



User's Installation Guide



SP7 - V1 EFT-POS Terminal

Always pay right !

Stylish, Powerful & Trusted Pay-Way

Demco corp.

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1. Introduction

Thank you for choosing Demco's SP7 EFT-POS terminal!

This manual will guide you from basic setup to operation of SP7. It will help you to familiarize yourself with SP7 terminal and will be useful for anyone installing and using SP7 terminal.

SP7 terminal represents a new generation of electronic payment solution equipped with the following features;

- **Powerful & Fast transaction**
 - MIPS 32 bit RISC processor
 - Multiple range of communication interface
- **True multi-application capability**
 - Large memory capacity of 16 MB Flash, 16MB SDRAM
- **User-friendly & Ergonomic design**
 - Large graphic display
 - Compact & handy design
 - Neat & tidy cable management to avoid messy tangles
- **Easily customizable and highly flexible**
 - Easy Linux open platform
 - Customizable color and logo
- **Environment friendly**
 - Minimal packaging material
 - ROHS compliant
 - Constructed entirely from recyclable plastics

2. Getting Started

2.1 Unpacking the shipping carton

In the original shipping carton of SP7 EFT-POS terminal, there are 4 contents, a SP7 EFT-POS terminal, a power supply unit, and a user's manual.

Inspect carefully if there is any damaged or missing components.

① SP7 EFT-POS terminal



Remove the protection film from LCD screen.

② Power supply unit



This power adaptor is specially designed for SP7 EFT-POS terminal. Do not use it for any other usage.

③ User's installation manual



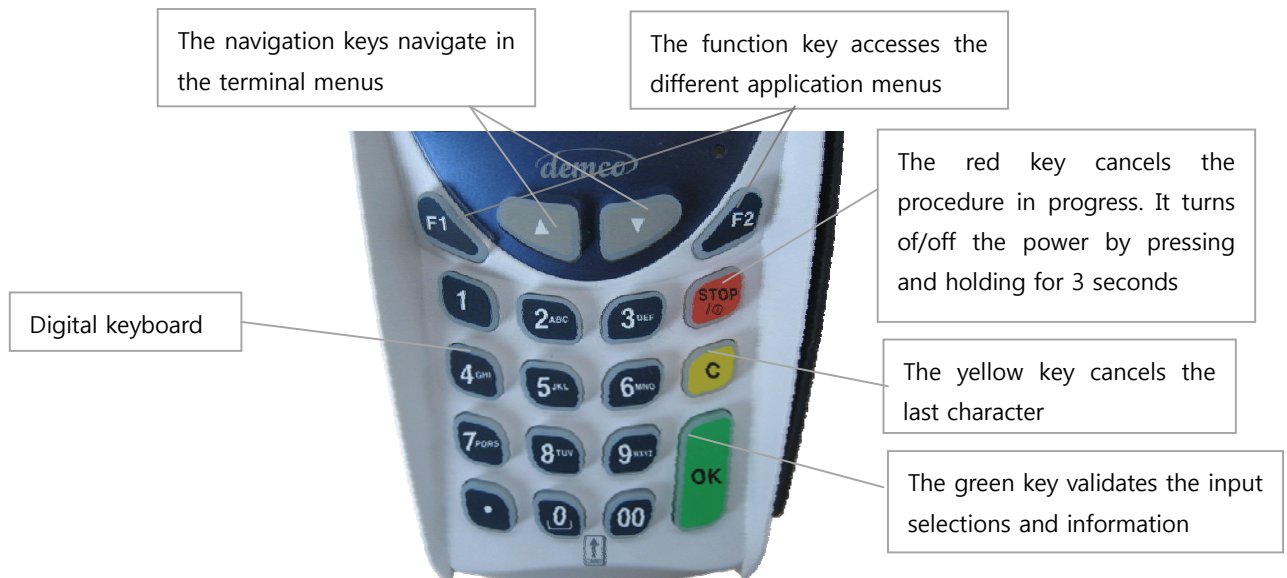
 **The model of the power supply unit vary by country.**

2.2 SP7 at a glance



2.3 Keypad and functionality

This chapter describes the key functions for a terminal with no specific application. Function of keys can vary depending on application.



