



3396 Coin-Op Series

3396 Vending Station Operator's Manual

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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.

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.

One-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 one year 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. 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., 21B Squires St., Cortland, NY, 13045 by parcel post, common carrier, UPS 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 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 one-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 and standard coin changers not manufactured or modified by VENDAPIN LLC are not included in VENDAPIN LLC's Warranty or Service policy. Currency acceptors 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
21B Squires St
Cortland, New York 13045

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 +1.352-678-3021 (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.

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About the Product

What is the 3396 Vending Station?

The 3396 Vending Station is a multi-mode device. It can be standalone or work in print mode in cooperation with a host PC running print vend software to control access to printers or in copy/time vend mode to control access to copiers, microfiche readers, or any other device that can be controlled with a relay closure. Customers use cash (coins) or credit cards to pay for products or services.

Vend price structure

The 3396 Vending Station supports differential pricing based on whether patrons pay for services with cash or credit card (3396C). The device provides single (standard/time vend mode) or dual prices (steering mode).

Copy mode

Patrons are charged for each copy. Prices are set and maintained within the 3396.

Print Vend mode

Prices are set in the print vend software (such as VendaPrint), which instruct the 3396 Vending Station how much to debit from escrow for each transaction. In print vend mode, users are charged for each transaction, not by the amount of time they use the PC.

Time Vend mode

Patrons are charged according to the amount of time a controlled device is operating. Prices are set and maintained within the 3396.

System features

Dual print/copy operation

The 3396 Vending Station was designed to simultaneously control the print and copy modes of multifunction copiers networked to PCs.

Application programming interface (API)

The 3396 Vending Stations supports an API command set through an on-board serial port that allows you to set parameters or read the status/escrow. The API allows the terminal to communicate with a PC while connected to a copier/printer/system, and to vend from both simultaneously. This makes it possible to:

- Use the 3396 Vending Station with many multifunctional copiers available today.
- Substitute the 3396 Vending Station for a Computer Vending Station, if necessary.

Getting Started

Setting up the unit

Connecting to the host device

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

Vending from a copier

If you're connecting to a copier, a special machine harness, specific to the make and model of your copier, will be required.

Vending from a computer

Print vending operation:

1 Run the serial cable from the RJ-11 inside the unit to a spare COM port on your computer OR run the USB A-B cable from USB port inside the unit to a spare USB port on your computer.

2 Once the unit is powered up (see below), make sure the baud rate of the unit is set to the baud rate of the computer by setting the Baud Rate jumper (JMP5) on the board. Instructions for programming the unit can be found in Chapter 3. The Print Vend software (such as VendaPrint™) running on the host PC might use 9600 baud rate to achieve optimal performance.

3 Install the print vend software such as VendaPrint™ and monitored printers according to the instructions provided by the software vendor.

Powering up the 3396 Vending Station

Plug the 3396 Vending Station into a three-prong, grounded wall outlet. The unit will cycle through its boot-up sequence and is ready for operation immediately.

Please Note: A PC is required to set-up and program the 3396 Vending Station.

