

POS 208 / 808

*INTELLIGENT
CASH DRAWER
WEDGES*

USER'S MANUAL

DISTRIBUTED BY



MADE IN CANADA



Table of Contents

Introduction	3
POS 208 Installation	4
POS 808 Parallel Installation	5
POS 208/808 Parallel Mode Hardware Test	6
POS 808 RS Serial Installation	6
POS 208/808 RS Serial Mode Hardware Test	7
POS 208/808 Windows 95/98/2000 Configuration Utility Install	7, 8
Configuration Utility Uninstall	8
Working with Configuration Utility	8, 9, 10
Troubleshooting	10, 11
NULL Adapters	11
Warranty	11

<p style="text-align: center;">POS 208 Kit Contents</p> <p style="text-align: center;">POS 208 Wedge User Manual DB9/DB25 'Y' Ribbon Cable Windows 95/98/200 Config. Utility Disk</p>	<p style="text-align: center;">POS 808 Kit Contents</p> <p style="text-align: center;">POS 208 Wedge User Manual DB9/DB25 'Y' Ribbon Cable Windows 95/98/200 Config. Utility Disk 24 VDC power supply</p>
--	--

POS 208 / 808 Dimensions and Specifications	
Communications:	Parallel or Serial DB9 / DB25 'Y' ribbon cable
Power:	24 volt DC external power adapter (POS 808 only)
POS 208 Dimensions:	90mm x 110mm (WxL) PCI card
POS 808 Dimensions:	37mm x 72mm x 72mm (HxWxL)
POS 808 Weight:	210 grams
Operating Environment:	0C (32F) to 70C (158F), 10%-90% relative humidity

DISCLAIMER

POSH Mfg. makes no claims or warranties with respect to the contents or accuracy of this publication or the product it describes, including warranties of fitness or merchantability for a particular purpose. POSH Mfg. shall not be liable for any special, incidental or consequential damages, nor damages due to use or misuse born from integration into any mechanical, electrical or computer system. POSH Mfg. is not responsible for the accuracy of any device connected to the POS 808. POSH Mfg. reserves the right to make any changes to this manual or product(s) without the obligation to notify any person of such changes. Warranty is void if case is opened by anyone other than POSH Mfg.'s repair department or authorized repair centres.

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

TROUBLESHOOTING Continued

POS 208/808 PARALLEL MODE:

A) Problem: *The drawer does not open.*

Possible solutions:

1. Make sure the cash drawer is in the unlocked position.
2. Make sure that your communication cables are connected properly and that cash drawer #1 and power adapter (POS 808 only) are connected.
3. Make sure that the printer is on and online, ready to print. You can use the 'COPY CON LPT1:' command to copy data to the printer. The printer must be able to print data before any further testing of the POS 208/808 wedge can continue.
4. Repeat the Hardware Test on page 6.

POS 208/808 SERIAL MODE:

A) Problem: *The drawer does not open.*

Possible solution(s):

1. Make sure the serial port parameters of your computer matches the POS 208/808. (Refer to Configuration Settings on page 9.)
2. Make sure the cash drawer is in the unlocked position.
3. Make sure that your communication cables are connected properly and that cash drawer #1 and the power adapter (POS 808 only) are connected.
4. Make sure that the printer is on and online, ready to print. You can use the 'COPY CON LPT1:' command to copy data to the printer. The printer must be able to print data before any testing of the POS 208/808 wedge can continue.
5. Repeat hardware test on page 7.

GLOSSARY

DCE — Data Communication Equipment

DTE — Data Terminal Equipment

NULL Adapter — Emulate a device being attached on the selected port

These adapters will allow you to test the POS 208/808 without having a printer attached to the monitored port.

DB25 Male Parallel NULL Adapter	POS 208	POS 808
PIN 1 - PIN 10	Set jumpers	Slide switch to
PIN 11 - PIN 20	H1 and H2	NULL ON
PIN 12 - PIN 21	ON for	position
PIN 13 - PIN 14	NULL	
PIN 15 - PIN 16	Option	

WARRANTY

The POS 208/808 is backed by a two year parts and labour warranty. Should you have problems with your POS 208/808 device please contact the dealer from whom you purchased the product.

Writing to EEPROM continued

2. Input the set of characters that will trigger the appropriate pulse.
3. Enter the duration that each pulse will be sustained. Time units are seconds.
4. Enter the appropriate serial settings to match the Serial Port Setup window (accessible through the **View** menu option) if applicable.
5. Press the **Write** button to write the new settings to the unit.
6. Proceed to the next section below "**Testing trigger Characters**" to test the new configuration.

