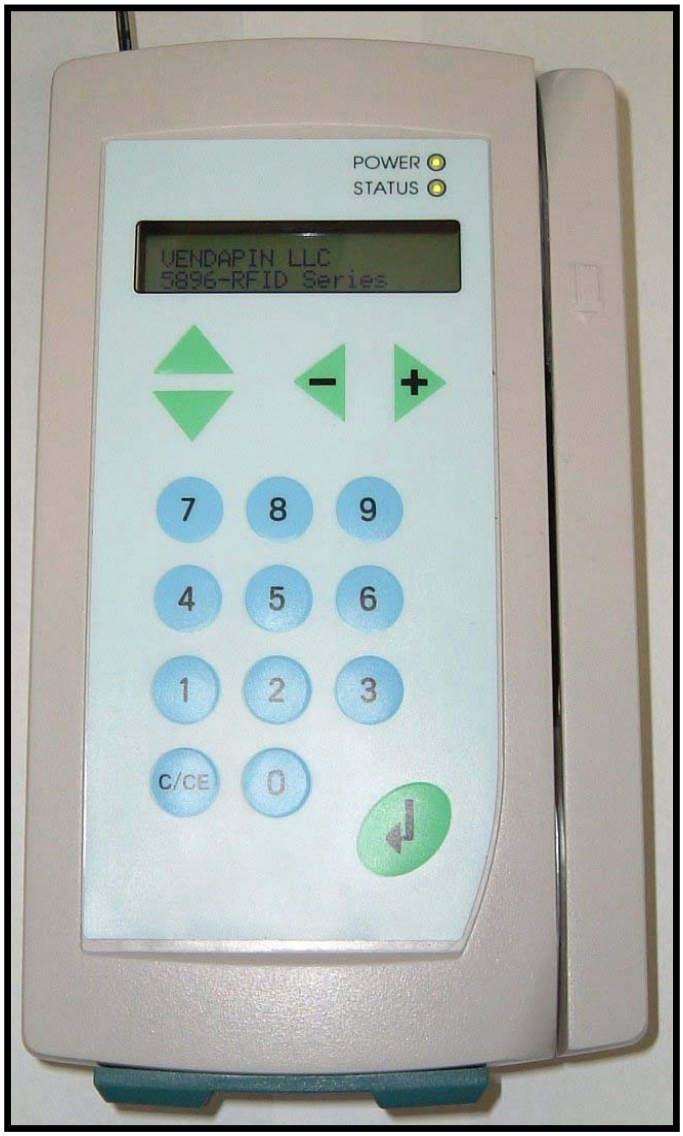
User Guide



5896 Raptor II SERIES
Pulse Vending Station

Original Rev Date: 04-23-10, Last Rev Date: 30-09-11

Table of Contents

5896-Raptor II Series Pulse Vending Station Operator's Manual

Printed in the U.S.A.
Part number: 400588-002 (current revised: 30-09-2011)

Notice

FCC Warning

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions in this manual may cause interference to radio communications.

This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at her/his own expense will be required to take whatever measures may be required to correct the interference.

Information to User

This equipment must be installed and used in strict accordance with the manufacturer's instructions.

VENDAPIN is not responsible for any radio or television interference caused by unauthorized modification of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by VENDAPIN. The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

Two-Year Warranty and Service Policy

VENDAPIN LLC. warrants to the purchaser that this VENDAPIN product, hereinafter called "the unit," is free from defects in materials and the workmanship for a period of two years from the date of purchase. If any such defect is discovered within the first 90 days of the warranty period, VENDAPIN LLC. will repair or replace the unit free of charge. If any such defect is discovered after 90 days and up to the end of the one-year warranty period, VENDAPIN LLC. will repair the unit free of charge plus the cost of shipping. All warranty repair and replacement actions are contingent on verification of the defect(s) or malfunction(s) and upon prepaid delivery of the unit to VENDAPIN LLC., 838 E. Jefferson Street, Brooksville, Florida 34601 by parcel post, common carrier, UPS, Fed Ex, DHL or other commercial means. This warranty does not apply to normal wear, to tampering or alterations resulting in cracked or broken components, or to units damaged by voltage, excessive heat, cold or moisture.

To preserve your rights under the warranty, you must provide proof of purchase for the returned unit. RETURNING THE PRODUCT REGISTRATION "CUT-OUT" CARD enclosed in this manual with the new unit will also register the warranty by serving as proof. Otherwise, a copy of the sales invoice showing the serial number of the returned unit must accompany the unit as proof of purchase.

If your unit is delivered to VENDAPIN LLC lacking proof of purchase, and we are unable to otherwise verify date of purchase, we will assume the purchase date of the unit was prior to the two-year warranty period. It will then be serviced under the terms of VENDAPIN LLC.'s Service Policy.

Our sole and exclusive liability for defects in materials and workmanship shall be limited to repair or replacement of the unit at our service center and we shall not be liable for incidental, contingent, or consequential damages.

This warranty does not obligate us to bear any of the costs of transportation charges in connection with repair or replacement of the unit or any defective parts of the unit.

This warranty is invalid if the damage or defect to the unit is caused by accident, Acts of God, customer abuse, misuse, unauthorized alteration or repair, or vandalism by third parties.

This warranty is made in lieu of any other expressed warranty and except for the foregoing warranty, which is exclusive, there is no other expressed warranty being made.

This warranty gives you specific legal rights. You may have other rights, which vary according to the state, or country in which the unit was sold.

Disclaimer

This equipment is serviceable by a trained and qualified technician.

Parts and Service Policy

This policy requires you to ship prepaid to us, the unit or major components of the unit, under a Return Authorization for repair. **VENDAPIN LLC shall not be obligated to service or supply parts for any unit after seven years from date of purchase.**

Charges for return shipping, parts and service will be incurred, as applicable, at the prevailing rates.

VENDAPIN LLC will enclose a copy of the return authorization (RA#) with your unit. This authorization details the work performed and the costs incurred. Please refer to the RA# in future communications with VENDAPIN LLC about this unit.

Currency acceptors, credit card accessories and standard coin changers are not manufactured or modified by VENDAPIN LLC. These accessories are not included in VENDAPIN LLC's Warranty or Service policy. Currency acceptors, credit card readers and changers not manufactured or modified by VENDAPIN LLC are warranted and serviced directly by their manufacturer.

This policy is for coverage within the continental U.S. only.

Return Authorizations

All units returned to VENDAPIN LLC must be shipped with a return authorization number (RA#) affixed to the outside of the shipping container and addressed to:

Technical Service Department

VENDAPIN LLC.
838 E. Jefferson Street
Brooksville, Florida 34601
Tel: 352-796-2693

VENDAPIN LLC reserves the right to refuse any incoming shipment not marked with an RA# on the outside of the shipping container.

VENDAPIN LLC will issue a Return Authorization Number upon receiving a written request at the above address or a request by phone at +(1) 352-796-2693 (customers should ask for the Technical Service Hotline). Please provide the **model number** and **serial number** of the unit or the unit that contained the component(s) you wish to return.

For non-warranty service, please be prepared to supply a purchase order, VISA, MasterCard or American Express authorization, or make other payment arrangements as required. Within the continental United States you may request that your serviced unit be returned to you on a C.O.D. basis.

About the Product

What is the Pulse Vending Station?

The 5896-Raptor II Series Pulse Vending Station is a vending device that works in cooperation with any other device to control access to pools, door locks, or any other device that can be controlled with a relay closure. Customers use VendaCards to pay for their products or services. The Pulse Vending Station is part of VENDAPIN's Raptor II series, which encompasses a full line of vending products.

Vend price structure

The Pulse Vending Station supports up to eight vend prices based on products or services patrons pay for with VendaCards.

System features

Power failures restore

In the event of a power failure during a transaction, a power-saving feature saves all data and restores them when power is restored.

Transaction history

The Pulse Vending Station offers an extensive capability for tracking vending activity. History meters can be viewed using the VendaCard MANAGER card or the integrated web server via web browser.

Application programming interface (API)

The Raptor II family of Pulse Vending Stations supports an API command set through an on-board USB, RS-232 serial port or Ethernet port that allows you to set parameters, and download meters right from your PC. The API allows the terminal to communicate with a PC while connected to a pulse vend device. This makes it possible to:

- Use the Pulse Vending Station with many of the pulse vending devices available today.
- Use 5896 systems as the VendaCard payment device attached to the host system.

Getting Started

Setting up the unit

Connecting the unit to the host device

Installation instructions tailored to the product you ordered should have been included with the shipment of your unit(s).

Powering up the Pulse Vending Station

Plug the 5v DC power supply into the Pulse Vending Station. Then plug the power supply into a wall outlet. The unit cycles through its boot-up sequence, displaying the system version, software version, serial number, and location name. If you ever need to call or email VENDAPIN, LLC customer service, you may be asked to provide this boot-up information. Please note the displayed numbers and write them in the spaces provided on the last page of this manual.

Version

This is the version of the software that has been issued with your unit.

Location

Each unit can be configured with the location name. The location name is displayed at boot-up. When the unit is configured at the factory, this parameter is set to "Front Lobby #1". You should assign each machine at your site a unique location name. This location name is useful when printing the receipts. For information on modifying parameters, see *Programming The Unit* section.

Custom Messages

You can customize the unit's display with the Custom Messages settings. The custom messages can be changed using either the VendaCard Manager card or a web browser connected to the on-board Raptor II built-in web server via Ethernet network.

Programming the unit

Modifying parameters

A set of programming parameters is available to customize the operation of the VENDAPIN, LLC 5896 Pulse Vending Station. When the unit is delivered from the factory, the parameters are in their default state. There are two methods you can use to program the unit:

1. **VendaCard Access.** Use the five (5) Control Cards to program the 5896. The five control cards are **CODE, MANAGER, PASS, FORMAT,** and **POS**. Please see *Using the VendaCard Control cards to set the system parameters* chapter for details.