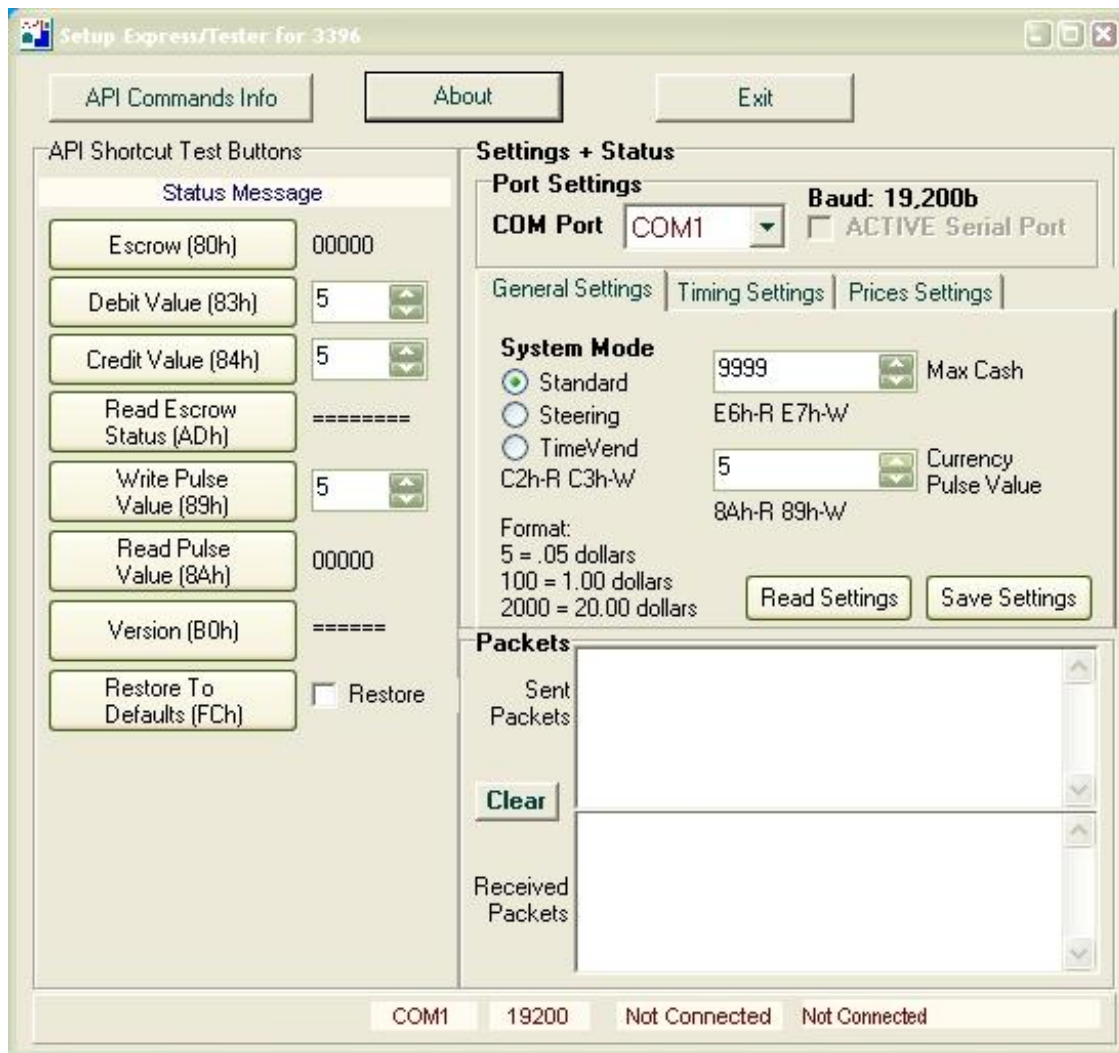


Setup Express for 3396 for Windows (2000 or later)

Programming the unit

Modifying parameters

Programming parameters are required to customize the operation of the 3396 Vending Station. When the unit is delivered from the factory, the parameters set to default states (given in “Parameter listing” on page 10-12). The unit must be in program mode to modify parameter values using the Setup Express program for Windows. This program will allow you to make the changes to the parameters and save it over the serial port or USB port to your PC.



Screenshot of Setup Express/Tester for 3396

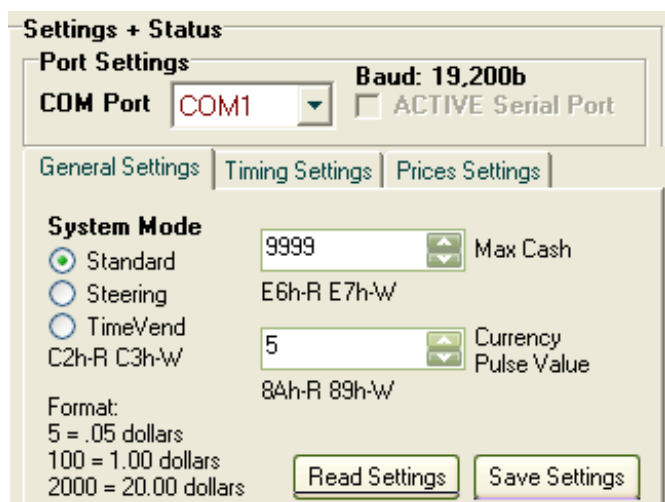
Configuring the unit for print, copy or time vend vending

Programming parameters are grouped under menus specific to the type of vending operation. When you enter program mode, you're presented with the top-level menus, in the order shown below. This method allows you to skip over menus that aren't applicable to your operation, and to locate specific parameters quickly.

