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## **Certification Exhibit**

**FCC ID: ODB-POSMINI20  
IC: 11016A-POSMINI20**

**FCC Rule Part: 15.247  
IC Radio Standards Specification: RSS-210**

**ACS Report Number: 13-2026.W06.1A**

**Manufacturer: ValidFill, LLC  
Model: PS000SA004**

## **User Manual**

ValidFill Mini POS Manual



Edition 2014

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**Do not move the Mini POS unless power has been disconnected.**



**Do not open the Mini POS. There are no servicable parts inside.**



**The Mini POS should always be stored in a cool dry place away from sources of liquid.**

## Installation Instructions

1. Unpackage all components.
2. Place Mini POS on a level surface that is dry and clear of any obstruction.



**Prior to installation of the Mini POS insure that the location has a properly installed GFI outlet that has a power rating of 110V AC.**

3. Plug the 3 prong end of the power cord into the power outlet.
4. Plug the opposite end of the power cord into the Mini POS
5. Plug in Network Cable (Optional)
6. Wait approximately 45 seconds for the device to boot and load the software.



**All of the specifications and requirements noted here and in the Mini POS Specification and Requirements in Appendix A must be followed to avoid damage to the Mini POS and potential safety concerns.**

## Start-Up & Operating Instructions

### 3.1) Activate the Mini POS

The Mini POS will automatically turn on when plugged in. The unit will take approximately 45 seconds to boot. During this period the screen will remain dark. For the optional configuration of the unit the On/Off switch needs to be in the On position.

Once operational, the screen will be on and the program will be running. If unit does not start or needs to be reset you can do so via the reset button.



The reset button is located directly below the connector for the power cord and is accessible via the small hole. Using a small tool or a paper clip, insert it into the hole and toggle the switch.

### 3.2) The Cashier Card

After the initial boot, the unit enters a locked screen mode. In order to unlock the screen the operator will need a cashier card for that specific location.

The unit can be set to operate without a cashier card, however it is not recommended.

The unit will automatically lock itself after a predetermined time period that is decided by the customer.



### 3.3) Unlocking the Program with Cashier Card

To unlock the programmer place the Cashier Card on the top of the unit and touch the icon that looks like a lock on the screen.

Once the screen is unlocked remove the cashier card and you may begin programming cups.

*Warning:* If you fail to remove the cashier card you run the risk of reprogramming your cashier card. If this happens you will no longer be able to use the cashier card to unlock the station.

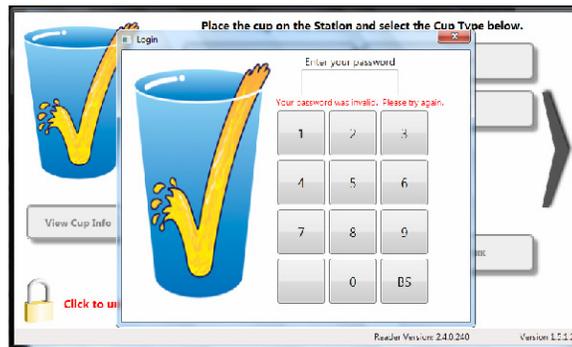


### 3.4) Unlocking the Program with PIN number

To unlock the programmer touch the icon that looks like a lock on the screen.

A PIN pad will immediately appear on the screen allowing you to enter your predetermined 4 digit PIN code.

Once the Station is unlocked you can begin normal use. Once you're finished you can lock the programmer either by touching the Lock Icon or the programmer will lock itself after the predetermined amount of time.



# Programming Cups, Getting info, & Optional Features

## 4.0) Program Buttons

Each Mini POS has the capacity of 10 different buttons per screen all capable of having a different offer assigned to the button. In addition to these 10 buttons you also have a Cup Info button that can give you detailed information on any cup presented to the unit.

### 4.1) Place Cup on the Mini POS

To Program a cup, place the cup on the top of the unit. Insure the cup is flush on the unit with nothing, including liquid, between the cup and the programmer.



#### 4.2) Choose the Offer

Each offer will be clearly detailed on one of the available buttons. Touch the button 1 time to program the cup. If you touch the button more than once, you will most likely be programming additional fills onto the cup.