Figure 1
Front view of the VendaCard

2. **Web Access.** Use a web browser to connect to the 5896 via network to edit the parameters in real time. Please see *Using a web browser to set the system parameters* chapter for details.

Figure 2
Raptor II Web Access Showing the List of Menus Screen-shot

Configuring the unit for pulse vending

Programming parameters are grouped under menus specific to the type of vending operation they apply to. When you enter program mode, you're presented with the top-level menus (using *web browser*), in the order shown in Table 1. This method allows you to skip over menus that aren't applicable to your operation, and to locate specific parameters quickly.

System Menu	Pulse Vending Type	Description
Home	✓	Current System Status Home – Web
Users	✓	Login accounts for Raptor II Web server
General	✓	Both print and copy vend operations
Readers	✓	Print vend operations
Cash-Credit Card Vend Prices		Not applicable to 5896 Vending Unit
VendaCard System Settings – Vend Prices	✓	Copy vend operations (includes timing menu and price menu) for VendaCard debit cards
VendaCard Card Read / Format	✓	Shows total number of VendaCard uses and Allows user cards to be formatted (created)
Timing	✓	Timing Operations for the 8 device channels
Product Names	✓	Name of products 1-8 displayed on the LCD, when they are selected
Parallel Bill/Coin		Not applicable to 5896 Vending Unit
Coin Changer		Not applicable to 5896 Vending Unit
Coin Changer Tubes		Not applicable to 5896 Vending Unit
Coin Currency Conv.		Not applicable to 5896 Vending Unit
Bill Validator		Not applicable to 5896 Vending Unit
Bill Currency Conv.		Not applicable to 5896 Vending Unit
System LCD Msgs	✓	System LCD Messages parameters
Status LCD Msgs	✓	Status LCD Messages parameters
Error LCD Msgs	✓	Error LCD Messages parameters
Receipt Printer	✓	Receipt Printer parameters
Net Settings	✓	Network settings
Resettable Meters	✓	Resettable counters/meters
Non-Resettable Meters	✓	Non-resettable counters/meters
System Stats	✓	System Status counters/meters
TCP/IP Stats	✓	Network Status of IP, ICMP, and TCP packets
Log Out	✓	Log Out of 5896 Web Server

Table 1

Parameter listing

Table 2 through Table 17 lists the parameters in the order they appear on the unit, and also gives the acceptable range of values and default setting for each parameter.

Parameter	Description	Default	Range
Home	Main system status	N/A	
dd.mm.yyyy hh:mm:ss	Current Date/Time Read	For viewing only	N/A
System Mode	Firmware Class	For viewing only	N/A
Version	Software Version	For viewing only	N/A
S/N	Serial Number	For viewing only	N/A
Location	Name of location where the system is located. (Editable under General)	For viewing only	N/A
Status	Displays the system status – ready/disabled/device/etc.	For viewing only	N/A
Last Transaction	Displays the last vend transaction made by the pulse vend system.	For viewing only	N/A
Last Channel Selection	Displays the last channel transaction made by the pulse vend system	For viewing only	N/A
Last Total Paid	Displays the last total paid from vend transaction	For viewing only	N/A
Last Payment Type	Displays the last payment used. Three types of payments: Cash, Credit Card or Debit/PIN.	For viewing only	N/A
Escrow/Balance	Displays the current escrow/balance	For viewing only	N/A
Last No-Activity Escrow	Displays the last no activity escrow and time-date stamp that the amount was removed from the current escrow/balance.	For viewing only	N/A
Channel#	Channel number to add credit to	1	1 through 8
Add Credit	The add or credit can be posted to escrow/balance via web browser. Useful for front desk lobby when the customer reported that the escrow was emptied, or problems with pulse vend that would require credit to be made.	N/A	0-65000
Reset Channel	Resets the selected Channel#	Unchecked	Checked/ Unchecked
Print Last Receipt	Prints the last receipt – useful if the printer has problems that has been corrected, and would need to print the last receipt as needed	Unchecked	Checked/ Unchecked

Table 2

Parameter	Description	UserName	Range
Users	Top level menu settings for user accounts, used for web access only	N/A	N/A
Manager	Sets the manager name/password	VENDAPIN	vendapin
Clerk	Sets the clerk name/password	VENDAPIN	password

Table 3

Parameter	Description	Default	Range
General	Top-level system settings	N/A	N/A
Location	Edits the location name	"Front Lobby #1"	Up to 20 chars
No Activity Timeout	Sets the length of time the unit waits before taking action when a patron has left money.	60 (seconds)	15-32000 (secs)
No Activity Payout	Can be set to pay out change when the no activity timer expires.	Unchecked	Checked / Unchecked
Interface	Type of user interface for PulseVend. **Note:** for 5896 vending unit, only the NTS Keypad is used.	NTS Keypad	AutoVend(1 Channel Only), NTS Keypad, Storm Keypad, 8 Push Buttons
Currency Symbol	Sets the currency symbol based on 8 different symbols: Dollar ($),British Pound (£), Yen (¥), Euro (€), Chile (¢), Thailand Baht, Dinar (د), Aruba Florin (ƒ) or No Currency Sign Symbol	Dollar ($)	Dollar ($) - No Currency Sign Symbol
International Currency Code	Sets the 3 letters international currency code (ISO 4217) to display the 3 letters at the end of the escrow/balance value to appear on LCD screen or print receipt.	USD	Up to 3 chars.
Pre-Cursor	Sets the currency pre-cursor that will appear on the escrow/balance value.	Period (.)	Period (.), Comma(,) or None
Max Cash	Sets the maximum cash value.	9999 (99.99)	65535 (0 – 655.35)
Free Change	Sets to allow the system to dispense change (coin changer) without making any vend transactions.	Unchecked	Checked/ Unchecked
Auto Change	Can be set to dispense change (coin changer) after vend on cash transactions.	Unchecked	Checked/ Unchecked
Coin Return	Can be set to dispense change when the pulse vend times out	Unchecked	Checked/ Unchecked
Disable this unit	Sets the system to go into enabled or disabled	Unchecked	Checked/ Unchecked
Date/Time	Sets date and time	Current Date-Time	Date-Time
API RS232/USB Baud Rate	Sets the baud rate for the serial and USB ports	9600	9600, 19200
Restore to Factory Default	Restores the settings to factory default settings	Unchecked	Checked or Unchecked

Table 4

Parameter	Description	Default	Range
Readers	Top level settings for readers	N/A	N/A
MDB Credit Card Reader Settings	Sub-level settings for MDB cashless/credit card reader	N/A	N/A
Status	Displays the reader status	For viewing only	Enabled/Disabled
Level	Displays the MDB level	0	N/A
Scale	Displays the MDB Scale	0	N/A
Timeout	Displays the MDB Timeout	10	N/A
Recently used	Displays the last transaction value	For viewing only	N/A
Enable MDB Credit Card Reader	Sets to turn on/off the MDB cashless/credit card reader	Unchecked	Checked/ Unchecked
Maximum Pre-Authorized Value	Sets the specific maximum pre-authorized value	25.00 (2500)	1-65535
Minimum Purchase Value	Sets the specific minimum for transactions	0	1-65535
LCD Msg for Min Purchase Value	Sets the LCD display message for minimum purchase value with credit cards	Min Purch Value:	Up to 40 characters
Reset Credit Card Reader	Sets to re-initialize the MDB reader	Unchecked	Checked/ Unchecked

Table 5

Parameter	Description	Default	Range
Prices	Top level settings for prices	N/A	N/A
Prices 1-8	Sets the Cash / Credit Card prices based on the Pulse Interface Mode: - AutoVend (1 device only) - NTS Keypad (up to 8 devices) - Storm Keypad (up to 8 devices) - 8 Push Buttons (up to 8 devices)	**Prices** 1 – 100 2 – 200 3 – 300 4 – 400 5 – 500 6 – 600 7 – 700 8 – 800	1-65535 **Note:** Every price is based on cents currency system. For example: 10 = 10 cents 100 = $1.00
Total Paid	Edits the total paid message that will appear on the receipt to be printed to printer.	"Total Paid"	Up to 40 characters
Payment Type	Edits the payment type message that will appear on the receipt to be printed to printer.	"Payment Type"	Up to 40 characters

Table 6

Parameter	Description	Default	Range
VendaCard System Settings - Vend Prices	Top level settings for prices	N/A	N/A
Site Code	Site (location) code for VendaCard system	N/A	Any eight letter UPPERCASE word
Access Group	VendaCard security feature in case control cards are lost/stolen	0 0	0 - 255
Enable RFID Reader	Check box to enable the use of the VendaCard reader	Checked	Checked or Unchecked.
Auto-Reset Card	Resets the VendaCard system after each transaction with a Card	Checked	Checked or Unchecked.
Card Timeout	Amount of time in seconds that the VendaCard will timeout if a transaction is not made	3600	0-65535 Seconds
Vend Prices using VendaCard 1-8	Sets the price based on the Pulse Interface Mode: - AutoVend (1 device only) - NTS Keypad (up to 8 devices) - Storm Keypad (up to 8 devices) - 8 Push Buttons (up to 8 devices)	**Prices** 1 – 100 2 – 200 3 – 300 4 – 400 5 – 500 6 – 600 7 – 700 8 – 800	1-65535 **Note:** Every price is based on cents currency system. For example: 10 = 10 cents 100 = $1.00