Parameter Menu	Print Vending	Copy Vending	Time Vending	Description
General Settings	P	P	P	General parameters
Timing Settings		P	P	Timing for copy & time vend operations
Prices Settings		P	P	Prices used for copy & time vend services

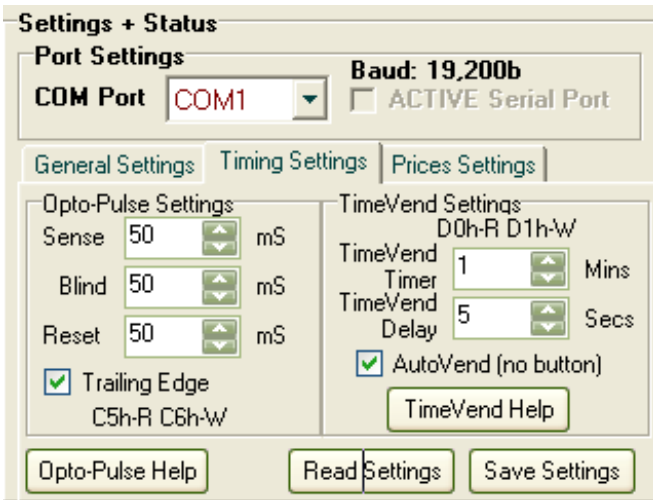
Parameter listing

The table below lists the parameters as they appear on the unit, and also gives the acceptable range of values and default setting for each parameter.



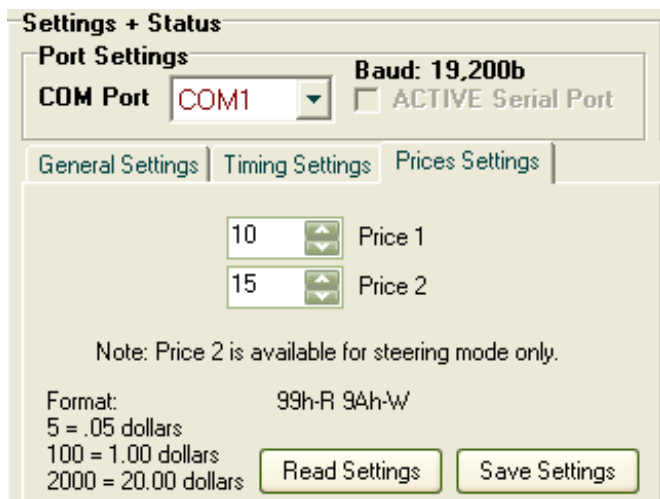
Screenshot of General Settings Tab Section

Parameter	Description	Default	Range
General Settings	General settings		
System Mode	Standard Mode – uses either opto 1 or opto 2 for one vend (relay closed) operation. Steering Mode – uses opto 1 for counter and opto 2 for price selection Time Vend – to control the time vend operation.	Steering	Select Standard, Steering or Time Vend.
Max Cash	Set the maximum cash value	9999	1 - 65000
Currency Pulse Value	Set the currency pulse value used by bill acceptor or coin mech using pulse mode. For example 5 = 1 pulse for \$0.05 to be added to escrow.	5	1 - 65000



Screenshot of Timing Settings tab section

Parameter	Description	Default	Range
Timing Settings	Timing settings		
Sense Time	Minimum debit pulse length for input pulse 1 (steering and standard modes) or pulse input 2 (standard mode only).	50mS	1ms-65000mS
Blind Time	Time after debit pulse in which additional pulses are ignored for input pulse 1 (steering and standard modes) or pulse input 2 (standard mode only).	50mS	1ms-65000mS
Reset Time	Length of time relay 1 stays energized after eject message for input pulse 1(steering and standard modes) or input 2 (standard mode only)	50mS	1ms-65000mS
Trailing Edge	Whether to debit on the trailing edge or leading edge of input pulse 1 (in standard or steering mode) or input 2 (in standard mode only).	. Trailing Edge	. Trailing Edge (on) or Leading Edge (off)
Time Vend	Specifies the number of minutes each vend will last.	1	1-65000 minutes
Time Vend Delay	Delay between the time the payment is made and the time-vend period starts.	5	1-65000 seconds
AutoVend	Used by Time Vend. If the option is set to YES, time vend purchase time will be added to time immediately. If it is set to NO, switch button is needed to “activate” the add the purchased time to time vend feature.	YES	Yes/No



Screenshot of Prices Settings tab section

Parameter	Description	Default	Range
Prices Settings			
Price 1	Set price 1 to be used for all modes (standard, steering or time vend). Examples: 10 = \$0.10, 200 = \$2.00	10	1-65000
Price 2	Set price 2 to be used for steering mode Examples: 10 = \$0.10, 200 = \$2.00	15	1-65000

Resetting parameters to their default values

On your Setup Express/Tester for 3396 program installed on your PC, click on **Restore To Defaults** button

Mechanical Counter

The mechanical counter inside the 3396 unit is connected to the coin mechanism. Every count is based on the currency pulse. With the known currency pulse value (see Setup Express), the counters can be easily calculated.

