlf 1
3. Press Button 4 – Disable will flash
4. Advance on Button 2 – Enable
5. Press Button 4 to ‘save’ setting
6. Continue in above manner for all shelves associated with Temperature Lockout

Note: The Temperature Lockout Feature (TempLO) requires an additional temperature sensor connected at the top left on the inside of the cabinet. When the cabinet temperature is above 41°F/ 3.5 °C for more then 15 minutes, the vendor will shut down any shelves associated with the Temperature Lockout Feature.

Sales Block: (8 Blocks are available in this Mode)

Sales Block allows the operator to turn Selections On/Off at 8 intervals during a 24-hour period. Times must not overlap. You must enter the following information:

- Selections – the selection buttons that will be disabled during the blocked time
 - Start Time – the time selections will be ‘Off Line’
 - Start Days – the days selections will be ‘Off Line’
 - Stop Time – the time selections will turn back ‘On’
 - Stop Days – the days selections will turn back ‘On’

Sales Block 1 – 8 Cont’d:

Sales Block 1:

1. Press Button 4 – Enable On/Off, Light
 - Enable Off – Block Function is disabled
 - Enable On – Block Function is enabled
 - Enable Light – Block Function is enabled and lights are off when blocking occurs
2. Press Button 4 – On/Off Light flashes
3. Press Button 2 to advance to desired setting
4. Press Button 4 to ‘save’ setting – your choice will display
5. Press Button 2 to advance to – Selections



Choose Selections:

1. Press Button 4 at Selections – All Selections On/Off will display
2. Press Button 4 – On/Off flashes
3. Advance on Button 2 to desired setting
4. Press Button 4 to 'save' setting
5. Press Button 1 to exit

Set all Selections:

1. Press Button 4 – All Selections On/Off
2. Press Button 4 – On/Off flashes
3. Press Button 2 to advance to desired setting
4. Press Button 4 to 'save' setting
5. Press Button 1 to exit – Selections

Selections per Shelf:

1. Press Button 4 – All Selections On/Off
2. Press Button 2 to advance to desired shelf
3. Press Button 4 – All Columns
4. Press Button 4 again – On/Off flashes
5. Press Button 2 to advance to On/Off
6. Press Button 4 to 'save' setting
7. Press Button 1 twice to exit – Selections

Set Columns:

1. Press Button 4 – All Selections On/Off
2. Press Button 2 to advance to desired shelf
3. Press Button 4 – All Columns
4. Press Button 2 to advance to desired Column
5. Press Button 4 – On/Off flashes
6. Press Button 2 to advance to desired setting
7. Press Button 4 to 'save' setting
8. Press Button 1 twice to exit



Start Time: (Beginning of Blocking Period)

1. Press Button 2 – Start Time
2. Press Button 4 – Start Day
3. Press Button 4 – Every Day
4. Press Button 2 or 3 to select days or Every Day
5. Press Button 4 to change the status of the days – On/Off flashes
If the status is 'On', product delivery is blocked
If the status is 'Off', product delivery is normal
6. Press Button 2 to change status
7. Press Button 4 to 'save' setting
8. Press Button 1 – Start Day
9. Press Button 2 – Start hh:mm
10. Press Button 4 – hh (hour setting) flashes
11. Press Button 2 to advance to desired Start Hour. (Military Time)
12. Press Button 4 to 'save' setting -: mm flashes
13. Press Button 2 to advance to desired minutes
14. Press Button 4 to 'save' setting
15. Press Button 1 to exit and return to Start Time

Stop Time: (End of Blocking Period)

1. Advance on Button 2 – Stop Time
2. Press Button 4 – Stop Day
3. Press Button 4
4. Press Button 2 or 3 to select days or Every Day
5. Press Button 4 to change the status of the days – On/Off flashes
If the status is 'On', product delivery is blocked
If the status is 'Off', product delivery is normal
6. Press Button 2 to change status
7. Press Button 4 to 'save' setting
8. Press Button 2 – Stop hh:mm
9. Press Button 4 – hh (hour setting) flashes
10. Press Button 2 to advance to desired Start Hour. (Military Time)
11. Press Button 4 to 'save' setting -: mm flashes
12. Press Button 2 to advance to desired minutes
13. Press Button 4 to 'save' setting
14. Press Button 1 to exit and return to Stop Time
15. Pressing Button 1 again will return the operator to Sales Block 1-8 mode



Discount:

This feature permits the operator to program the vendor to discount product once during a 24-hour period. To program a Discount, you must enter the following information:

Discounted Selection(s) – Selection(s) offered at a discounted price

Start Time – Time the Discount begins

Start Day(s) – Days the Discount is offered

Stop Time – Time(s) Discount ends

Stop Day – Day(s) the Discount ends

Amount – Amount subtracted/discounted from original vend price

Choose Selections:

1. Press Button 4 – Enable On/Off
Enable Off – Discount function is disabled
Enable On – Discount function is enabled
2. Press Button 4 – Off flashes
3. Press Button 2 to select desired setting
4. Press Button 4 to 'save' setting – Enable 'On' will display
5. Press Button 2 – Discounted Selection

Set Discount for 'All' Selections:

1. Press Button 4 – Discount all selections 'Off'
3. Press Button 4 – 'Off' flashes
4. Press Button 2 to Advance to 'On'
5. Press Button 4 to 'save' setting
6. Press Button 1 to exit



Set Discounted Selections per Shelf:

1. Press Button 4 – Discount All Selections ‘Off’
2. Advance on Button 2 to desired shelf number
3. Press Button 4 to enter – Shelf X - All Columns ‘Off’
4. Press Button 4 – On/Off flashes
5. Advance on Button 2 to desired setting
6. Press Button 4 to ‘save’ setting
7. Press Button 1 to exit

Start Time:

1. Advance on Button 2 – Discount Start Time
2. Press Button 4 – Discount Start Day
3. Press Button 4 – Mon-Sun/Everyday
4. Press Button 4 again – Everyday flashes
5. Advance on Button 2 to desired day
6. Press Button 4 – On/Off flashes
7. Advance on Button 2 to change current status
8. Press Button 4 to ‘save’ setting
9. Set balance of Selections in manner described above
10. Exit on Button 1 – Discount Start Day
11. Advance on Button 2 – Start hh:mm (hour/ minutes)
12. Press Button 4 – hh flashes
13. Advance on Button 2 to desired setting
14. Press Button 4 to ‘save’ setting :mm flashes
15. Advance on Button 2 to desired setting
16. Press Button 4 to ‘save’ setting
17. Press Button 1 to exit – Start Time



Stop Time:

1. Advance on Button 2 – Stop Time
2. Press Button 4 – Stop Day
3. Press Button 4 – mon-sun/everyday
4. Press Button 4 again – everyday flashes
5. Advance on Button 2 to desired day
6. Press Button 4 – On/Off flashes
7. Advance on Button 2 to change current status
8. Press Button 4 to ‘save’ setting
9. Set balance of Selections in manner described above
10. Exit on Button 1 – Stop Day
11. Advance on Button 2 – Stop hh:mm (hour/ minutes)
12. Press Button 4 – hh flashes
13. Advance on Button 2 to desired setting
14. Press Button 4 to ‘save’ setting :mm flashes
15. Advance on Button 2 to desired setting
16. Press Button 4 to ‘save’ setting
17. Press Button 1 to exit – Stop Time

Set Discount Amount:

The Discount is the amount being subtracted from the regular vend price.

1. Press Button 4 - .00 flashing
2. Advance on Button 2 to desired discount amount
3. Press Button 4 to ‘save’ setting
4. Press Button 1 to exit – Discount Amount



Override: (Optional Kit)

The Key Switch Override Kit allows the operator to 'bypass without removing' Timing Features the operator has programmed in the controller.

- On – Key Switch will override these Timing features.
- Off – Key Switch will not override these Timing features.

The following Timing features can be programmed to the key switch.

- Free Vend – On/Off
- Sales Blocking – On/Off
- Discount – On/Off
- Light Timing – On/Off
- Refrigeration – On/Off

Free Vend:

1. Enter on Button 4 – On/Off flashes
2. Advance on Button 2 to desired setting
3. Press Button 4 to 'save' setting
4. Press Button 1 to exit – Free Vend

Program Sales Blocking, Discount, Light Timing and Refrigeration in the manner described above. Press Button 1 to exit.



Custom Message:

The custom message feature allows the operator to program a 2 line X 20 character message.

Note:

1. Press Button 1 to make a space between words.
2. The message cannot be saved until all the characters on the top line have been entered.

1. Press Button 4 at Custom Message – Enable On/Off
2. Press Button 2 – On/Off flashes
3. Advance on Button 2 to On
4. Press Button 4 to ‘save’ setting
5. Advance on Button 2 – current messages displays
6. Press Button 4 – 1st character flashes
7. Press Button 2 to advance to desired character
8. Press Button 4 to ‘save’ character – immediately advances to next character
9. Continue setting message using steps outlined above
10. Press and hold Button 1 for 3 seconds to save the message and exit mode

Return:

Exits the programming mode and returns the vendor to stand-by



NOTES