Table 7

Parameter	Description	Default	Range
VendaCard Read-Format	Top level settings for reading and formatting VendaCards	N/A	N/A
VendaCard RFID Card Data Read	Sub-level settings for reading VendaCard RFID data	N/A	N/A
SiteCode/Created Date	Site (location) code for the VendaCard inserted. Date the VendaCard was formatted	For viewing only	N/A
Group Level	Security encoded on the VendaCard	For viewing only	N/A
Total Card Uses	Total number of times the VendaCard was formatted	For viewing only	N/A
Current Escrow/Balance	Balance currently on the VendaCard	For viewing only	N/A
Format VendaCard RFID Cards	Sub-level settings for formatting VendaCard RFID data	N/A	N/A
Access Group Level	Security code to be encoded on the VendaCard	0 0	0 - 255
Escrow	Escrow/Balance to be encoded on the VendaCard	0	0 -9999 **Note:** Every price is based on cents currency system. For example: 10 = 10 cents 100 = $1.00
# of VendaCards to Format	Total number of VendaCards you wish to format	10	0 - 9999
Cancel VendaCard Card Format Now	Stop formatting VendaCards	Unchecked	Checked / Unchecked

Table 8

Parameter	Description	Default	Range
Timing	Top level settings for timing parameters	N/A	N/A
Mode	Selects the FDI (Foreign Device Interface) to use: - AutoVend (1 device only) - NTS Keypad (up to 8 devices) - Storm Keypad (up to 8 devices) - 8 Push Buttons (up to 8 devices)	NTS Keypad	AutoVend, NTS Keypad, Storm Keypad, 8 Push Buttons
Channel Timer	Minimum debit pulse length for input pulses (all FDI modes)	1250mS	1-32000 milliseconds

Table 9

Parameter	Description	Default	Range
Product Name Messages	Top level settings for Product Names displayed on the LCD	N/A	N/A
Product Name 1 - 8	Sets the Product Name LCD messages to be displayed when a product is selected	**Product Name** 1 – Product Name 1 2 – Product Name 2	Up to 20 characters

		3 – Product Name 3 4 – Product Name 4 5 – Product Name 5 6 – Product Name 6 7 – Product Name 7 8 – Product Name 8	

Table 10

Parameter	Description	Default	Range
System LCD Messages	Top level settings for System LCD Messages	N/A	N/A
1st line Idle state	Sets the 1st line – idle message, state 1	"VENDAPIN LLC"	Up to 20 characters
2nd line Idle state	Sets the 2nd line idle message, state 1	"PulseVend Series"	Up to 20 characters
1st line Idle state 2	Sets the 1st line idle message, state 2	"Insert Coin"	Up to 20 characters
2nd line Idle state 2	Sets the 2nd line idle message, state 2	"Bill or Card"	Up to 20 characters
1st Please make your (Credit Card Only)	Sets to display the credit card message after the approval is made.	"Please make your"	Up to 20 characters
2nd selection (Credit Card Only)	Sets to display the credit card message after the approval is made.	"Selection."	Up to 20 characters
1st line Escrow/Balance	Sets to display the Escrow message only when there is positive cash balance available for vends.	"Escrow/Balance:"	Up to 20 characters
1st line Please Remove	Sets to display the "Please Remove" message	"Please Remove"	Up to 20 characters
2nd line Your VendaCard	Sets to display the "Your VendaCard" message	"Your VendaCard"	Up to 20 characters
2nd line Press Enter Key	Sets to display "Press Enter" message	"Then Press ENTER"	Up to 20 characters
1st line RFID Card	Sets to display the remove message for the RFID card	"VendaCard"	Up to 20 characters
1st line Total Sales (Credit Card Only)	Sets to display "Credit Card" message, used for credit card transactions.	"Credit Card"	Up to 20 characters
1st Cash	Sets to display "Cash" message, used for receipt printing.	"Cash"	Up to 20 characters

Table 11

Parameter	Description	Default	Range
Status LCD Messages	Top level settings for Status LCD Messages	N/A	N/A
System – Ready	Sets the System – Ready message	"System-Ready"	Up to 20 characters
Enabled	Sets the Enabled message	"Enabled"	Up to 20 characters
Disabled	Sets the Disabled message	"Disabled"	Up to 20 characters
Exceeded Limit	Sets the Exceeded Limit Message	"Exceeded Limit"	Up to 20 characters
Bypass Mode	Sets the Bypass Mode Message	"Bypass Mode"	Up to 20 characters
Total Sales (Credit Card In Use)	Sets the Total Sales Message, used for credit card transactions	"Total Sales"	Up to 20 characters
Approved (Credit Card Only)	Sets the Approved message, used for credit card transactions.	"Approved"	Up to 20 characters
Declined (Credit	Sets the Declined message, used for	"Declined"	Up to 20 characters

Card Only)	credit card transactions.

Table 12

Parameter	Description	Default	Range
Error LCD Messages	Top level settings for Error LCD Messages	N/A	N/A
Error Message	Sets the error message to appear on 1st line	"*Error Message*"	Up to 20 characters
Unable to read card	Sets the Bad Card message, used for RFID/swipe card reader	"Reader is Offline"	Up to 20 characters
Insufficient!	Sets the Insufficient funds available message	"Insufficient!"	Up to 20 characters
Invalid Account	Sets the Invalid Account message	"Invalid Account"	Up to 20 characters
Out of Service	Sets the Out of Service message, used for payment devices reporting the error messages	"Out of Service"	Up to 20 characters
Not In Use	Sets the Not in Use message, used for payment devices not currently installed in the vending unit	"Not in Use	Up to 20 characters
Use Exact Coins	Sets the Use Exact Coins message, used for when the coin acceptor has less than $1 in change	"Use Exact Coins"	Up to 20 characters
Out of Coins	Sets the Out of Coins message, used for when the coin acceptor runs out of change, while dispensing change to customer	"Out of Coins"	Up to 20 characters

Table 13

Parameter	Description	Default	Range
Receipt Printer	Top level settings for serial Receipt Printer	N/A	N/A
Use Printer	Sets the printer service to Disabled, AutoPrint or Manual (button)	Disabled	Disabled, AutoPrint or Manual (Button)
LCD Message Line #1 (Web)	Sets the “Press Button to” LCD message for print services	“Press ANY KEY”	Up to 20 characters
LCD Message Line #2 (Web)	Sets the “print receipt” LCD message for print services	“to Print RECEIPT”	Up to 20 characters
Credit Card Only	Sets to print the receipt only if credit card is used.	Unchecked	Checked/ Unchecked
Special Start Hex	Sets the hex codes used for logo	1BFA01000002F0	Up to 20 characters
Printer Delay	Sets the Printer Delay to allow for brief pause for every printed line	30 (mS)	1-65535 mS
Start Header LineFeeds	Sets the Start Header Line Feeds	2	0-65535
Print Test Receipt	Test the receipt printing	Unchecked	Checked/ Unchecked
Header 1-8	Sets the Header messages to appear on the receipt	Messages	Up to 40 characters
Footer 1-5	Sets the Footer messages to appear on the receipt.	Messages	Up to 40 characters
End Footer LineFeeds	Sets the End Footer Line Feeds	4	0-65535
BarCode Initization	Sets the bar code Initialization codes (00 if not used)	1D6824	Up to 10 chars
BarCode Print Code	Sets the bar code print codes (00 if not used). The 7F char is used for inserting the purchase details.	1D6B067F00	Up to 10 chars
Special End Hex Chars	Set the hex codes used for paper cutter	1CC034	Up to 10 chars

Table 14

Parameter	Description	Default	Range
Net Settings	Top level settings for Network Settings	N/A	N/A
Serial Number	Factory configured value	For viewing only	N/A
IP Address	Sets the IP Address	192.168.1.100	IP4 format
Network Port	Sets the network port number	1234	Up to 65535
Web Port	Set the web access port number	8080	Up to 65535
Subnet Mask	Set the Subnet Address	255.255.255.0	IP4 format
Gateway	Sets the Gateway Address	192.168.1.1	IP4 format
MAC	Displays the MAC Address	Hardware MAC (For viewing only)	N/A
Use Net API	Allows use of the network Application Programming Interface	Unchecked	Checked/ Unchecked
Server Host IP Address	Sets the Host Server's IP Address	192.168.1.98	IP4 format
Server Network Port	Sets the Host Server's Network Port	4321	Up to 65535
Restart Network	Restart the network services based on the current network settings	Unchecked	Checked/ Unchecked

Table 15

Parameter	Description	Default	Range

Meters	Top level menu for meters (resettable and non-resettable)	N/A	N/A
Channel 1-8	Displays the total vend counter for each channel	For viewing only	N/A
Cash	Displays the total cash value (cash and bills)	For viewing only	N/A
Bills	Displays the total cash value (bills only)	For viewing only	N/A
Coins	Displays the total cash value (coins only)	For viewing only	N/A
Credit Card	Displays the total credit card purchases	For viewing only	N/A
Bypass Vends	Displays the total value of vends using the PASS card	For viewing only	N/A
No Activity	Displays the total no activity counters	For viewing only	N/A
Escrow Taken (No Activity)	Displays the total escrow value taken as resulted from the expired no activity timer	For viewing only	N/A
PC-Web Debits	Displays the total debits made by host	For viewing only	N/A
PC-Web Credits	Displays the total credits made by host	For viewing only	N/A
Cash → Account Transfer	Displays the total amount of Cash transferred to an account card	For viewing only	N/A
Clear Resettable Meters?	Allows resettable meters to be zeroed	N/A	N/A
Last Cleared	Shows the date and time that the Resettable Meters were last zeroed	For viewing only	N/A

Table 16

Parameter	Description	Default	Range
System Stats	Top level menu for system stats (resettable and non-resettable)	N/A	N/A
All Transactions	Displays the total transactions	For viewing only	N/A
Invalid Transactions	Displays the total invalid transactions	For viewing only	N/A
Card Swipes	Displays the total credit card swipes	For viewing only	N/A
Transactions via Net	Displays the total transactions done by network (web access)	For viewing only	N/A
Transactions via Serial	Displays the total transactions done by serial (RS-232 or USB)	For viewing only	N/A
Power-Ups	Displays the total power-ups	For viewing only	N/A
Printed receipts	Displays the total printed receipts	For viewing only	N/A
Cards Formatted	Displays the total number of VendaCards formatted	For viewing only	N/A
POS Card Uses	Displays the total number of times the POS Card was used	For viewing only	N/A
Clear Resettable Stats?	Allows resettable statistics to be cleared	N/A	N/A
Last Cleared	Shows the date and time that the Resettable Meters were last zeroed	For viewing only	N/A

Table 17

Resetting parameters to their default values

Using a Web browser to reset default parameters:

1. Log into Raptor II web server using your web browser with known IP address/port number.
   Note: Default IP address/port number is – http://192.168.1.1:8080
2. Log in Raptor II Web access using the **Manager** account.
   Note: Default passwords are shown in table 3.
3. Click on the **General** link
4. Check the **Restore to Factory Default** checkbox.
5. Press the **Restore** button.