Example:

10 pulse counts sent to mechanical counter
5 (cents) based on Currency Pulse Value

x

50 cents worth of coins is added to mechanical counter.

Configuring the Unit for Cash Operation

Configuring the Unit

Max Cash

This is the maximum cash value a patron can insert into the pulse coin mechanism.

If your unit uses a parallel or pulse mechanism

This type of coin mechanism can reject a coin once it has been inserted. The result is that if the cash limit is exceeded, the unit disables the pulse acceptor and returning the money. It then holds the money in escrow until it drops below the limit again.

Dual print/copy operation

The 3396 Vending Station was designed to operate with multifunction copiers. Since it is capable of controlling both the print and copy modes of these machines, it was necessary to build in a mechanism to handle conflicts arising when the vending device receives print and copy requests simultaneously. To avoid one person from inadvertently debiting another person's escrow, we've imposed a traffic protocol on jobs coming from the two sources. This is the way it works:

- If copying is initiated first, the unit locks out the ability to debit via the serial port until the escrow falls below the lowest vend price.

Currency Pulse Value

The Configurable Currency Pulse Value (CPV) is an international currency device that allows you to configure, through software, the weights to assign to different units of currency. It can be plugged into nearly any type of pulse coin or bill acceptor.

Prices

To set the price parameters

1. In your Setup Express program, click on Prices Settings to set the value for Price 1 or Price 2, depending on the system mode.

Time Vending

How does Time Vending work?

Time vend operates in an auto-debit mode: the patron inserts a cash, a debit takes place, and the time-vend period begins. When the time-vend period runs out, relay remains enabled and a new time-vend period automatically starts with a debit from the escrow. The cycle continues until the value left in escrow falls below the vend price, at which time relay is disabled. The unit will flash the green lamp, warning the user to wind things up.

Interrupting a time-vend session

Once a time-vend session has started, it can be stopped or interrupted before the time purchased runs out.

To cancel time vend before a debit takes place

After the customer inserts cash, the time vend delay provides a buffer, giving the vend device time to start up before the debit takes place, and the time-vend period begins its countdown. The time vend delay applies only to the first time period (not in subsequent auto-debits).

Setting up the unit for time vending

Time vend is active only in time vend mode; standard or steering mode does not support this feature. Time vend operates with cash or credit cards only. To set the unit up for time vending:

1. Using Setup Express, set the system mode to **Time Vend**.
2. Make sure all timing parameters are set correctly (see Coordinating Timing with The Copier Device chapter for setting these parameters)

Time Vend parameter

This parameter defines the duration of one time-vend period. Acceptable values range from 1 minute to 65000 minutes.

Time Vend Delay parameter

The acceptable range for this parameter is 1 second to 65000 seconds.

This delay period starts just after an escrow has been expired and relay enabled, but before the money is debited from the escrow. The purpose is to give the vend device time to start without taking time away from the time-vend period purchased.

AutoVend parameter

This parameter is available for TimeVend mode.

This AutoVend option will allow for the purchased time to start the time vend immediately (relay is energized immediately).

If the AutoVend option is disabled, the purchased time will be put in queue (relay is not energized) until the button is pressed, then the purchased time is added to time vend timer, which start the time vend immediately (relay is energized).

Coordinating Timing with the Device

Setting the timing parameters

Re-configuring timing parameters

The timing parameters in the 3396 Vending Station should be set to match the timing of the copier or other 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 device and host vending device (e.g., free copies are being dispensed), try fine-tuning the timing parameters.

Timing parameters

Timing Settings

Use this section to set the Setup Express software to operate in either standard mode, steering mode or time vend mode.

Sense Time

This parameter is set in 1-millisecond increments, ranging from 1-65000mS. This is the minimum length of time a debit pulse must be active for it to be considered a valid debit pulse.