Testing Trigger Characters

To test the current trigger characters on the POS 208/808, follow these easy steps:

1. Select the appropriate communication port.
2. Input the trigger characters to use for the test.
3. Click "Test Pulse #1" or "Test Pulse #2" (POS 808 only) to send the appropriate characters. (The LED on the POS 208/808 will flash on and off if the characters triggered a pulse.)

TROUBLESHOOTING

POS 208/808 CONFIGURATION UTILITY:

A) Problem: *I don't know the serial settings on the POS 208/808?*

Possible solution(s):

1. Using the parallel port on your computer, write a new configuration to the EEPROM with a known serial setting.

B) Problem: *The POS 208/808 is not triggering a pulse.*

Possible solution(s):

1. Power down the unit and power it up again.
2. Double check that you have the correct trigger character selected.
3. Double check that you have the correct serial port setup if you are using a serial interface.
4. Rewrite the configuration to the EEPROM using the parallel interface. (See page 9)

C) Problem: *"Error Sending Data to LPT (1, 2, 3)"*

Possible solutions:

1. Double check that a printer is on and online or NULL adapter is attached to the 'Y' ribbon cable.

D) Problem: *The LEDs are not flashing during write procedure to EEPROM.*

Possible solutions:

1. Double check that the unit is powered up.
2. Double check that a printer is on and online or a NULL adapter is attached to the 'Y' ribbon cable.

Troubleshooting continued on next page

POS 208 / 808

INTELLIGENT PARALLEL OR SERIAL WEDGE

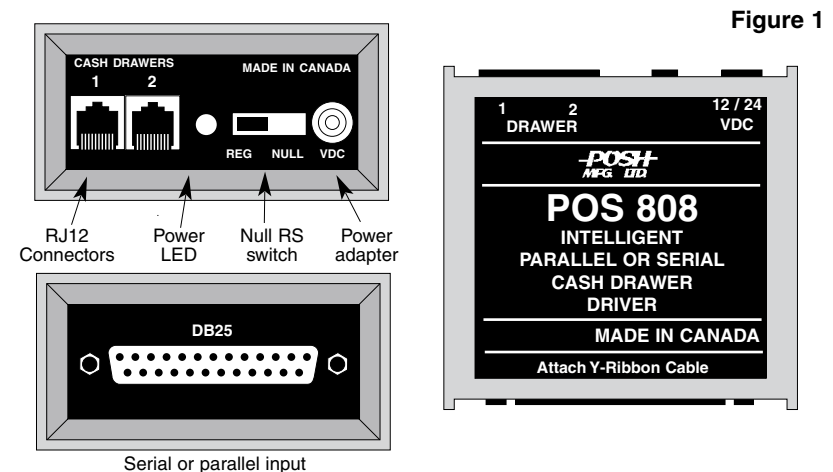
INTRODUCTION

The POS 208 / 808 wedge is one of the most compact cash drawer opener wedges you can buy. The POS 208 / 808 wedge provides the following features:

- Compact design with built-in wedge
- Easily installed and adapted to any software
- Will not false trigger upon power up/down
- Built-in drawer alarm, beep sounds after drawer left open more than 30 seconds
- A 24 VDC pulse is generated at the RJ12 output jack to trigger any 12/24 volt cash drawer (24 VDC and 12 VDC POS 208 only)
- Monitors all characters at the selected port and will only open the cash drawer on preselected characters
- Non-interactive device, the POS 208 / 808 listens to the data lines only
- POS 808 supports two drawers, POS 208 supports only one drawer
- No dedicated parallel or serial port required, can share the port with any device
- Custom character triggering available
- As a serial wedge, the POS 208 / 808 listens to the Tx/D or Rx/D data line. Selectable Rx/D or Tx/D line for DCE or DTE
- **The POS 208 / 808 Wedge default setup is Parallel.**

With this flexibility we guarantee that the POS 208 / 808 wedge will work with more systems, and with more combinations of hardware and software than any other device on the market today.

The POS 208 / 808 is a non-interactive device, which is very much like a second telephone extension on a single telephone line. The POS 208 / 808 will only listen to the conversation between the system and the device. When the system sends the specific characters (default is BELL) to the device, the POS 208 / 808 will trigger open the cash drawer. The receiving device may sound a buzzer or ignore the character.