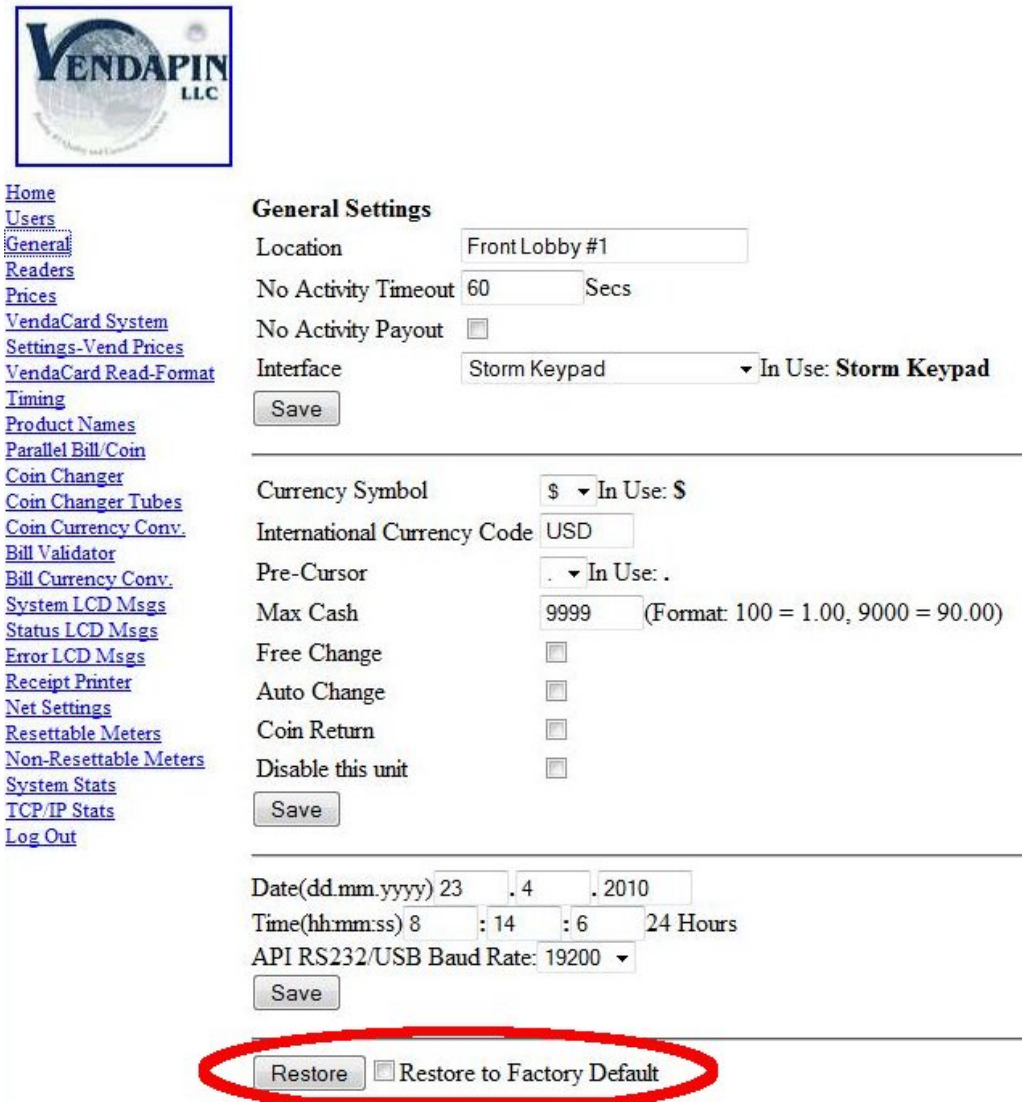


Figure 3

Multi-Communication Interfaces

VENDAPIN's Raptor II multiple communication interfaces make use of Ethernet, USB or RS-232 for API communication service connected to a host system in real-time. The details for each interface are described here for reference.

Ethernet Interface Details:

TCP/IP Network protocols:
Raptor II Ethernet service has a built-in HTTP web server and TCP/IP socket server. The API commands used by Raptor II Ethernet service are based on socket TCP/IP network communication protocol. The configurable network port number is required to access the Raptor II socket server in order to receive the formatted response packets based on the specific API command packet. (Example: 192.168.1.100 1234 for TCP/IP socket network access to Raptor II).

Note: If either USB or RS-232 API commands are issued, the network connection will be disconnected automatically for security purpose. To access the Raptor2 using the network, simply re-connect the client access to the Raptor2 web server and issue API commands as normal.

HTTP Web Server:
Raptor II has a built-in web server that would allow access to all functions and parameters used by the Raptor II API commands. This web service is an excellent tool to allow the developer to test the API commands and then compare the results listed on the web pages generated by the Raptor II web server. This feature is also used as secondary access when the host system is off-line.

Features:

- HTTP port number: Required in order to access the Raptor II HTTP web server. Example: for access to Raptor II Web server: http://192.168.1.100:8080
  - **Note:** 192.168.1.100 is the default IP address
  - **Note:** 8080 is the default web port number
- Account levels: Manager and Clerk.
  - Manager has read/write access to all functions and parameters.
  - Clerk has "read only" access to all services, except for "post credit" function.
- The network settings are configurable by web services or API commands.

Web Access Usernames/Passwords
Manager Username: VENDAPIN
Manager Password: vendapin

Clerk Username: VENDAPIN
Clerk Password: password

Manager Username: vendapin (Backup if the manager username and/or password are lost.)
Manager Password: vendy123

USB Interface Details:
The USB interface used by Raptor II requires an USB driver (provided by VENDAPIN) to be installed on the host system. The USB drivers are available for Windows, Mac OS9/X and Linux. The USB drivers will allow for the USB port to be treated as the "virtual COM" port to allow the host system to interface to the Raptor II USB port. The Raptor II USB port is treated as a "slave" device, just like a mouse or keyboard and cannot operate as a "host/master" USB port, per USB specifications (see http://www.usb.org for details).

USB Drivers Installation for 5896 Series:

Before you plug the Raptor II USB port into a multi-port or single port USB bus, please ensure that you have followed these requirements:

1. Make sure that the power cord(s) and USB cable(s) for the 5896 system(s) are unplugged.
2. Insert the *API Raptor II Setup Express* CD in the cdrom drive.
3. If plugging in more than one (1) 5896 system into a USB port, please make sure that the multiple USB cables connected to the 5896 systems are plugged directly into PC USB ports or use bus-powered (not self-powered) multi-port USB hub connected to PC.
4. When installing the USB drivers, please use the USB drivers that come with the *API Raptor II Setup Express* CD. The USB drivers, can be found in the *USB Drivers* folder on the CD. The "standard" Microsoft USB drivers may not work when dealing with multiple USB 5896 systems.
5. Start with one USB 5896 system connection and complete the USB driver installation first. Then install the additional USB 5896 coin-op driver installation(s) ONE at a time until the USB drivers for all USB 5896 systems are properly installed.
6. To avoid mixing up the Raptor II USB port(s) connected to multiple USB port(s) on the PC, make sure the cable(s) are labeled.
7. Set the baud rate for the USB port(s) to 19200.

RS-232 Interface Details:
The RS-232 serial communication interface used by Raptor II does not require any drivers. The default RS-232 communication protocol for 5896 systems is: 19200, 8, N, 1 and no handshaking. The RS-232 serial port is also used for interfacing to the optional receipt printer.

Accessing Using the VendaCard Control Cards

The VendaCard Control Cards

A set of 5 (five) VendaCard Control Cards allow configuration and setup of the *VENDAPIN, LLC 5896 Pulse Vending Station*.

VendaCard CODE CARD

Figure 4 shows the VendaCard CODE card. This card is used to set the S*iteCode* of the 5896. The SiteCode programs the 5896 to only allow VendaCard User cards for one company or location. This prevents VendaCards from different companies or locations to be used at your location.

Figure 4

VendaCard MANAGER CARD

Figure 5 shows the VendaCard MANAGER card. This card is used to configure the *5896 Pulse Vending Station* system settings.

Figure 5

VendaCard PASS CARD

Figure 6 shows the VendaCard PASS card. This card allows unlimited free pulses on all channels for testing and demonstrations.

Figure 6

VendaCard FORMAT CARD

Figure 7 shows the VendaCard FORMAT card. This card allows the 5896 to format blank user cards or reformat corrupted user cards.

Figure 7

VendaCard POS CARD

Figure 8 shows the VendaCard POS card. This Point Of Sale card allows money to added (credit) or subtracted (debit) from user cards.

Figure 8

VendaCard USER CARD

Figure 9 shows the VendaCard USER card. This card is used by the customers to make a purchase with the 5896 Pulse Vending Station.