- Sense time: This parameter applies to opto 1, which registers the price 1 pulse in standard mode or time vend mode and the debit pulse in steering mode.
- This parameter also applies to opto 2, which registers the price 2 pulse, in standard mode only.

Notes:

- *Setting the parameter to zero really sets it to 1 milliseconds, which might be enough time to flush out any noise.*
- *If Sense Time is set too short, the vend device could interpret noise as a debit pulse.*
- *If it is set too long, the machine might dispense free copies.*

Blind Time

This parameter is set in 1-millisecond increments, ranging from 1-65000mS. This is the length of time after a valid pulse when any further pulses registered by that opto are ignored. Pulses on the other opto in standard mode will be recognized if still active after blind time expires.

- Blind time: This parameter applies to opto 1, which monitors the price1 pulse in standard mode or time vend mode and the debit pulse in steering mode.
- This parameter also applies to opto2, which monitors the price 2 pulse, in standard mode only.

Notes:

- *Blind Time masks unwanted pulses (i.e., double pulses or "glitches").*
- *If this parameter is set too short, double debits could occur.*
- *If it is set too long, vends could be missed.*

Reset Delay

This parameter is set in 1-millisecond increments, ranging from 1-65000mS. The Reset Delay is the length of time that the relays stay energized after the job is terminated (i.e., the escrow value falls below the vend price). If escrow falls below the vend price, Reset Delay does not occur until after Sense Time has expired.

- Reset Delay: This parameter applies to optocoupler 1, which registers the price 1 pulse in standard mode or timevend mode and the debit pulse in steering mode.

- This parameter also applies to optocoupler 2, which registers the price 2 pulse, in standard mode only.

Notes:

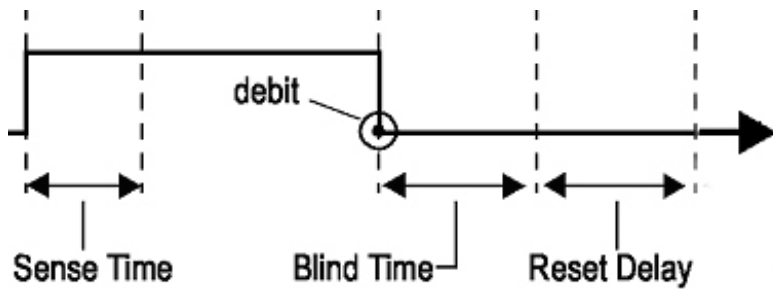
- *The host device must be kept on long enough for the job to complete (e.g., for the paper to get through the copier without jamming).*
- *Please ensure that the reset delay value is not set too long that another job may starts (and copies are dispensed for free).*

Trailing Edge

Set this parameter in Setup Express to Yes for trailing edge debiting and to No for leading edge debiting.

Trailing edge debiting

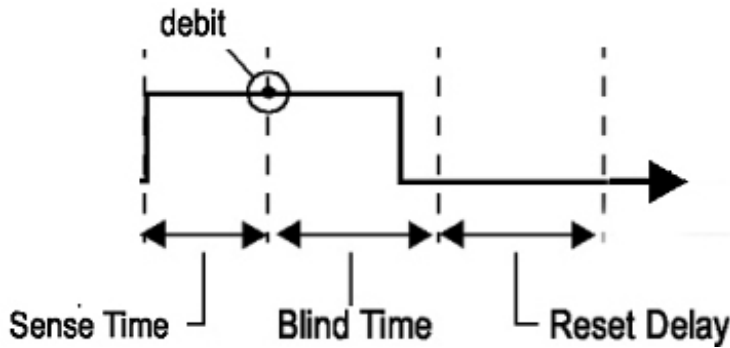
With this type of debiting, the software delays the debit until after the debit pulse goes inactive. This makes the 3396 Vending Station work with any device that requires a long debit pulse period to keep the relays energized. If the Sense Time count is satisfied, the software looks for the corresponding opto to go inactive. It waits for an indefinite length of time for this to occur. After the opto returns to inactive, the corresponding price is debited.



Note: Debit Pulse signal is generated by the copier signal through the copier interface while the copier is making copies.