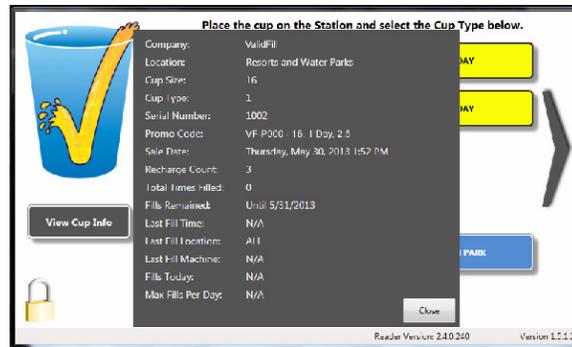


Once the cup has been successfully programmed you will see a Pop-up message that says, "The Cup has been Successfully Programmed." If you receive an error message insure the cup has a tag that is properly installed and valid for the location.



#### 4.3) Cup info

In the bottom left of the screen there is a permanently fixed button that you can use to see the information that is programmed to the cup. Place the cup on top of the unit and touch the "View Cup Info" button.

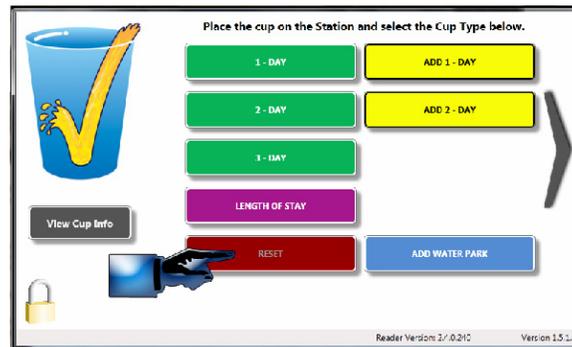


#### 4.4) Cup info Defined

- Company - The company that the cup is valid for.
- Location - The location within the company that the cup is valid for.
- Cup Size (in Ounces) - The cups size pertains to how many ounces of beverage can be poured into the cup not factoring ice.
- Cup Type - This can either be a hot beverage cup or a cold beverage cup
- Serial Number - A unique number programmed on every tag. The number allows us to track the cup through all stages of its use.
- Promo Code - A unique code assigned to the cup program that was written to the cup. This code will allow you to easily identify the program in use and also allows ValidFill to track how many of a certain program has been used.
- Sale Date - This date can be either the date the cup was programmed or the date the cup was first presented to the machine. The refill period will begin based on this date.
- Recharge Count - A total number of how many times the cup has had additional fills added to it.
- Total Times Filled - A total number of how many times the cup has been filled.
- Fills Remaining - The number of fills the cup has remaining before it expires.
- Last Fill Time - The timestamp of when the cup was last used.
- Last Fill Location - The last location in which the cup was used.
- Last Fill Machine - The last machine on which the cup was used.
- Fills Today - A total number of how many times the cup has been filled on the current date.
- Max Fills Per Day - The number of times the cup can be filled that day.

#### 4.5) Resetting a Cup

In the event a cup is misprogrammed with either too many fills or perhaps the wrong program all together your programmer can come optionally equipped with a RESET button. You can reset the fills by placing the cup on the programmer and touching the reset button.



Resetting the Cup removes all fills from the cup. To insure that you don't reset a cup by mistake, a warning prompt will display to verify that you do want to reset the cup. Touch Yes to reset the Cup.

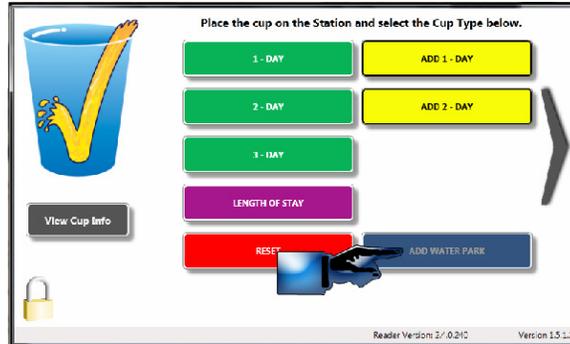


There are a few things that you can not change by resetting the cup:

- The Size of the Cup
- The Company the Cup is Programmed for.
- The Location where the Cup is Programmed to work.
- The Serial Number.

