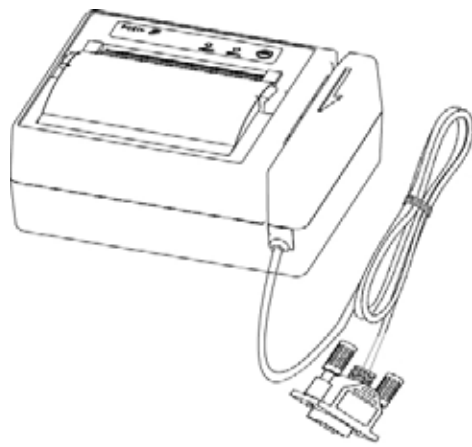


MODEL **PORTI-PC40**

(Mobile Printer)



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All specifications are subjected to change without notice

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**Porti-PC40** Mobile printer operator's manual.

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## **Trademark**



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## **Caution**

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or removed the cable on the rear side, in order to guard the printer against the static electricity.

If the printer is damaged by the static electricity, you should turn the printer "OFF"

## **Notice**

The contents of this manual are subject to change without notice.

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

- RS-232 cable applied circumvolving core (FELLUX/BNF-0930) 1 turn.



## ■ Introduction

The **Porti-PC40** is the ideal solution for Mobile banking system , Retail, point of sales, Credit card Transaction, other traveling and mobile computing etc.

The general features of **Porti-PC40** printer are as follows:

- ▶ Pocket size(105 x 80.4 x 45.7mm)
- ▶ Light weight(286g) for true mobility.
- ▶ Very silent printing thru direct thermal printing method.
- ▶ High speed(50mm/sec)
- ▶ High resolution(203dpi : 8dots/mm).
- ▶ Magnetic Stripe Reader included.
- ▶ Easier paper loading by CLAMSHELL design.
- ▶ Support text and graphic printing.
- ▶ RS-232C or TTL interface
- ▶ Easier maintenance with self-diagnostics.
- ▶ Flow control : Software (XON/XOFF)
  - ※ Hardware flow control not supported in printer.

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 of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

## ■ Operating Precautions

Please follow the precautions below to enjoy and maintain the full performance of the printer.

### ▶ Using the Printer

- Be careful not to drop or bump the printer on a hard surface.
- Do not install the printer in direct sunlight or such areas.

Suitable environment for the use of the printer is as follows :

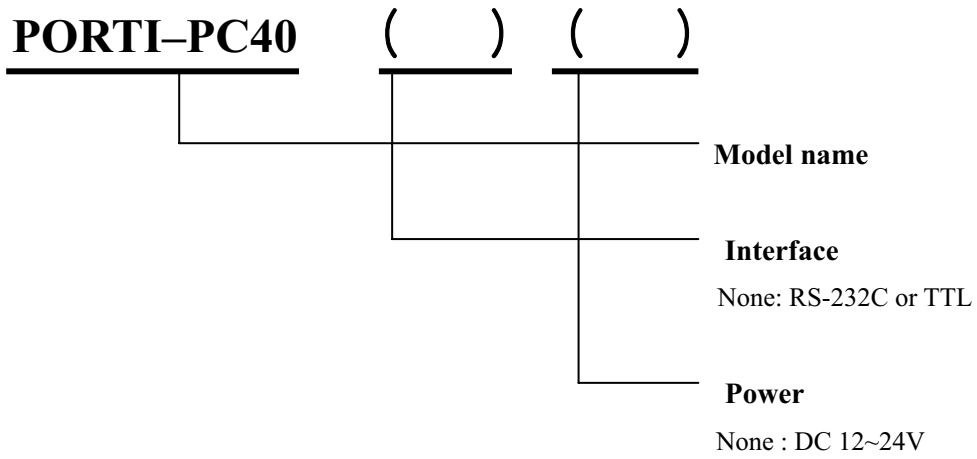
- ◆ Operating temperature : -10°C to 40°C
- ◆ Relative humidity : 10% to 90% (no condensation)
- Do not install the printer near devices that generate strong electromagnetic fields such as a copy machine.
- Do not remove or reinstall the communication cable during printing or transmission.