POS 208 PARALLEL/SERIAL MODES

POS 208 PCI CARD INSTALLATION

1. **Default is 12 VDC.** If 24 VDC is needed, use jumper to connect 'J4' (see Figure 3).
2. Select Null RS port only if no device will be connected to the RS port of the computer (see Figure 4).
3. Turn off computer and all attached peripherals then remove computer cover.
4. Remove empty slot rear panel cover by removing the screw on the top.
5. Align the POS 208 with PCI expansion slot and press card into place.
6. Replace top screw and replace computer cover.
7. Attach cash drawer cable to the RJ12 connector on the POS 208, attach 'Y' cable to POS 208 (figure 2), attach device to parallel/serial port on 'Y' cable.
8. Turn on computer and run application software.

NOTE: In order to use the POS 208 as a serial device, you must use the POS 208 in parallel mode in order to configure the serial port and options using the Windows Configuration Utility. If no printer is attached, a null serial adapter must be used.

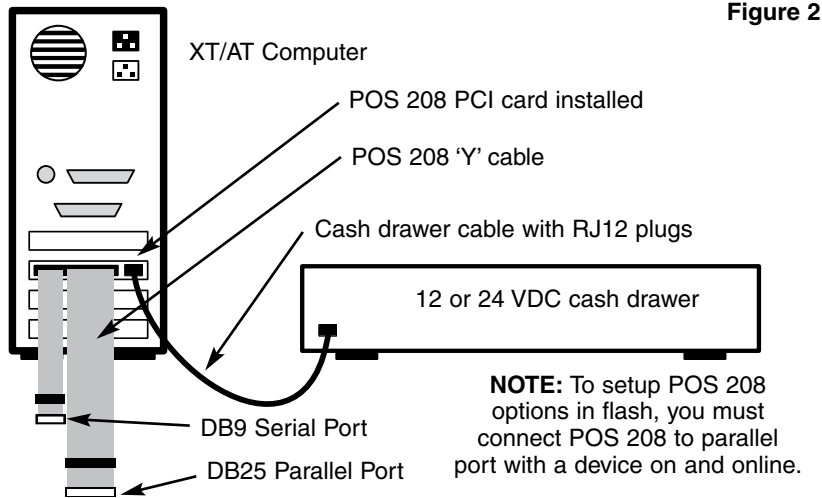


Figure 2

POS 208 DRAWER VOLTAGE SELECTION

Figure 3



Communication Port

The POS 208/808 wedge can be configured to use a parallel or serial port. Changes to the EEPROM settings can be accomplished only by using the communication port setting.

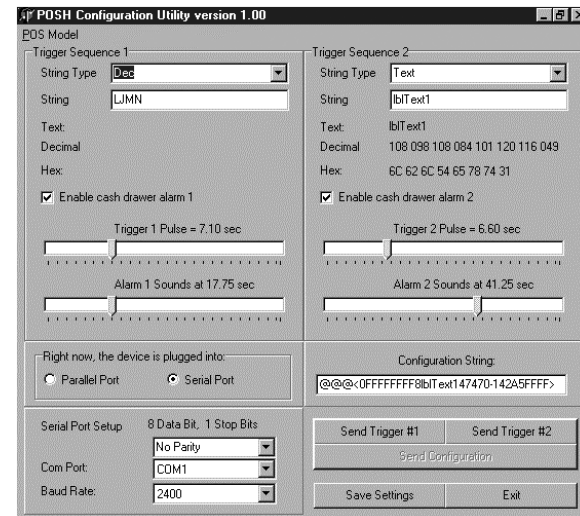
Set the serial communications to match the current serial port settings using the configuration utility to communicate with the POS 208/808 wedge.

Parallel Port

This utility can be used with LPT1, LPT2, or LPT3 parallel port setting.

Trigger Characters

The POS 208/808 wedge has the capability to trigger a pulse on any string of ASCII characters up to a maximum length of 7 characters for each port.



Pulse Duration

Each pulse triggered by the POS 208/808 wedge can be sustained for any length of time up to 25 second. Values entered are expected to be in seconds. Quarter and half second intervals are valid. The configuration utility will automatically correct invalid time intervals to the nearest valid value. Valid values are in the range of 0.25 to 25.5 seconds via a sliding bar selector for each port.

Writing to EEPROM

Configuration changes to the POS 208/808 can be easily changed using the following steps:

1. Select parallel port.

Continued on next page

To choose a different location, press the **Browse** button and select a new location. Press **OK** to accept your choice and then press the **Next** button to proceed to the Program Folder Window.