Figure 9

Using the VendaCard CODE Card to set the Site Code

Figure 4 shows the VendaCard CODE card.
Insert the **VendaCard CODE Card** into the *5896 Pulse Vending Station.*
The site code will be set as shown in Figure 10.
The *5896 Pulse Vending Station* will beep and set the Site Code for your location.
Remove the VendaCard CODE Card.

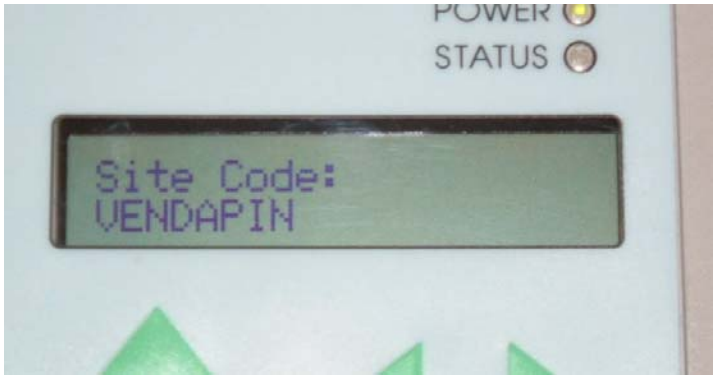


Figure 10

Using the VendaCard MANAGER Card to set the system Parameters

Figure 5 shows the MANAGER Card.
Insert the **VendaCard MANAGER Card** into the *5896 Pulse Vending Station.*
The *5896 Pulse Vending Station* will show the network settings as shown in Figure 11.
Remove the VendaCard MANAGER Card.

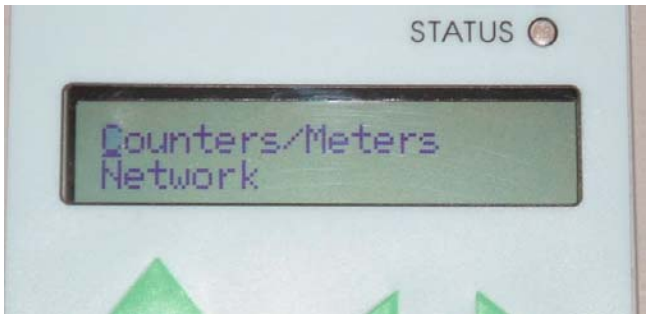


Figure 11

Use the up and down arrows on the keypad to cycle through the system settings:

Counters/Meters
Network
Devices/Services
General Settings
Date – Time
Prices
Timing
Interfaces
Exit

Use the Return key to make a selection.
Select **EXIT** and press the Return Key, when you are done with the system settings.

Using the VendaCard PASS Card to operate the vending device.

Figure 6 shows the PASS Card.
Insert the **VendaCard PASS Card** into the *5896 Pulse Vending Station.*
The *5896 Pulse Vending Station* will show the Bypass Mode as shown in Figure 12.

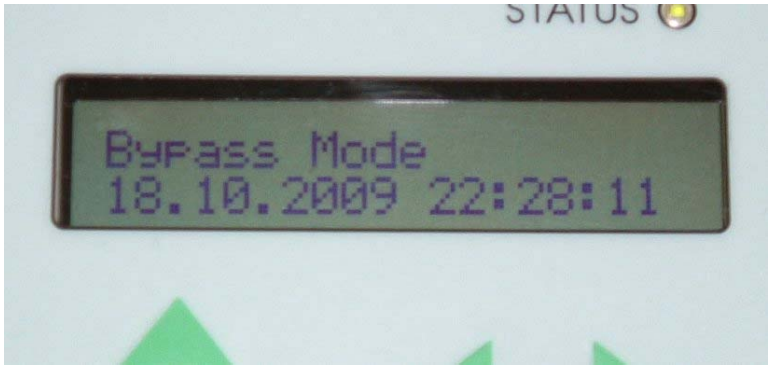


Figure 12

While the **VendaCard PASS Card** is inserted all pulse station(s) will be active
Remove the **VendaCard PASS Card** when you are done to return the *5896 Pulse Vending Station* to normal operation.

Using the VendaCard FORMAT Card to format user cards.

Figure 7 shows the FORMAT card.
Insert and remove the **VendaCard FORMAT Card** from the *5896 Pulse Vending Station.*
The *5896 Pulse Vending Station* will show the **Credit Value:** window as show in Figure 13.

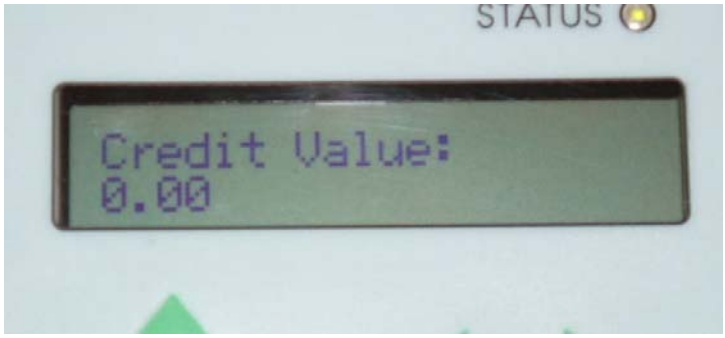


Figure 13

Use the keypad on the *5896 Pulse Vending Station* to set the initial value on the card.
Note: $0.00 is the default value.
Press the **Return Key** on the keypad
The *5896 Pulse Vending Station* will show the **Cards to Format** window as show in Figure 14

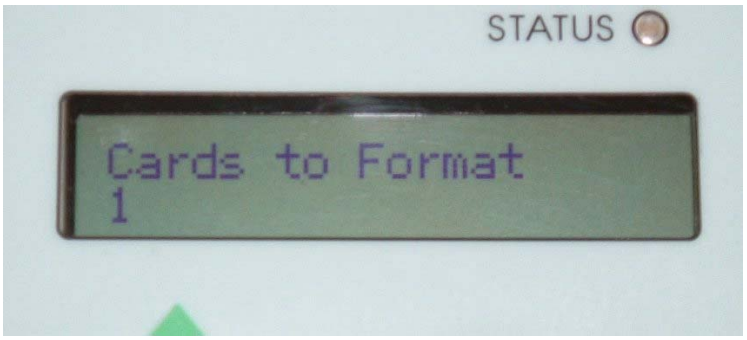


Figure 14

Use the keypad on the *5896 Pulse Vending Station* to enter the number of cards to format
Press the **Return key** on the keypad
Insert the first **USER Card** to format.
When the *Formatting Done* Window appears remove the user card.
Continue inserting more cards until all cards are formatted.

Using the VendaCard POS Card to credit or debit money from user cards

Figure 8 shows the POS card.
Insert and remove the **VendaCard POS Card** from the *5896 Pulse Vending Station.*
The *5896 Pulse Vending Station* will show the **Debit Value:** screen.

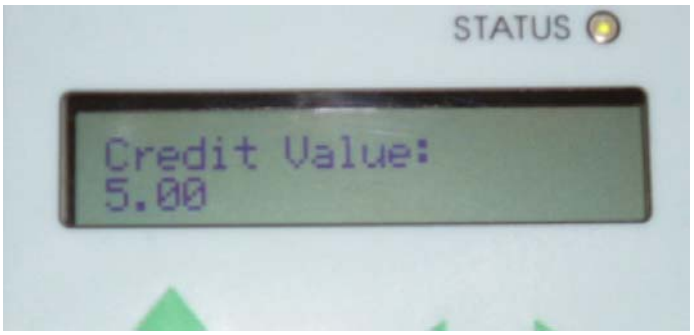


Figure 15

If you wish to credit money to the user card, use the plus arrow on the keypad to show the **Credit Value:** screen. See Figure 15.
Press the number keys to enter the value to be debited or credited to the user card.
Press the **Return Key** on the keypad.

Using the VendaCard USER Cards to make purchases

Figure 9 shows the USER card.
Insert the **VendaCard USER Card** into the *5896 Pulse Vending Station.*
The display will show the amount of credit available on the card. See Figure 16.

Figure 16

The user can now use the *5896 Pulse Vending* Station as long as the card is inserted and contains sufficient value.

Using a web browser to set the system parameters

A convenient way to configure the Pulse Vending Station parameters, in real-time, is to use a web browser.

Logging into the Raptor II Web Server:

Figure 17 shows the login screen after you open a web browser to access to Raptor II via network:

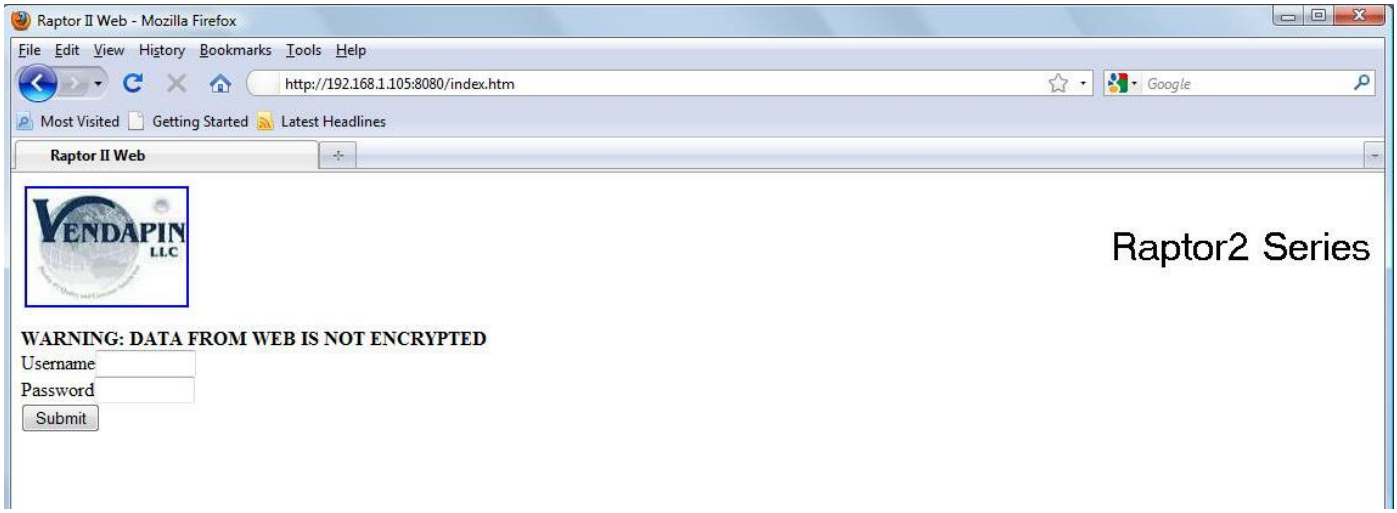


Figure 17

The factory default accounts for manager and clerk are as following:

Manager:
Username: VENDAPIN
Password: vendapin

Clerk:
Username: VENDAPIN
Password: password

NOTE: The manager and clerk accounts passwords should be changed immediately for security purposes.