3. Card reading & Paper loading

 Before any card reading or any use of the terminal, make sure that a paper roll is installed in the printer.


3.1 Card reading

Magnetic stripe card

- ① Place a magnetic card with the stripe down and facing toward LCD& keypad.
- ② Swipe the card through the magnetic card reader Smoothly.

Smart Card

Insert a smart card with IC chip side upwards into the smart card reader slot

-  Leave the smart card in the card reader until the transaction is complete.

3.2 Cutting the paper

Pull the paper to the front for paper cutting.

3.3 Installing the paper roll

SP7 features an "easy loading" printer, for easy paper roll replacement.

- ⚠ **Don't touch the printer mechanism. Take care the paper cutter is very sharp and the printer could be very hot!**
- ⚠ **Prepare for a roll of thermal sensitive paper with 57mm wide**

- ① Open the printer cover by pulling the release tap toward the front (LCD) with your finger.



- ② Remove the remaining role of the paper in the paper tray.



- ③ Drop the new paper roll into the paper tray and pull the paper.



- ④ Close the printer cover by gently pressing down the cover.



- ⚠ **To avoid overheating of the printer, wait a few seconds between two printings.**

4. Installation & Maintenance

4.1 Location of the terminal

It is highly recommended to place SP7 terminal on flat table or surface near an power outlet.

- Do not use the terminal in excessive heat, humidity, moisture area.
- Avoid areas with direct sunlight or electromagnetic radiation
- The terminal is not waterproof or dustproof so any mal-function from the exposure may void warranty.

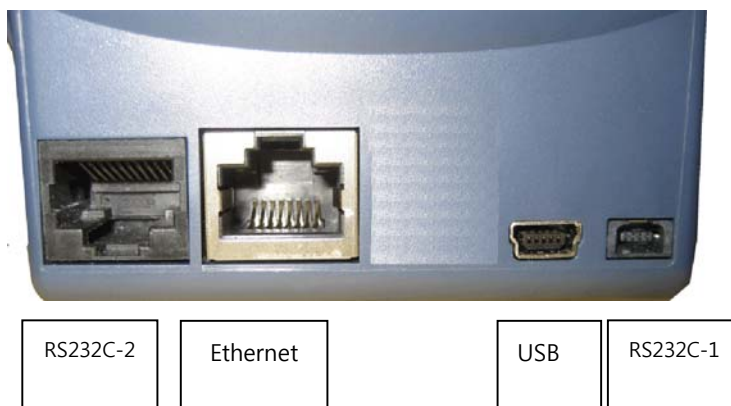
- **Operating temperatures**
-20°C to +80°C.

- **Humidity**
5% to 90% without condensation.

- **Storage temperature**
0°C to +60°C.

4.2 Terminal Interface

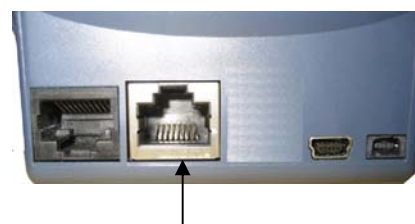
SP7 connection port are located on the back of the terminal.



- ⚠ Do not connect the power supply until any peripherals are connected.
- ⚠ Maximum length of cable : 2.50 m

4.2.1 Connection to the Ethernet LAN

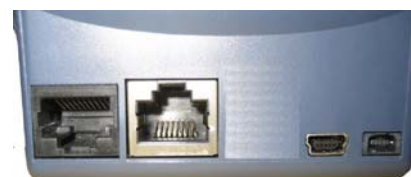
Connect SP7 terminal to an Ethernet LAN, using a standard direct Ethernet cable and make sure the connector is fully seated into ports.



Ethernet
LAN port

4.2.2 Connecting to a peripheral

Turn off the terminal and connect the peripheral cable to the terminal on RS232C(-1 or -2) or USB



RS232C-2

USB

RS232C-1

4.2.3 Connection to power supply



Make sure that the power cable should be firmly fit inside cable holder.