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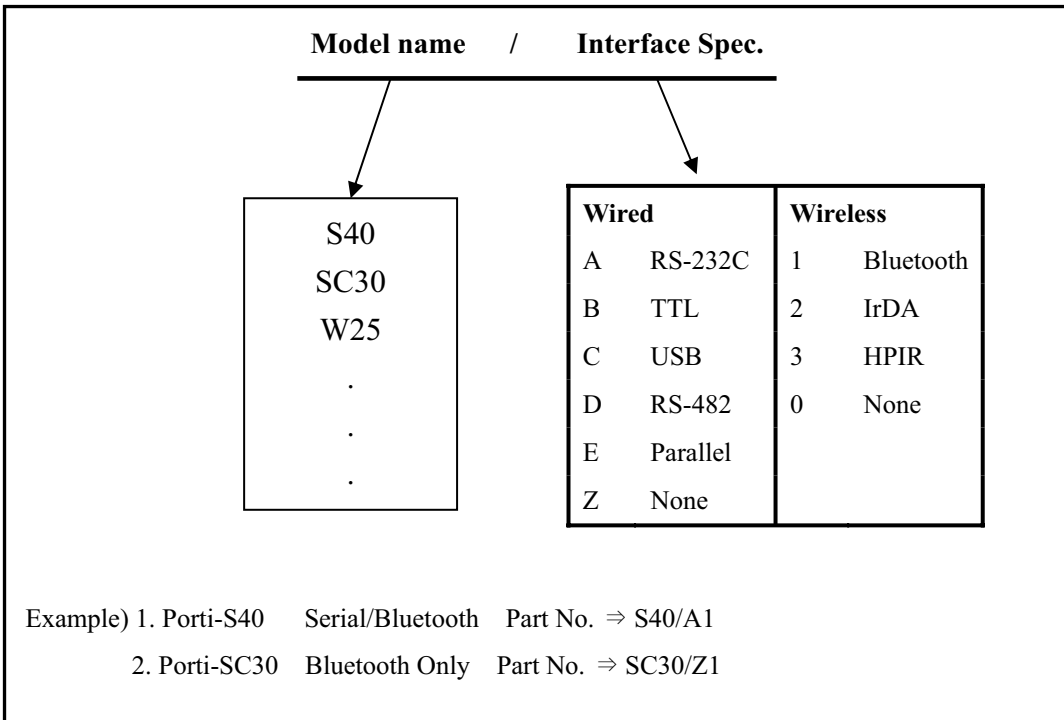
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# 1. Outline

## 1.1. Model classifications



## 1.2. Product Part Number System



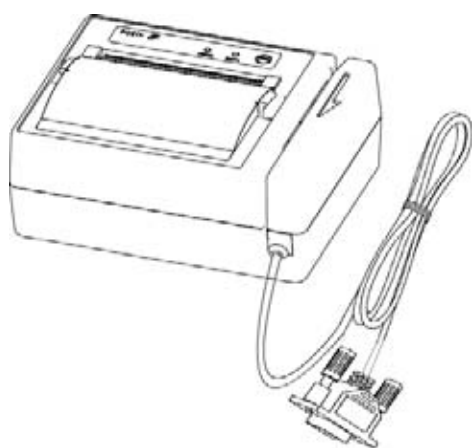
### 1.3. Specifications

Item	Description	
<b>Printing method</b>	Direct thermal line printing	
<b>Characters per line</b>	42cpl	
<b>Character size</b>	Eng. : 9*24dots, 12*24dots    Kor. : 16*24dots, [24*24dots]	
<b>Resolution</b>	203dpi, 8dots/mm	
<b>Print width</b>	2-inch (48mm, 384dots)	
<b>Printing speed</b>	50mm / sec	
<b>Dimensions</b>	105 x 80.4 x 45.7 mm	
<b>Weight</b>	286g	
<b>Interface</b>	RS-232C or TTL	
<b>Paper supplied</b>	Thermal roll paper (57mm wide, 40ø)	
<b>Barcode supplied</b>	PDF417(2-dimension), Code128, Code39, I12 / 5, UPC, EAN, KAN, JAN, CODABAR	
<b>Receive buffer size</b>	10K bytes	
<b>Note</b>	Printing speed may be slower, depending on the data transmission speed and the combination of control commands.	
<b>Input Power</b>	12~24V DC, Standby 60mA and Max 3A	
<b>Environment Conditions</b>	Temperature	-10°C ~ 40°C (operating) -10°C ~ 70°C (storage)
	Humidity	30% - 80% (operating) 10% - 90% (storage)
<b>MCBF (Mean Cycle Between failure)</b>	Mechanical	37,000,000 lines
	Head	Approximately 50 Km

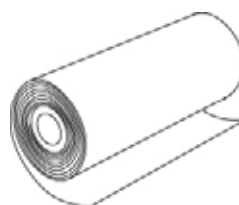
## 2. Setting up the printer

### 2.1. Printer & Accessories

When unpacking your printer box make sure it contains the printer and all accessories.  
If any accessories are missing or damage, please contact your dealer for assistance.