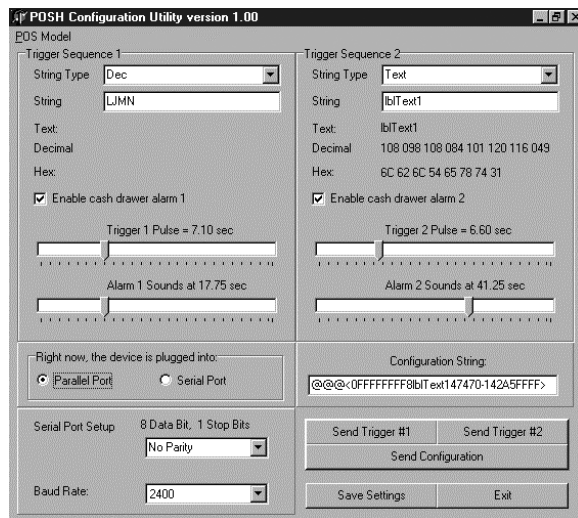
- Press **Next** to accept the default program folder or type in a different name in the **Program Folders** field. To select an existing folder, click on any of the choices provided in the **Existing Folders** field.
- Press Next to start the process of copying files to your system.
- Select **“Yes, Launch the program file”** if you wish to start the program immediately after the installation has completed. Press **Finish** to complete the installation.
- You can start the program anytime by selecting “POS 208/808” from the **Programs** folder in your start menu.

SOFTWARE UNINSTALL PROCEDURE:

To remove the utility program, it is recommended to use the Windows Uninstall program as described below.

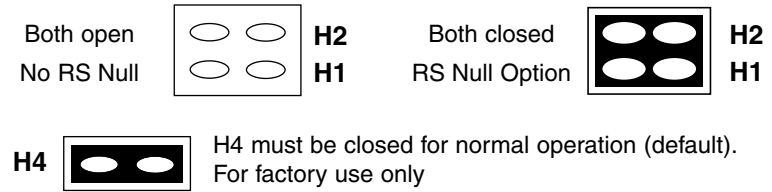
- Open the Windows Control Panel and double-click on the Add/Remove Programs icon.
- From the list of programs that are displayed, select the program group in POS 208/808 Configuration Utility. (The default group is POS 808).
- Press Add/Remove to allow Windows to remove all the relevant files and registry entries.
- Press OK when the procedure has completed.

WORKING WITH THE POS 208/808 CONFIGURATION UTILITY



POS 208 RS NULL OPTION

Figure 4



POS 808 PARALLEL/SERIAL MODES

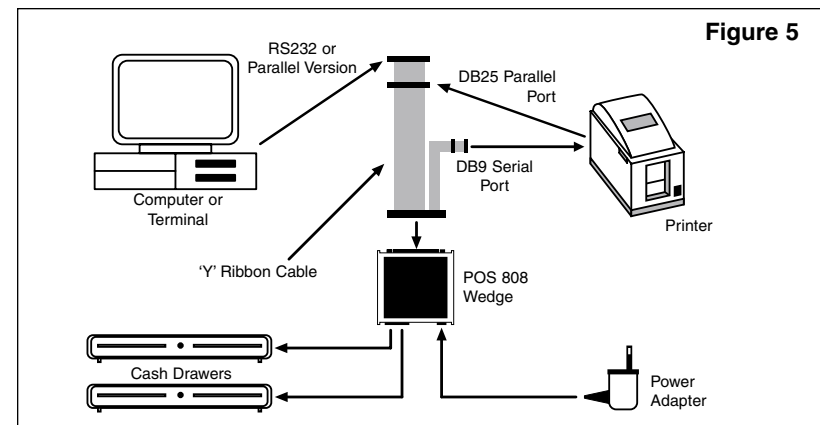
HOW THE POS 808 WORKS:

The POS 808 parallel/serial wedge is installed between the parallel/serial port and the parallel/serial device. The special design of the wedge allows for easy installation without the need of any special cables. An AC/DC external power adapter supplies the power to drive open the cash drawer and the POS 808 wedge.

The POS 808 parallel/serial wedge monitors all the characters which are sent to the parallel/serial device. When the preselected characters are detected on the parallel/serial port, an electrical pulse will be generated to open the cash drawer.