1. Insert the round barrel connector into the power port on the terminal.
2. Place the terminal upside down on a clean and flat surface for unwanted scratch or damages.
3. Guide the cable through the cable holder to secure the power cord from unwanted disconnection.
4. Plug the AC power cord into a wall power outlet.



When the terminal is power-on, the green LED indicator is on.



Power disconnection during a transaction may cause the transaction data to be lost.

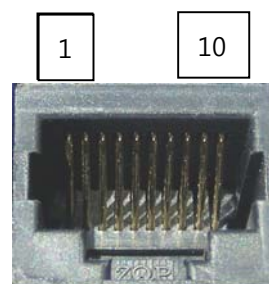
Power supply

Input 100 to 240 VAC, 50/60Hz, 0.8A
Output 9.0Vdc, 2.5A

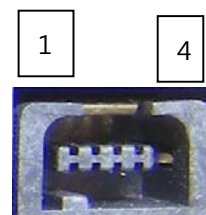


RS232C Interface

RS232-2 (RJ45-10P)			
1	CTS	6	UART2_TX
2	DTR	7	+5V
3	RTR	8	UART3_TX
4	CD	9	UART3_RX
5	UART2_RX	10	GND



RS232-1 (Mini USB A type)	
1	NC & 5V
2	UART0_TX
3	UART0_RX
4	GND

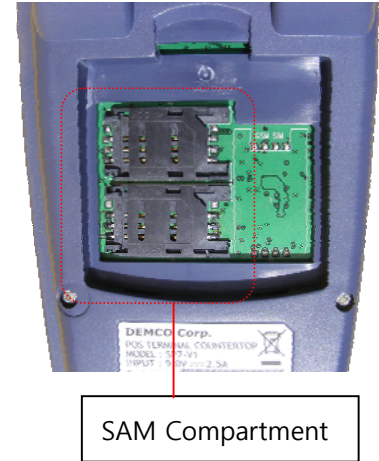




4.3 Installing a SAM card

The SAM card connectors are located beneath the terminal.

1. Remove the power cord from the terminal
2. Turn over the terminal
3. Open the SAM compartment cover by pulling the release tap
4. Open the SAM connector by pulling the connector cover left.
5. Insert a new SAM card (gold contact down) into an available slot by sliding it in into the guide until firmly seated.
** The SAM card has a notch on one corner to make sure that it fits into the connector in one way.
6. Re-install the SAM compartment cover.



4.4 Maintenance

① Cleaning the terminal

It is recommended to clean the terminal with a dry or slightly damp cloth.

Cleaning with water, solvent, or detergent cleaning is also prohibited.

Do not spray any cleaners on the keypad.

② Smart Card reader

Do not clean the smart card reader. If you have to, contact your installer or SP7 distributor.

5. Trouble-shooting

The terminal does not start

- Check the power supply connections (both wall power outlet and terminal power input).
- Make sure that you pressed the ENTER/ON key for 3 seconds, until the unit is on.

Printer doesn't print

- Check if the printer roll is out of paper and if the paper roll is properly installed.

LCD display is blank

- Check the terminal power connection.
- Check all cable connection.

Transaction fails to process

- In case of magnetic card reading, make sure that you swipe cards properly
- In case of smart card reading, make sure that the card is inserted correctly and the card remained in the smart card reader until the transaction is complete.
- For both cases, it is recommended to perform a test transaction using other magnetic or smart cards just to ensure the problem is not a defective card.

If the problem is still present after above action, contact your local SP7 representative for any help.

6 Safety & Information

4.1 Safety

Safety directives concerning the Lithium battery

- There is a risk of explosion if the battery has been replaced incorrectly.
- Dispose of used batteries according to the manufacturer instructions.
- Do not attempt to dismantle the battery.
- Do not attempt to reactivate the used battery by any means.
- Keep out of the reach of children.

CAUTION

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.



4.2 Information

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions ;

(1) this device may not cause harmful Interference, and (2) this device must accept any interference received, Including interference that may cause undesired operation.

• CAUTION

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

• INFORMATION

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

The use of a permanently attached antenna or of an antenna that user a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of required this section.

The manufacturer may design the unit so that broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

※ STATEMENT

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, users, 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 relocated 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.



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