After you log in, you will see the Main Menu with *Home* web page as shown by default as shown in Figure 18.

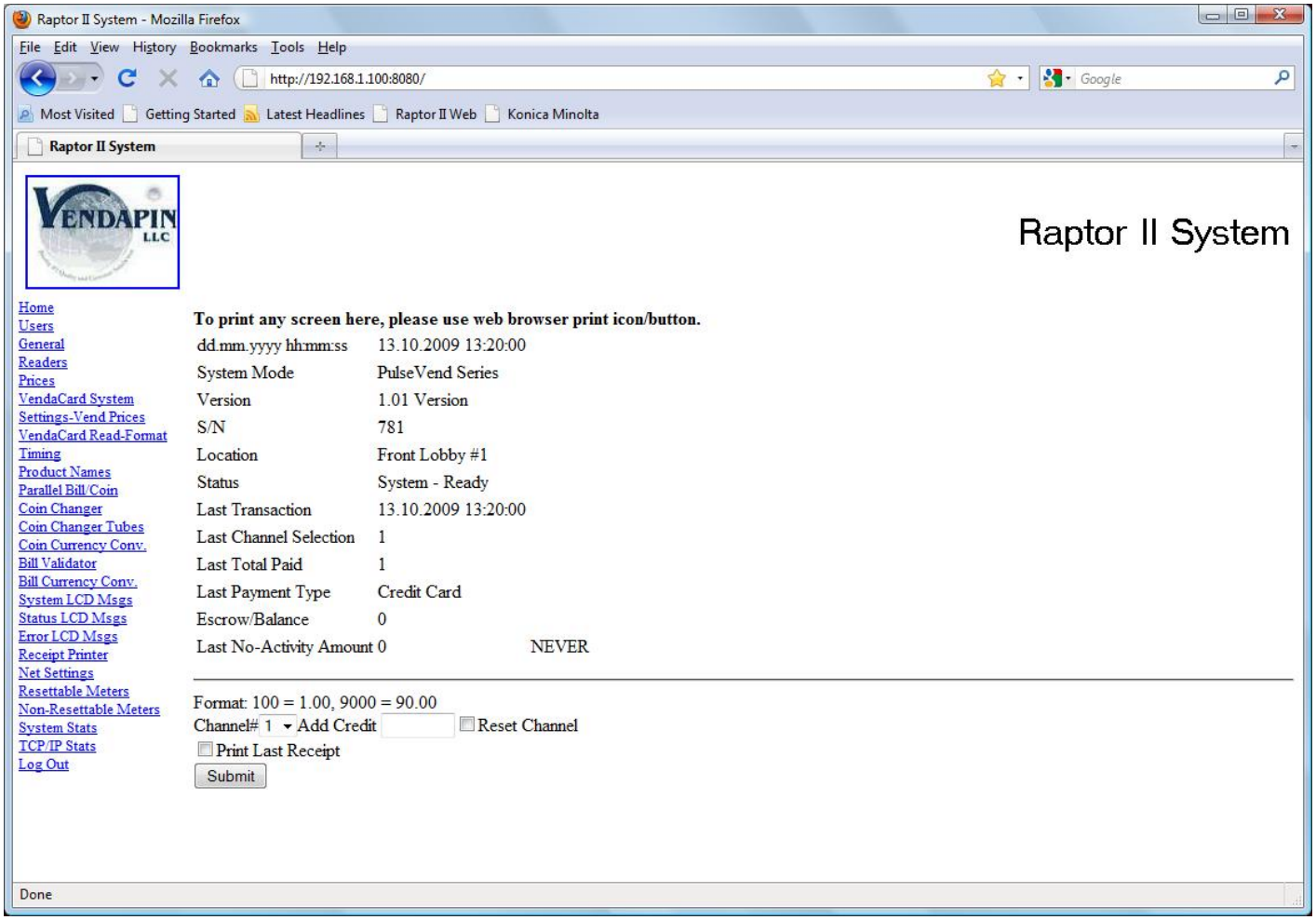


Figure 18
Raptor II Web Access Main Menu

The left column of Figure 18 contains the top-level menu selections. The right side of Figure 18 displays the details of the top-level menu selected.

The top-level menus are described in details under the *Your Unit* chapter.

There are two methods to configure the IP, Subnet Mask, and Gateway addresses:

1. Configure the network settings using a network cable
   Note: This method requires that 192.168.1.100 is not in use.

2. Configure the network settings using a cross-over cable
   Note: This method is useful if 192.168.1.100 is already in use.

1) Configuring the network settings using a Network Cable

Obtain the following information from your IT department:

an unused “static” IP Address
Subnet Mask
Gateway Address
Network Port
Web Port

Determine your computer's network settings:

On Windows XP, click **Start**
Click **run**
type in **cmd**
Click **OK**
In the *Command Prompt* window, type **ipconfig** and press the *Enter* key
The following information will be displayed pertaining to your computer
IP Address
Subnet Mask
Default Gateway.
Type **exit** and press the *Enter* key to close the *Command Prompt* window.

If your computer's IP Address is 192.168.1.X (Subnet is: 255.255.255.0, Gateway is 192.168.1.1, which is typical), you can configure the 5896 network settings by opening a web browser.

Open a web browser
Type **http://192.168.1.100:8080** into the address bar and hit the **Enter** key.

The *Raptor II Login Window* will now be displayed.

- Log in using the **Manager** account.
- Click on **Net Settings** (on Raptor II Web access)
- Change the IP, Subnet and Gateway addresses.
- Click **Restart Network** checkbox
- Press the **Save** button.

2) Configure the network settings using a cross-over cable

Note: These instructions were written assuming Windows XP as the installed operating system.

1. Unplug the network cable from your desktop (or laptop).
2. Right mouse click on the *Local Area Connection* Icon next to the clock. See figure 19

Figure 19

3. In the *Network Connections Window*, Right mouse click on the **Local Area Connection** icon. See figure 20

Figure 20

4. Click on **Properties**

5. In the *Local Area Connection Properties*, select **Internet Protocol (TCP/IP)**
6. Click on the P**roperties** button. See figure 21

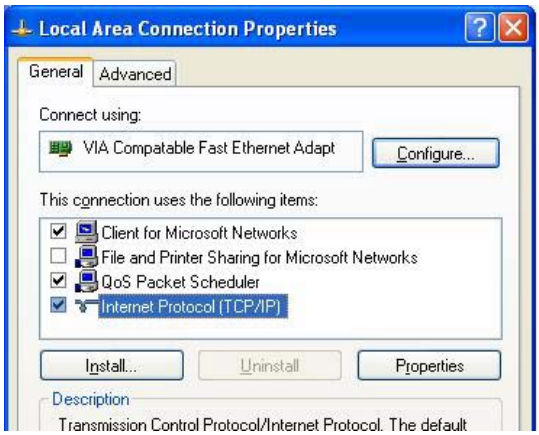


Figure 21

7. In the *Internet Protocol (TCP/IP) Properties*, select the **General** tab
8. Select the **Use the following IP address** radio button. See figure 22

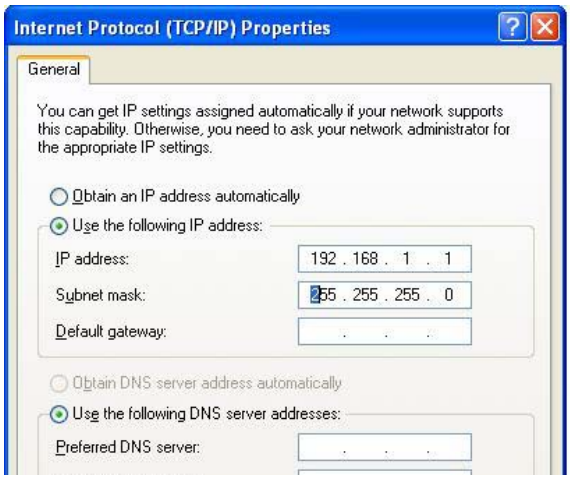


Figure 22

9. Enter **192.168.1.1** for the IP address.
10. Subnet mask should be **255.255.255.0**

11. Click **OK**
12. Click **Close**
13. Close the *Network Connections* window

14. Plug in the Crossover Cable.
15. Open a web browser
16. Type **http://192.168.1.100:8080** into the address bar and hit the **Enter** key.
17. The *Raptor II Login Window* will now be displayed.
18. Log in using the **Manager** account.
19. Click on **Net Settings**
20. Change the IP, Subnet and Gateway addresses.
21. Click **Restart Network** checkbox
22. Press the **Save** button.
23. Change your PC network settings back to the original settings and save the network settings.