Leading edge debiting

With leading edge debiting, the debit occurs right after the Sense Time delay is satisfied. Today's high-speed copiers generally work best with this type of debiting because their pulse lengths occur in very rapid succession. The Sense Time and Blind Time can be completed soon after the copier vend signal returns inactive, leaving the system ready for another pulse. If the Sense Time count is satisfied, the debit occurs as soon as the Sense Time delay is satisfied.



Note: Debit Pulse signal is generated by the copier signal through the copier interface while the copier is making copies.

Vending Interface

How the 3396 Vending Station and copier communicate

Every time a customer makes a selection on a vending device, such as a copier, pulses (signals) are detected by the Copy Vending Station through an optical isolator or opto. Optos allow the unit to see a particular signal condition inside the vending device. Based on the customer's selection, individual optos are turned on or off. The debit price is determined by the collective state of the optos. The software determines whether there is enough money to cover the vend, and if so, turns on a relay (switch) that enables the device to make the vend.

Advantages and disadvantages of the two methods

	Standard mode	Steering mode
Advantages:	<ul style="list-style-type: none">• Fewer wires• Easier setup• Time vending available	<ul style="list-style-type: none">• More prices available• Fewer relay settings
Disadvantages:	<ul style="list-style-type: none">• Fewer prices available• More relay settings	<ul style="list-style-type: none">• More complicated pricing structure• More complicated setup• More wires

Standard mode

In standard mode, the vending device can offer only two price selections. Each selection transmits its own debit pulse, which is registered in the 3396 Vending Station by an opto dedicated to that pulse. The corresponding relays enable the vending device at the appropriate price level.

1. The customer inserts cash into the coin mechanism to be added to escrow.
2. The escrow is compared with both price 1 and price 2.
 - If the value on in escrow is greater than or equal to price 1, the relay is enabled.
3. The customer makes a selection and presses the copy button.
4. The incoming debit pulse is detected by the corresponding opto. If the appropriate relay for that price level was enabled (i.e., there was enough value in the escrow), the escrow is debited and the copy is made.
 - If a price 1 debit pulse was detected by opto 1, the unit debits price 1.
 - If a price 2 debit pulse was detected by opto 2, the unit debits price 2.
5. The customer continues making copies. When the value in escrow falls below a price level, the corresponding relay is disabled, and subsequent debit pulses for that selection are ignored.

Steering mode

The 3396 Vending Station monitors two pulses from the vending device. Three of the signals carry information about the selection made by the patron. The other signal is the debit pulse.

Sequence of events

1. When the patron inserts a cash, opto 2 in the 3396 Vending Station register the selection conditions in the vending device to determine the vend price.
2. If the value on in escrow is enough to cover the price level selected, then relay enables the vending device.
3. When a vend is made, a debit pulse is sent from the vending device to the 3396 Vending Station. This pulse is registered by opto 1, and the appropriate price is debited from the cash. When the value in escrow falls below the selected price level, relay is disabled until either more money is inserted or a lower price level is selected.

STEERING MODE RELAY ACTION

If the value of the escrow	Then relay is
Is greater than the selected price	Enabled
Is less than the selected price	Disabled

Note: * Opto 1 registers the debit pulse and does not affect pricing.

How steering optos determine price

Think of an opto as a switch that is turned either on or off, depending on the information it receives from the signal it monitors. The selections made by the user are registered opto 2 in the 3396 Vending Station.

Steering 1-2 Prices	
Opto 2	Price Level
Off	1
On	2

Notes:

- *Opto 1 registers the debit pulse and does not affect pricing.*

Additional Notes: (for both modes)

- *Standard Mode is set as default.*
- *Relay and either Opto1 and Opto2 are used by Standard Mode.*
- *In steering mode, Opto1 is used for debit pulse and does not affect pricing.*
- *Time vend is active only in standard mode; steering mode does not support this feature.*

Standard Mode Configuration Example

Typical Copier Configuration:

Paper Sizes (in copier trays):

- Letter or Legal

Copier Interface:

- Debit Pulse 1 for Letter or Debit Pulse 2 for Legal
- Input Enable line to activate/deactivate the copier

Enable

- Input Enable line to activate/deactivate the copier

Typical Print/Copy Vending Station Configuration:

Using Setup Express:

- Set System Mode to Standard
- Configure Sense Time, Blind Time, Reset Delay, and Trailing Edge.
- Configure Price 1 to 0.10 (or other price) for Letter paper size and Price 2 to 0.10 (or other price) for Legal paper size.