#### 4.6) Changing Locations

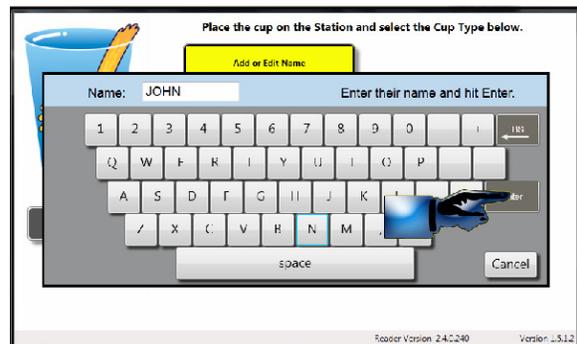
All Cups are programmed with a specific location. This location is the only location that is allowed to use the cup. For instance let's say a cup is programmed for use at Resorts but it is not available for use at the joining Water Themed Park. We can allow the activation of that cup for the Water Park. To do this just touch the "ADD WATER PARK" or similarly named button and the location will be changed to one that will allow the usage of the cup.



This feature only adjusts the location information and does not modify or reset the cup in any other way.

#### 4.7) Adding and Editing Names

Adding names to the cups allow for a personalized touch to the system. This optional feature will code the person's name at the time of programming or can add or edit a name at a later time.



To add or edit the name place the cup on the programmer and touch the designated button which will launch the Keyboard. Type in the name, then touch the Enter Key to save the name to the cup. Use the same steps to edit a cup.

#### 4.8) 2 Screen Optional Configuration

As mentioned in section 4.0, each screen has a 10 button capacity. To increase the offer potential or for running multiple programs on the same unit, we have an option configuration that will give the POS a second screen to host an additional 10 buttons.

To access the second screen touch the arrow on the right of the screen to move to the second screen.



Once you're on the second screen, you can operate it in the same manner as the first screen. When you are ready to return to the first screen, touch the arrow on the left side of screen to go back to the first screen.



The lockout time still applies to the second screen and it will automatically lock after a specified set amount of time.

# The ValidFill System: How It Works

## 5.0) The RFID Specific Components Defined

In the ValidFill system there are three main radio frequency Identification (RFID) specific components that make the system work:

### 5.1) RFID Tag

An RFID tag (also known as a transponder) is programmed with information that uniquely identifies itself. These tags are located on the bottom or between the shell and the liner of the Whirley-DrinkWorks' refillable mugs used with the ValidFill system. Each individual tag holds information that is unique to that tag such as size of the cup, company name, date the cup was purchased, where it was purchased, how many times it has been used, how many refills remaining, and multiple other fields of data.



### 5.2) RFID Reader

An RFID reader (also known as a transceiver) translates the information that is programmed onto the tag into a format the computer software can interpret and send out the proper commands.

### 5.3) RFID Antenna

An RFID Antenna, located in the top of the POS MINI, transmits a small radio signal that has been generated by the RFID reader.

## 6.0) An Overview of How the Mini POS System Works

On the bottom of your RFID tagged refillable mug or disposable cup is an RFID tag that is uniquely identified by the information that is stored on that tag.

When the button on the Mini POS is touched, the antenna is turned on and produces a small radio signal. With the mug or cup sitting squarely on the top of the unit, the radio signal activates the tag.

If no tag is present when a button is touched, the following text is displayed: "Place the cup on the station, please try again."

With the tag present, the antenna reads the information stored on that tag and sends it to the Mini POS.

The Mini POS processes this information and responds by doing one of the following: programming the cup, displaying an error message, or displaying the information stored on the cup's RFID tag.

## 7.0) Placing Tags on Disposable Cups

In order to insure proper function of disposable cups it is imperative that all tags be placed in the exact center of the cup. Any deviation may cause your disposable cups to be misread or not read at all by the system.

The following are examples of the correct way to center the tag and the incorrect way.

### 7.1) The correct way

This example demonstrates the correct placement of the tag on the bottom of the cup. The goal should be to center the white tag on the exact center of the cup.



### 7.2) The incorrect way

This example demonstrates the incorrect placement of the tag on the bottom of the cup. Notice the tag does not need to be far from center to be considered incorrect.



## ValidFill-Freestyle Mug Program Options

### 8.0) Options Detail

The Following Table details the various mug program options available. Within the table each program has a description which explains the way each type of program expires followed by examples, and the messaging you will see.

Program	Descriptions	Examples	Messaging to Consumer
Set Number of Fills	Mug is authorized for a specific amount of fills	5 Fills 10 Fills 25 Fills	FILLING (X) OF (Y) DRINKS
Unlimited Fills for Select Days	Mug is authorized through a specific date	1/30/2012 12/31/2012 9/1/2012	UNLIMITED REFILLS UNTIL XX/XX/XX
Unlimited Fills For Select Time	Mug is authorized for a specific number of minutes or hours	24 hours 1 hour 30 minutes	UNLIMITED REFILLS FOR THE NEXT XX MINUTES
Set Number of Fills over Select Time	Mug is authorized for a specific number of fills that have to be consumed within a specific number of minutes or hours	2 Fills within 40 minutes 5 Fills within 24 hours 4 Fills within 2 hours	X REFILLS REMAINING FOR XX MINUTES

NOTE: A company can run multiple programs to expand the potential offers.