More details about the IP address use can be found at the end of the manual.

Configuring the Unit for VendaCard Operation

Configuring the Unit

Location, Currency, Cash Settings, Date-Time and Others

The following parameters are located under the **General Menu**.

Location

This is the where the 5896 Pulse Vending Station is located. It is useful to set this value to tell apart 5896 Pulse Vending Stations, when multiple stations are present.

No Activity Timeout

This is the amount of time, between 1 second and 65,535 seconds, during which nothing will happen when a patron has left an escrow in the unit.

- If there is escrow alone in the unit immediately after the vend or deposit was made, the No Activity timer has started. Then the fate of that escrow depends on how the No Activity Payout parameter is set (see below).

Setting the No Activity timer

Set the parameter for the amount of time the unit should wait before taking action.

Disabling the No Activity timer

Setting No Activity Timer to **0** will disable the no activity timer.

No Activity Payout

This parameter is available only if No Activity is set. It determines what happens to the escrow when the no activity timer expires.

- If checked, the unit pays the balance
- If unchecked, the escrow is absorbed by the unit and added to the No Activity meter.

Interface

This parameter sets the interface based on the type and number of devices. At default, the interface is set to AutoVend, which uses the FDI (Foreign Device Interface) to connect the opto-relay circuit to enable/pulse vend operations. Please contact VENDAPIN if you require different interfaces.

Defining currency display

The following parameters are located under the **General Menu**. They determine how currency (Example Currency format: $1.00USD) appears on the display and in printouts as described here:

Currency Symbol
Set this parameter to specific currency symbol to display the currency symbol character next to currency. The existing currency symbols are listed here:

- Dollar ($)
- British Pound (£)
- Yen (¥)
- Euro (€)
- Chile (₵ with 2 forward diagonal lines)
- Thailand Baht (฿ with vertical line in middle)
- Dinar (د)
- Aruba Florin (*ƒ*)
- No Currency Sign Symbol

International Currency Code
Set this parameter to configure the 3-letter international currency code (ISO 4217) to be displayed after the currency value.

Pre-Cursor
This parameter selects two currency separators (comma or period) or none. This separator will be seen in all menus, displays, and printouts.

Max Cash (Not Applicable to 5896)
This is the maximum cash value a patron can insert into the cash acceptance device. The maximum cash value is $655.35.

Free Change (Not Applicable to 5896)
If this parameter is *checked*, the unit will act as a change machine.

Auto Change (Not Applicable to 5896)
This parameter determines whether change is paid out after a cash transaction is performed.

Coin Return (Not Applicable to 5896)
This parameter enables or disables the coin return option.

Disable this unit
This parameter allows the manager or clerk to disable the unit remotely.

Date/Time
Set this parameter to configure the real-time date and time clock. The real-time date-time clock is used for time-date stamp on all transactions.

API RS232/USB Baud Rate
This parameter controls the speed of the serial ports (RS232 and USB) on the 5896 Pulse Vending Station

Restore to Factory Default
Set this parameter to restore all parameters to Factory Default.

Determining how VendaCard reader/device operate

The following parameters are located under the **Readers Menu**. Use them to configure for specific parameters for the VendaCard reader/device.

MDB Credit Card Reader Settings (Not Applicable to 5896)

The parameters in the **Readers Menu** govern all credit card transactions.

Status: (Not Applicable to 5896)

This parameter determines if the credit card reader is activated.

Enable MDB Credit Card Reader (Not Applicable to 5896)

This parameter determines if the credit card reader is to be activated.

Maximum Pre-Authorized Value (Not Applicable to 5896)

This parameter determines the maximum amount that the credit card reader sets aside until the final bill is settled.

Minimum Purchase Value (Not Applicable to 5896)

This parameter determines the minimum amount that the credit card user will be charged per transaction. It is recommended that this value be set high enough to cover credit card transaction fees.

LCD Msg for Min Purchase Value (Not Applicable to 5896)

This is the display parameter that notifies the customer of the minimum value that will be charged to their credit card.

Reset Credit Card Reader (Not Applicable to 5896)

This parameter allows the credit card reader to be reset.

Determining how cash acceptors operate (Not Applicable to 5896)

The following parameters are located under the **Coin Changer, Bill Validator and Parallel Bill/Coin Acceptor Menus**. Use them to configure for specific parameters for these coin and bill acceptors.

Coin Changer (Not Applicable to 5896)

The Coin Changer Menu incorporates parameters for enabling/disabling international currency values.

Bill Acceptor/Validator (Not Applicable to 5896)

The Bill Validator Menu incorporates parameters for enabling/disabling international currency values.

Pulse Bill/ Coin Acceptor (1 - 6 channels) (Not Applicable to 5896)

The Pulse Bill/Coin Acceptor can be plugged in the parallel bill/coin port on Raptor II board and then configure the pulse values for each channel.

Setting Pulse Vending Prices

Using the VendaCard System Settings-Vend Prices Menu

The 5896 Pulse Vending Station allows up to 8 prices depending on the interface mode.

To set the price parameters

1. Click on the **VendaCard System Settings-Vend Prices** link. Figures 23.
2. Configure the prices 1-8 based on device connected.
3. The price parameters that are displayed will depend on the operating mode the machine is in.

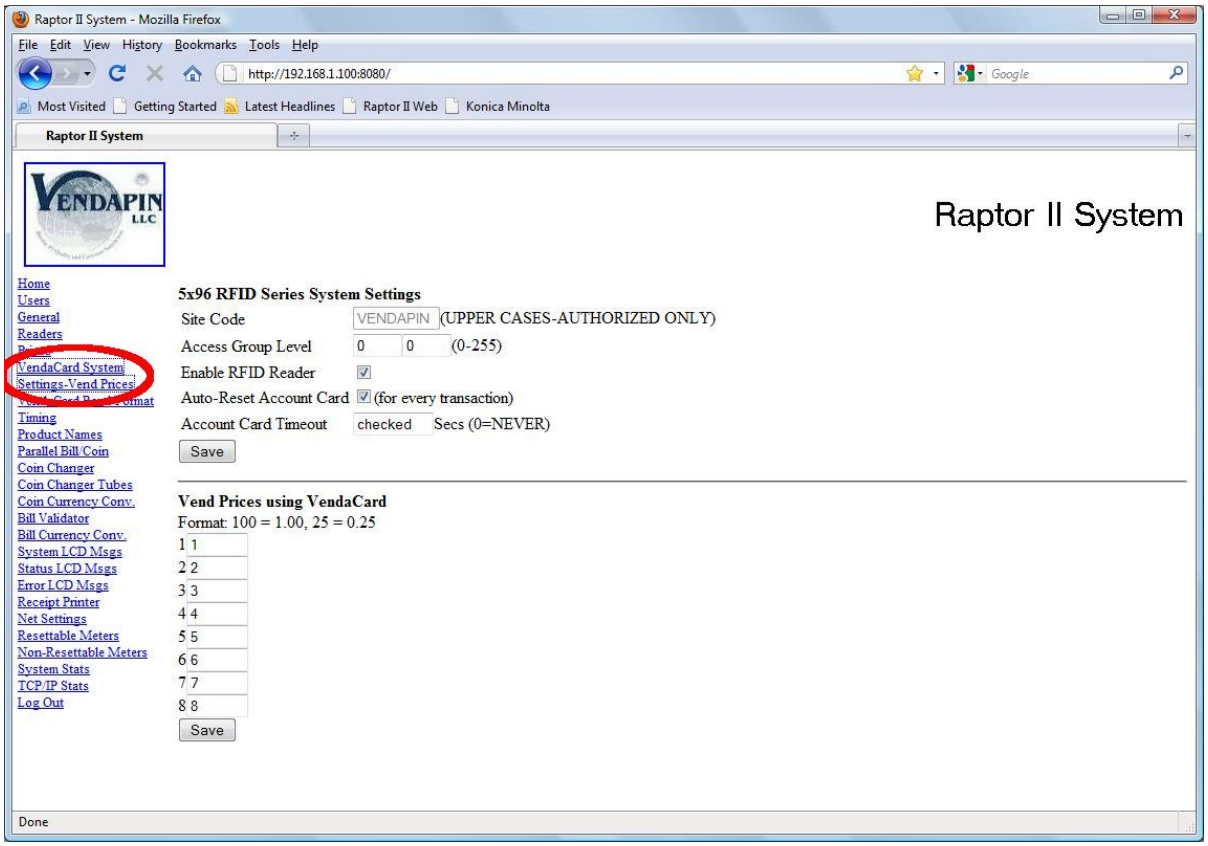


Figure 23: Web Browser – Price Settings

Coordinating Timing with the Device

Setting the timing parameters using Timing Menu

Re-configuring timing parameters

The timing parameters in the Pulse Vending Station should be set to match the timing requirements of the vending device. (These values should be published in the host product's documentation.) If you're experiencing problems that indicate that the timing is off between the VENDAPIN system and host-vending device, try fine-tuning the timing parameters.

To modify the timing parameters

1. Select Timing Menu.
2. Change the timing parameters appropriate to the particular symptom you're witnessing.

Timing parameters

Channel Timer (1-8)

This parameter is set in 1-millisecond increments, ranging from 1 to 65535 milliseconds. At default, the 1250mS time value is used. This is the minimum length of time a pulse will remain active.

Using Counters/Meters

About counters/meters

All vending activity is recorded with an extensive set of internal electronic meters. There are two sets of meters available:

- Resettable meters. Allow for periodic recording of transactions. They are usually viewed, then reset on a regular basis.
- Non-resettable meters. Provide a tamper-proof record of all transactions made on the system.

Viewing and resetting counters / meters

You can view, reset, and print the meters in a *web browser*, using the **System Stats** selection.