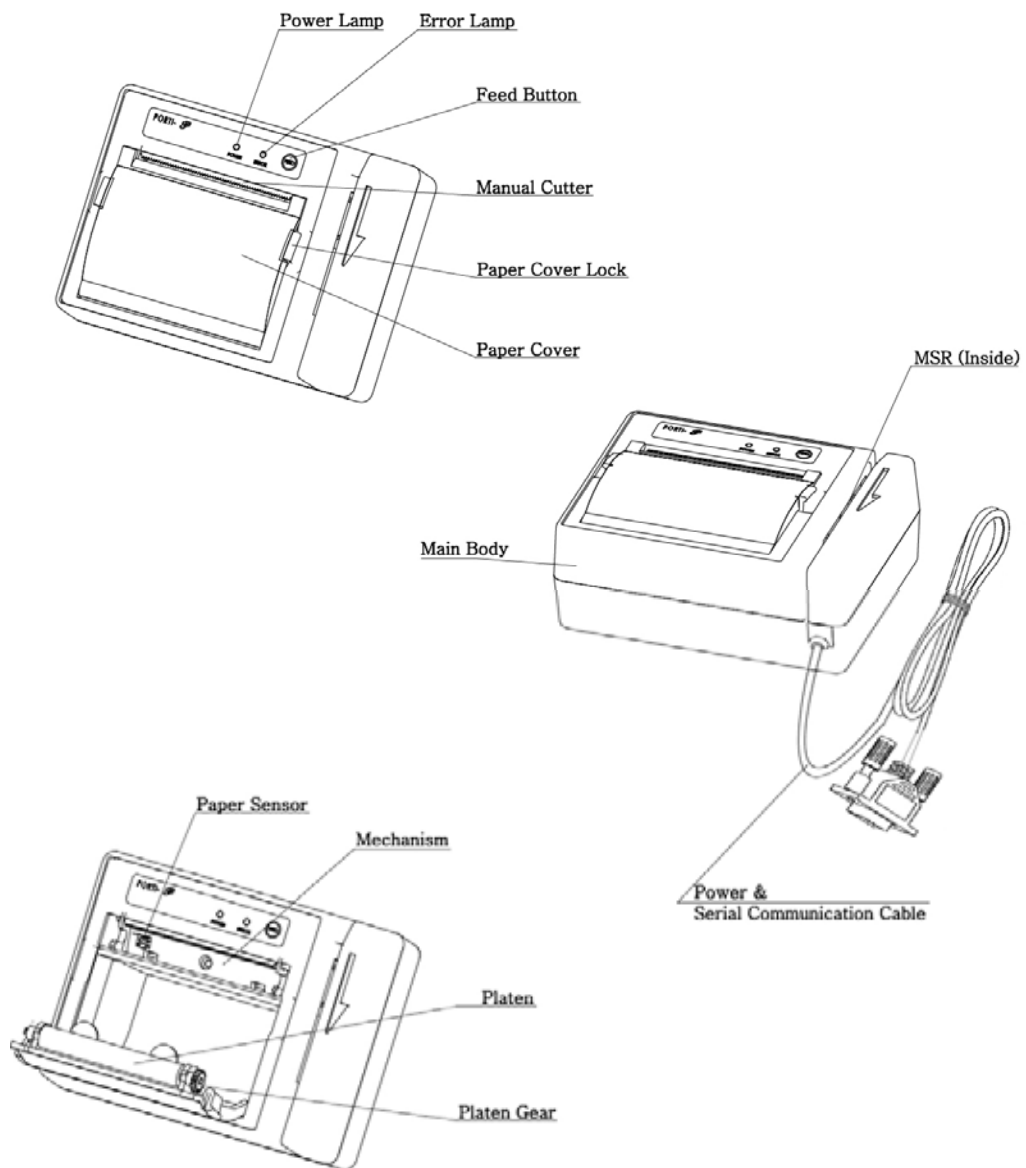
**PORTI-PC40**



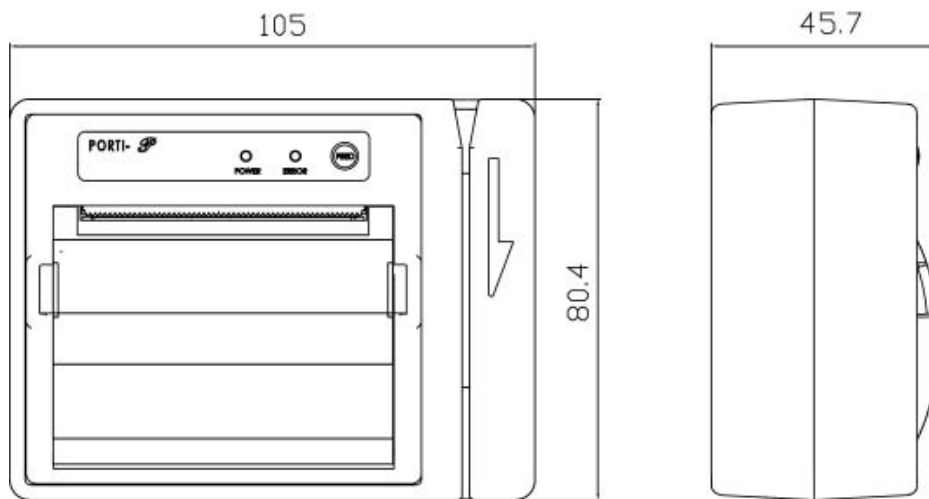
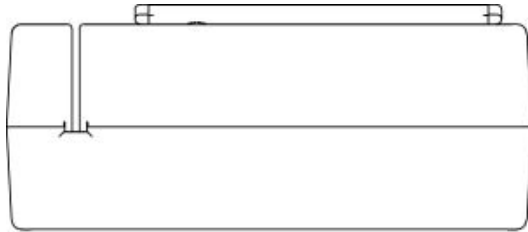
**Roll Paper**



## 2.2. Printer Features



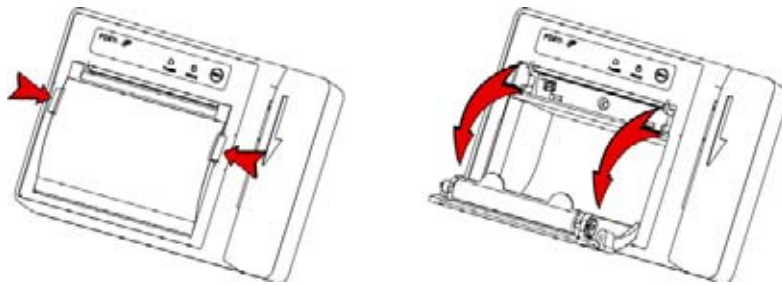
### 2.3. Dimensions



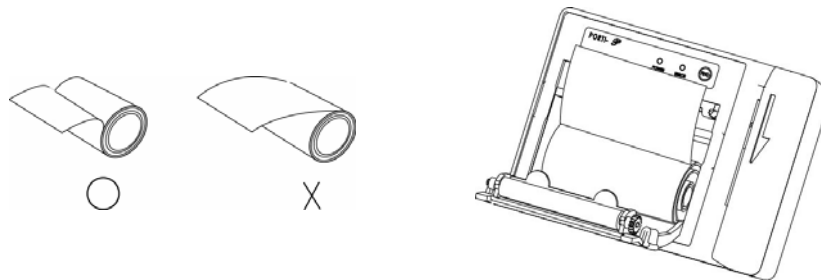
## 2.4. Replacing the paper roll

**Note :** Be sure to use paper rolls that meet the specifications.  
Do not use paper rolls that have the paper glued to the core because the printer cannot detect the paper end correctly.