The copier machine will need to use the correct VENDAPIN harness that would connect:

Debit 1-copy signal line connected to Opto1 input on Pin #3 & Pin #4 (9 pins 'A' cube connector).

Debit 2-copy signal line connected to Opto2 input on Pin #5 & Pin #6 (9 pins 'A' cube connector).

Input Enable line connected to Relay on Pin #1 & Pin #2 (9 pins 'A' cube connector).

Please note: you will need to test the vend operations and possibly re-configure the timing parameters on the unit until the debit pulses are correctly debiting the price from the escrow balance.

Note: *Please ensure that the jumpers on the board are set for Standard Mode. (See “Connectors and Jumpers” chapter for details).*

Steering Mode Configuration Example

Typical Copier Configuration: (i.e.: Black-White Multi-functional Copier/Printer)

Paper Sizes (in copier trays):

- Letter
- Legal

Toner Types

- Black White

Copier Interface:

Debit Pulse

- Debit Pulse 1 for Black-White using Opto1 input on Pin #3 & Pin #4 (9 pin 'A' cube connector).

Paper Size Selection based on copier interface using Opto2 input on Pin #5 & Pin #6 (9 pin 'A' cube connector)

- Letter Size Selection (Active Selection Logical Lines: 0)
- Legal Size Selection (Active Selection Logical Lines: 1)

Enable

- Input Enable line to activate/deactivate the copier using Pin #1 & Pin #2 (9 pin 'A' cube connector).

Note: *Relay is set to Normal Open*

Build Matrix based on known selections as shown here for **B-W** copies only:

Opto 2	Paper	Price Level	Prices	Notes
Off	Letter	1	0.10	(Open/Ground)
On	Legal	2	0.15	(5V-24VDC Input)

Using Setup Express:

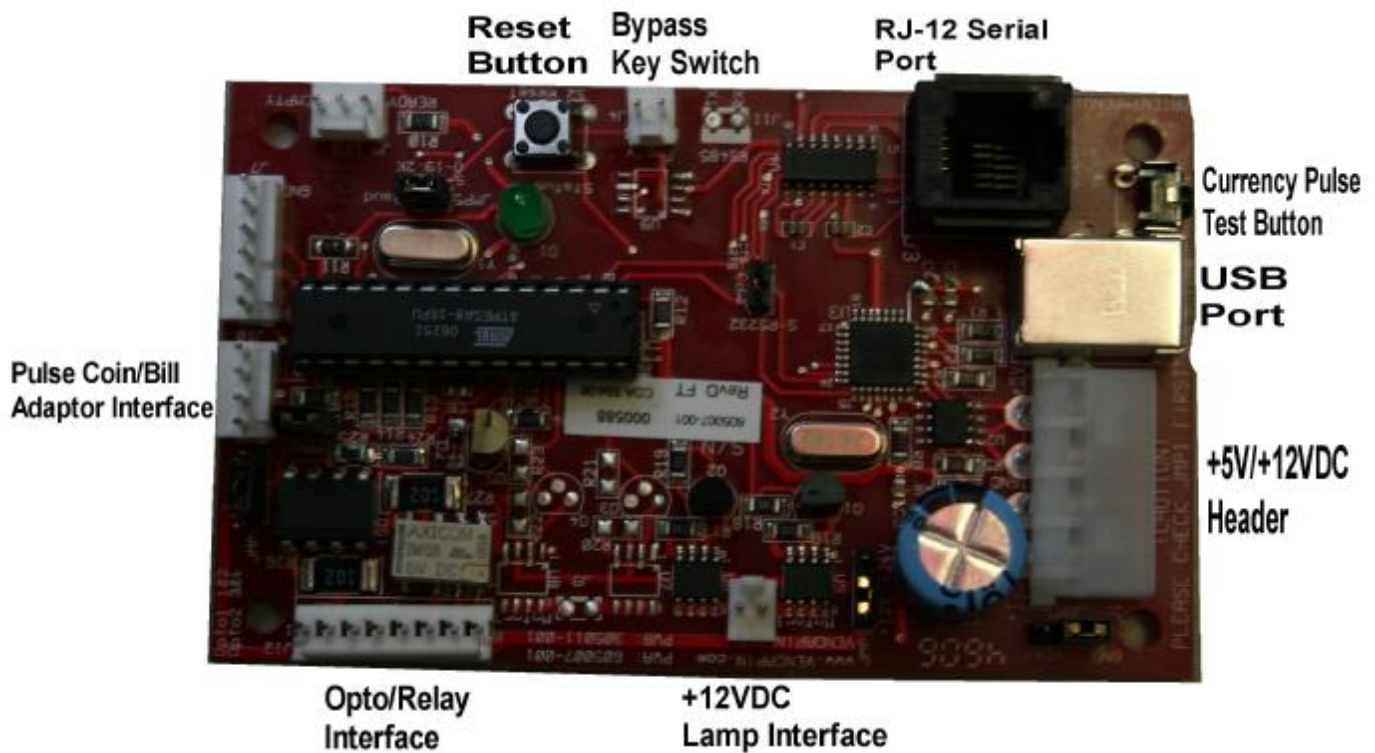
- Set System Mode to Steering
- Configure Sense Time, Blind Time, Reset Delay, and Trailing Edge.
- Configure Price 1 to 0.10 (or other price) for Letter paper size and Price 2 to 0.15 (or other price) for Legal paper size.