# Mini POS Troubleshooting Guide

## 9.1) Basic Troubleshooting Guide

Should the unit stop operating, check the power cord to make sure it is plugged into the UPS or power strip and securely plugged into the back of the POS MINI. If the optional UPS is used with your system, be sure that the UPS is turned on. Then proceed by confirming that all of the cables are plugged in to the correct places as illustrated in the POS MINI Cable & Lights Location Diagram in Appendix B.

After checking all cables and your power source, attempt to restart the unit via the reset switch.

If after doing the above, the unit is still working improperly, please proceed to the advanced troubleshooting guide.

## 9.2) Advanced Troubleshooting Guide

9.2.1) The Mini POS will not turn on. “No LED lights are illuminated on the unit.”

1. Is the Mini POS’s power cord plugged into the available power source and securely plugged into the back of the Mini POS?

YES – Proceed to the next step.

NO – Plug in and wait approximately 45 seconds for the Programmer to turn on.

2. Is the On/Off switch in the On position indicated by an illuminated Red LED light?

YES – Reset the Mini POS via the reset switch. (See Appendix B)

NO – Call ValidFill Support.

9.2.2) The monitor is black but the Mini POS is running.

1. Is the Green LED on the top right of the monitor illuminated?

YES – Reset the Mini POS via the reset switch. (See Appendix B)

NO – Call ValidFill Support.

9.2.3) The Mini POS will not program a cup.

1. Are you using a valid cup with an RFID tag on it?

YES – Proceed to the next step.

NO – Use a valid cup with an RFID tag on it and retry. If the problem persists, continue to the next step.

2. Is the Cup centered on the top of the Mini POS?

YES – Proceed to the next step.

NO – Insure you are centering the cup precisely so the tag can be properly interacted with.

3. Is the screen locked?

YES – Retrieve a valid Cashier Card and unlock the screen.

NO – Proceed to next step.

4. Does the Screen say, “Initializing Reader?”

YES – Reset the Unit via the reset button. (Please refer to Diagram in Appendix B)

NO – Proceed to next step.

5. Can you program other cups?

YES – Give the customer a new cup and send the defective cup to ValidFill for analysis.

NO – Call ValidFill Support.

## General Statements:

*Warning: Changes or modifications to this device not expressly approved by (ValidFill, LLC) could void the user's authority to operate the equipment.*

## FCC Specific Statements:

### Class B Device:

*"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help."*

### RF Exposure:

*"This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."*

## Canada Specific Statements:

*Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.*

*Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.*

### Standard Warranty

ValidFill, LLC warrants to the original purchaser of each new ValidFill RFID Mini POS (“Product”) that all parts shall be free from defects in material and workmanship under normal use and service for a period during the Warranty Period. The Warranty Period for all parts will be 1 year from the date of startup or 90 days from shipment date, whichever comes first. During the Warranty Period, the sole and exclusive remedy of the buyer, and ValidFill LLC’s sole and exclusive obligation, shall be to repair or replace any parts of the Product found to be defective, subject to the conditions stated below.

#### Warranty Conditions

1. Warranty labor must be performed by the local ValidFill authorized service agent.
2. The equipment must be installed and operated in compliance with instructions provided by ValidFill, LLC.
3. Malfunctions or damage due to alterations, improper operation, neglect, vandalism, fire, acts of God or any situation beyond ValidFill LLC’s control are expressly excluded from this warranty.
4. ValidFill, LLC reserves the right to require that any parts covered under this warranty be returned to ValidFill prepaid and verified as defective upon examination.
5. Any damages resulting from shipment of the unit are expressly excluded. ValidFill LLC advises customers to carefully examine all shipments prior to acceptance and note all potential damage concerns on the appropriate shipping papers.
6. Excess labor charges resulting from security clearance procedures, safety training, etc., will not be covered by ValidFill, LLC and are the responsibility of the equipment owner.
7. This warranty is non-transferable and applies only to the original purchase of the Product.

**THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.** In no event will ValidFill, LLC be liable for any consequential, incidental, or punitive damages, whether arising under contract, warranty, tort, negligence, strict liability or any other theory of liability, including but not limited to loss of profits, loss of use of the Products, or loss of goodwill.

Notwithstanding whether any remedy fails of its essential purpose or otherwise, in no event shall ValidFill, LLC’s liability for any Products supplied hereunder exceed the purchase price paid by buyer to ValidFill, LLC for the applicable Products, regardless of whether the claim is based on contract, tort, warranty or any other theory of liability.

Questions concerning this warranty should be directed to ValidFill, LLC at 941-379-9858.

## Appendix A: Mini POS Specifications



Total Space Requirements	7.25" Deep x 8.5" Wide x 7" High
Temperature Ratings	0 - 50 Degrees C/32 - 122 Degrees F
Input Requirements	100 - 240 V; 1.2 Amps; 50 - 60 HZ
Humidity Requirements	20% - 90% RH
Special Considerations	Must be protected from water



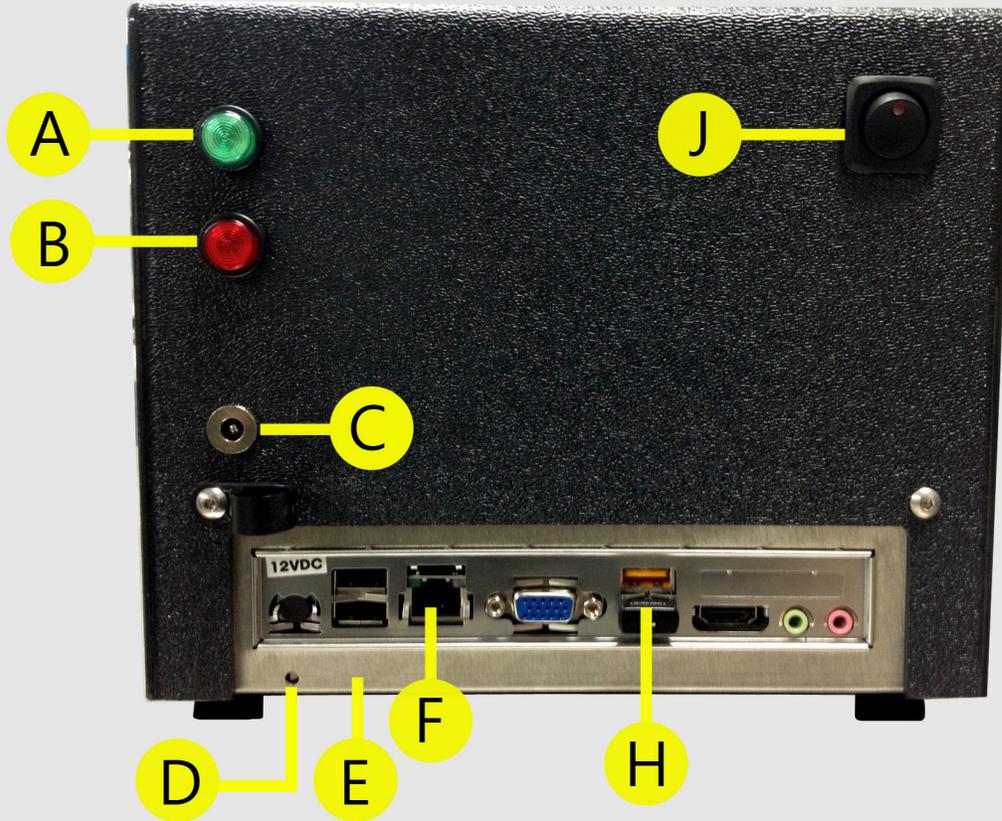
### Power Cord Specifications

Total Length	9'
AC to Brick	46"
Brick to DC	57"
Brick	4.5"x1.75"x1.25"

## Appendix B

# Cable & Lights Location Diagram

Located on the back of the Mini POS (Optional Configuration)



A	HDD Light	Indicates that the Hard Drive is functioning
B	Power Indicator Light	Indicates that the unit has power
C	12V DC Power	Location for Power Cord
D	Reset Switch	Resets the unit
E	USB	Location for USB Keyboard/Mouse or Thumbdrive
F	CAT 5 Network	LAN connection location
G	VGA Monitor	(NOT USED)
H	High Current USB	Location for Trednet USB adapter
I	Audio	(NOT USED)
J	On/Off Switch	Turns on the Mini POS
K	HDMI Port	(NOT USED)