POS 808 PARALLEL INSTALLATION:

Turn off the system, disconnect parallel printer cable from back of the system and insert POS 808 wedge using ‘Y’ cable supplied. Connect printer cable to wedge, (Figure 5) plug cash drawer to RJ12 connector and plug AC/DC adapter to POS 808 wedge. **NOTE: A device must be connected to the parallel port, must be on and online for setup or testing. Use a null adapter if no printer is attached.** Turn on your system and run your application program. The green LED should be on.



POS 208 / 808 PARALLEL MODE HARDWARE TEST:

NOTE: All hardware testing can be done with the Windows 95/98/2000 utility, see page 8. The following testing procedures are intended for DOS users.

Default Trigger Characters: Drawer #1 - Control G, #2 - Control Y

Use the DOS command COPY CON (Port): to open drawer #1.

Example:

```
COPY CON LPT1:<Enter>
^G^Z<Enter> (^G = Control G, ^Z = Control Z)
```

This command will trigger cash drawer #1, using the bell character on parallel port LPT1. **Cash drawer #2 will trigger using ^Y (control Y).** The same command can be used with LPT2.

POS 808 RS SERIAL INSTALLATION:

Turn off the system, disconnect serial printer cable from back of the system and insert POS 808 wedge using 'Y' cable supplied. Connect printer cable to wedge, (Figure 5) plug cash drawer to RJ12 connector and plug 24 VDC adapter to POS 808 wedge only. **If a serial printer is not attached to the system, a NULL adapter must be used in its place.** Turn on your system and run your application program. The green LED should be on.

NOTE: In order to use the POS 808 as a serial device, you must use the POS 808 in parallel mode in order to configure the serial port and options using the Windows Configuration Utility. If no printer is attached, a null serial adapter must be used.

NOTE: For ease of explanation, all examples are based on the serial port of a 386 or 486 system, (DCE) with default settings.

RS NULL OPTION POS 808 ONLY

Figure 6



The POS 208/808 serial wedge is very easy to install once you understand the operation of a serial device. A serial port is a means of sending data to a device such as a modem or a printer. How the data is transmitted to the device is what constitutes the serial port. A serial port sends data to a device one bit at a time through a single data line. The receiving device must read each data bit at a specific time and manner. There are no specific configurations for a serial device. Hence, the serial port must be set up by the system every time you wish to use the port. The serial port on a system, for example, is configured by DOS with a default of: 2400 baud, 8 data bits, 1 stop bit, no parity, (DCE).

The port configuration can be changed to other settings depending on the device you have connected to the port. Therefore it is important that the system and the receiving data be configured the same way in order to get proper data transfer. The serial port

can be automatically configured via DOS using the MODE command or by the application software setup. Refer to your system or device operating manuals for specific serial port setup. The device on the serial port is usually configured by switches or jumpers for specific baud rates and data format, refer to your device hardware manual.

Once you have established the settings of the system and device you are ready to install your POS 208/808 serial wedge. Because the POS 208/808 is a serial device, it, too, must be configured to the same configurations as your device. The POS208/808 configurations can be changed with the Windows 95/98/2000 Utility.

POS 208 / 808 RS SERIAL MODE HARDWARE TEST:

NOTE: All hardware testing can be done with the Windows 95/98/2000 utility, see page 9. The following testing procedures are intended for DOS users.

DEFAULT SERIAL SETTING:

BAUD: 2400 FLOW PARITY: N STOP BITS: 1

1. Set COM1: communications parameters using DOS 'MODE' command.

Example:

```
MODE COM1:2400, N, 8, 1
```

This will set the communications port for 2400 baud, 8 data bits, no parity, 1 stop bit.

2. Using DOS command COPY CON (Port): to open drawer

Example:

```
COPY CON COM1:<enter>
^G^Z<enter> (Control G, F6)
```

This command will trigger cash drawer #1, using the BELL character on serial port COM1. Drawer #2 will trigger using Control Y (^Y). The same command can be used with COM2.

WINDOWS 95/98/2000 CONFIGURATION UTILITY

To install the POS 208/808 Configuration Utility, follow the installation procedure as described below.

Software Installation Procedure

1. Run "setup.exe" from the directory where the installation files are located. (eg. a:\setup) The initial window of the setup program will appear.
2. Press **Next** to continue and the User Information Window will appear. Type in the name and company information for the user of this software. Press **Next** to continue and go to the Destination Location Window.

At any point during this installation you can navigate to the previous screen by pressing the **Back** button or cancel the installation by pressing the **Cancel** button.

3. Press the **Next** button to accept the default location for the utility program files.

Continued on next page