Connectors and Jumpers

Accessing to Ports, Connectors and Jumpers

VENDAPIN's Vending Access Control products use an 8 pin connector (J12) to interface with third-party vending devices. The 8 pin connector is a VENDAPIN standard for interfacing a VAC terminal to devices such as copiers, microfiche readers, and printers. Pre-assembled harnesses with installation instructions from VENDAPIN are available for most copiers.

VCB-2 board is used for 3396 unit operation. The connectors/buttons/headers as shown here are used for various purposes. The descriptions for the specific interfaces are listed below.



Actual VCB-2 Board used for 3396 Coin-op

PowerSupply Header (J1)	Description
White 1	+12VDC
Black 2	Ground
Black 3	Ground
Red 4	+5VDC

Baud Selection (JMP5)	Description
Open	19,200 baud (default)
Closed (Installed Shunt)	9600 baud

USB-RS-232 Selection (JMP3)	
Open	USB
Closed (Installed Shunt)	RS-232 (no Handshake)

Opto/Relay Interface (J12)	
Wire Color - PIN	Description
Red 1	Opto 1
Green 2	Opto 1
Violet 3	Opto 2
Yellow 4	Opto 2
Brown 5	Ground
Not Used 6	Relay N/C
White 7	Relay Common (Default)
Black 8	Relay N/O (Default)

Pulse Coin/Bill Adaptor Interface (J10)	
Wire Color - PIN	Description
Red 1	+12VDC (with JMP6 shorted)
Blue 2	Credit Pulse Line
White 3	Inhibit Line
Black 4	Ground

Button Option (for AutoVend Option) (J7)	
Wire Color - PIN	Description
Orange 4	Input
Green 6	Ground
Other Pins	Reserved

Notes:

- *Reset button can be used to reset the system to idle position. Escrow/Time vend times will be lost after the reset/power-cycle occurred.*
- *Currency Pulse Test Button is used for adding the value to escrow based on the currency pulse value configured by Setup Express. (example 5 pulses at 5 cents per pulse will add 25 cents to escrow.)*
- *Using Button for AutoVend option for Time Vend is used only if AutoVend option is disabled.*
- *Mechanical counter is connected to coin mechanism that will add one pulse for every currency pulse.*

Troubleshooting

Copier problems

The problems listed below result from timing parameters in the 3396 Vending Station not being synchronized with the timing of the copier.

Problem	Cause	Solution
Multiple debits occur on single vend	<ul style="list-style-type: none">• Sense time too short• Blind time too short	<ul style="list-style-type: none">• Increase sense time value• Increase blind time value
Free copies being dispensed: No debits occur No debit on last vend Skipped debits (on every other copy)	<ul style="list-style-type: none">• Sense time too long• Reset delay too long• Blind time too long• Bypass key left on	<ul style="list-style-type: none">• Reduce sense time value• Reduce delay time value• Reduce blind time value• Turn off bypass copy mode
Paper is jamming	<ul style="list-style-type: none">• Reset delay too short	<ul style="list-style-type: none">• Increase reset delay value

Notes:

- *Please ensure that you tested the copy vend using various paper sizes and copies on copier to verify that the vend timings are configured correctly.*
- *Please refer the additional timing configuration details found in “Coordinating Timing with the Copier Device” chapter on the next following pages.*

Clearing escrow

Turn on the bypass mode using bypass key. Escrow and time vend operations will automatically be cleared.

NOTES

Contact



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