Setting up a Printer

Configuring the serial printer

You can hook up a portable printer to the Pulse Vending Station to print out receipts.

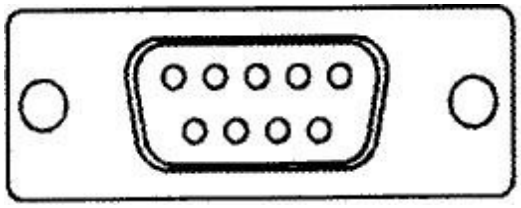


Figure 24
Rear Unit DB-9 Female Serial Port

1. Connect a serial printer to the DB9 port (See Figure 24) on the back of the controller board.
2. The printer should be configured to operate with the parameters listed in Table 18. Read the printer user's manual that accompanied the serial printer to find out how to set them.
3. Configure the Copy Vending Station using a *Web browser* and set the *Receipt Printer* parameters under **Receipt Printer** menu.

Printer Serial Settings	
Baud Rate:	19200
Parity:	None
Data Bits:	8
Stop bits:	1
Flow Control:	None

Table 18

Accessing the DB-15HD Interface

DB-15HD Interface Connector

VENDAPIN, LLC's Vending Access Control products use a DB-15HD connector to interface with third-party vending devices. The DB-15HD connector is a VENDAPIN, LLC standard for interfacing to system devices. Pre-assembled harnesses with installation instructions from VENDAPIN, LLC are available.

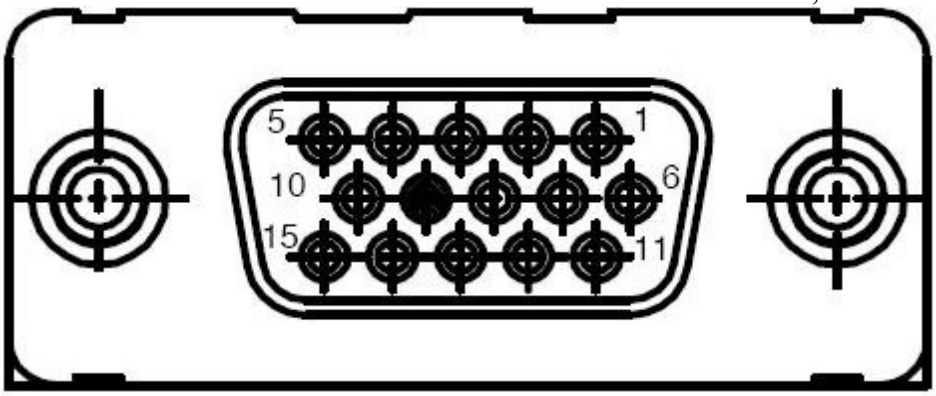


Figure 25
Rear Unit DB-15 Interface Female Connector

Table 19 shows the pinout settings for the DB-15HD connector.

Pinout for J2 DB-15HD Interface Connector	
PIN	**Description**
1	Opto1 Monitor Line 1 Input
2	Opto1 Monitor Line 1 Output
3	N/A (Not Used)
4	Enable Relay 2 N/O
5	N/A (Not Used)
6	N/A (Not Used)
7	N/A (Not Used)
8	Enable Relay 2 COMMON
9	Enable Relay 1 N/C
10	Enable Relay 1 COMMON
11	Input Source for Driver to Onboard Resistors
12	N/A (Not Used)
13	Enable Relay 2 N/C
14	N/A (Not Used)
15	Enable Relay 1 N/O
GND	Shield Ground – Not Connected, Used for Return Loop

Table 19

Button/Lamp Interface

Accessing the Button/Lamp Interfaces

Molex 12 pin Connector

VENDAPIN, LLC's Pulse Vending Control products can also use the two Molex 12 pin connectors to interface with up to eight third-party vending devices. Each Molex 12 pin connector is a VENDAPIN, LLC standard for interfacing with up to four pulse vend products using a relay assembly. By using both connectors a total of eight pulse vend products can be controlled using a relay assembly. Pre-assembled harnesses with installation instructions from VENDAPIN, LLC are available.

Pinout for **J13** and **J14** Molex 12 pin Interface Connectors	
PIN	Description
1	Ground
2	Button 1 / Button 5
3	Button 2 / Button 6
4	Button 3 / Button 7
5	Button 4 / Button 8
6	Lamp 1 / Lamp 5 (pull to ground)
7	Lamp 2 / Lamp 6 (pull to ground)
8	Lamp 3 / Lamp 7 (pull to ground)
9	Lamp 4 / Lamp 8 (pull to ground)
10	+5v DC
11	+12v DC (Not Available on 5896 vending unit)
12	+24v DC (Not Available on 5896 vending unit)

Table 20

Note: The Lamp lines can only support 350 mili-amps. If you need more current capacity, then an external relay MUST be used.

Error Messages, Troubleshooting & Misc.

Error messages

LCD Message	Cause	Solution
Out of Service	The bill acceptor/coin changer is disabled because the software has received a full, jam, or stacker open message from them. This message appears only once, when the event occurs.	Remove all money and clear the bill and coin path of foreign objects.
Exceeded Limit	The escrow in the machine, plus the last bill inserted exceeded the unit's cash limit. The bill is ejected.	Insert a smaller bill or coins. The Max Cash parameter can be increased, to prevent this from occurring
Out of Coins	The unit is holding escrow because there is not enough money in the coin tubes to pay out the requested change.	Refill the coin tubes.
Use Exact Coins	The bill acceptor is rejecting the notes	Refill the coin tubes.
Declined	The purchase price has exceeded the maximum pre-authorized value.	Increase the maximum pre-authorized value and contact the merchant account to increase the limit.

Table 21

Troubleshooting guide

Pulse Vending Station problems

Table 22 describes problems that may occur in the Pulse Vending Station, and provides the steps you should take to resolve the behavior.

Problem	Cause	Solution
No letters on LCD display screen	• LCD screen intensity too low. • System problem. • No main power to unit.	• Adjust the LCD display contrast using the trimpot (clockwise) located on bottom/front/right side of board next to LCD connector. • Power down for few seconds, then power up again (unplug & replug the unit power cord from electrical outlet). • Check electrical fuse.
All blocks on LCD display screen	• LCD screen intensity too high. • System problem. • Reset condition.	• Adjust the LCD display contrast using the trimpot (counter-clockwise) located on bottom/front/right side of board next to LCD connector. • Power down for few seconds, then power up again (unplug & replug the unit power cord from electrical outlet). • Contact VENDAPIN technical support.
Serial port or USB port not working	• Wrong baud rate. • Wrong cable.	• Host and Print/Copy Vending Station must be set to same baud rate (19200). • Use standard off-the-shelf 9-to-9 serial cable. • Re-install USB drivers and check the COM port on host machine.

Table 22

Restoring data after a power failure

In the event of a power failure during a transaction, the unit will save the following information.

- Escrow amount
- All last transactions

When the unit regains power, the data listed above is restored. If there was escrow before the power outage, that amount will be restored and the display updated. The patron can then continue with the transaction.

What is an IP Address? (Static IP, Dynamic IP)

An IP address identifies a computer or other network attached device to the network. Every device on a network needs to have its own unique address. That way, data is sent to the correct device. There are global IP addresses that are used by the whole Internet and local IP addresses that are only used behind a router.

Q: Why isn't there One Set of IP Addresses for the Whole World?

A: It might be nice if every computer had its own IP address. Unfortunately, computers are replaced frequently — millions are added, removed, or rearranged every day. It would be impossible for everyone in the world to keep up with the changes.

To avoid this problem/ the Internet community does a number of things:

- They use one set of global addresses for the whole world.
- A group of private address spaces were set aside for use in a private network behind a router.
- Some addresses are used only temporarily. When the computer is turned off, the address is given to someone else.
- Subnet masks were created to break large networks into smaller more manageable groups.

Whether for the whole world, or just for your home or office, an IP address always looks like this (four numbers separated by three periods):

192.168.1.1

The subnet mask has the same format. The subnet masks on your own home network will almost always have exactly these numbers:

255.255.255.0

Don't change the subnet mask without being sure what it does!
You need to keep a record of these IP addresses:

1. The one your IT department gives you. This one is used by the whole world to access your network.
2. The address of your 5896 unit on your own network. By default VENDAPIN sets the IP address to 192.168.1.100. That's the IP address you type in an Internet browser to log in your 5896 unit.
3. There are situations where you will need to know IP addresses of other devices in your network.

What's the Difference Between Static and Dynamic IP Address?

The IP addresses from your IT department are assigned one of two ways:

- Static IP address. The device is assigned an IP address that never changes.
- Dynamic IP address. The device is assigned a temporary IP address, which can change according to the policy set by your IT department's DHCP router.

Because a Static IP address does not change, most networking equipment requires a static IP.

Dynamic IP addresses are used in large networks where computers are frequently reconfigured or moved.

VENDAPIN LLC Product Registration Card

1 Year Warranty

To better serve our customers, we are enclosing a "cut-out" Warranty Registration card here, which when filled out and returned to VENDAPIN LLC, will permanently register your equipment for warranty repairs and technical services.

VENDAPIN Model Number:	
Serial Number:	
Software Type:	
Revision:	
Ship Date:	
Company Name/Location	
Address:	
City/State/Zip:	
Phone:	
Email:	
Purchased From:	
Host Machine (Copy/Print Machine) Make/Model	
Received in good condition?	
Problems installing?	
System satisfactory?	
Suggestions or problems:	

NOTES

Contact

Corporate & Manufacturing Offices:
838 Jefferson Street
Brooksville, Florida 34601
Tel: +1.352.796.2693
Fax: +1.775.256.6311
info@vendapin.com
sales@vendapin.com
diane@vendapin.com

Technical Support and R&D:
support@vendapin.com

Web Site:
www.VENDAPIN.com