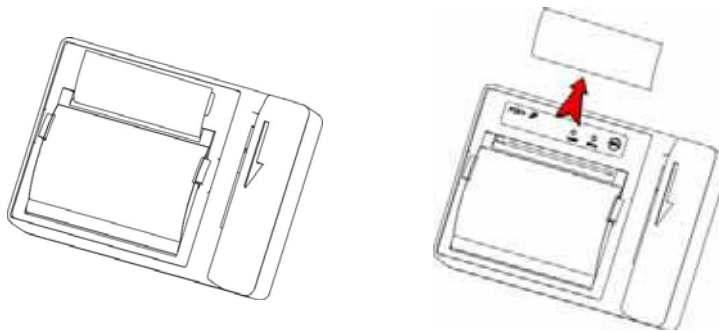
1. Make sure that the printer is not receiving data; otherwise, data may be lost.
2. Open the paper cover using finger on both side of printer, and remove the remaining paper.



3. Insert the paper roll as shown.



4. Tear the excess paper off using the edge of paper door as a tear bar.



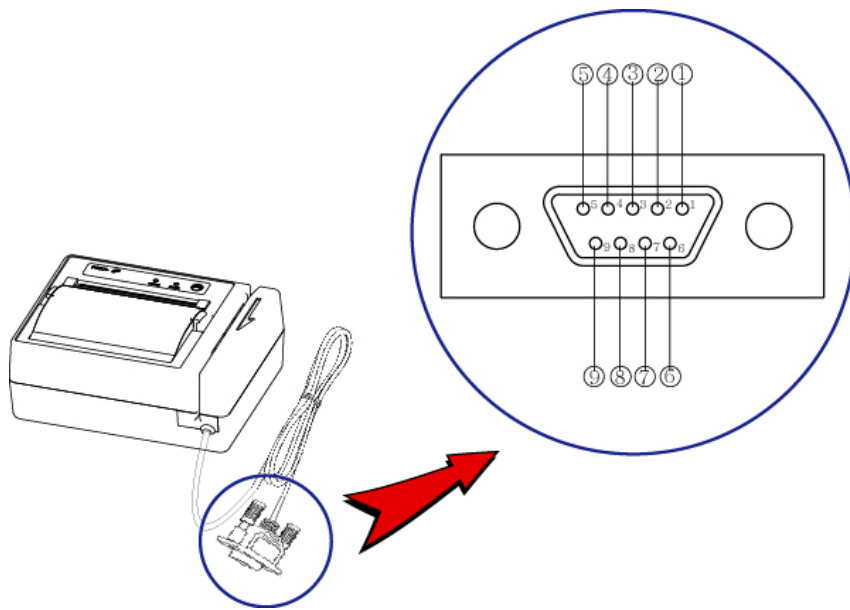
## 2.5. Power supply

The following specifications are requested for Power supply.

Input : DC 12-24V / Max 3A

Avoid using power supply which its power capacity of power current is extremely high.

### 3. Interface



Pin No.	Name	Direction	Function
1	-	-	-
2	TxD	Output	Transmit Data
3	RxD	Input	Receive Data
4	-	-	-
5	GND	-	Ground
6	-	-	-
7	-	-	-
8	-	-	-
9	INPUT	-	12V~24V/3A

<D-Sub 9p Female >

※ **RS-232C Technical Specifications**

**DATA TRANSFER RATE** : 9600 Baud

**WORD LENGTH** : 8 Data Bits

1 Stop Bit

**SIGNAL LEVELS** : Mark or Logical 1 = -3 to -15 VDC

Space or Logical 0 = +3 to +15VDC

**HANDSHAKING** : XON / XOFF

## 4. Using the printer

### 4.1. Control panel



#### ► Button

##### - FEED Button :

When the printer is on, paper can be feed manually by pressing and holding the FEED button for more than one second.

#### ► Panel Lamp

- **POWER** : Printer is ON and ready to receive data.

- **ERROR** : Indicates a fault condition or a printer error.

(i.e : no paper, paper cover opened. etc.)

### 4.2. The self test

The self test procedure will check most of the printer functions. For self test, turn on the power while holding down the FEED Button. The Self-Test checks the following :

- 1) Make sure paper roll has been installed properly.
- 2) The Self-Test prints the current printer status, which provides the control ROM version and the communication method setting.
- 3) After printing the current printer status, Self-Test will print a pattern using the built-in character set.
- 4) The Self-Test automatically ends.

The printer is ready to receive data as soon as it completed the self test.

## 5. Consumable Parts

### 5.1. Recommended paper

Type	: Thermal Paper
Paper width	: 57mm
Paper thickness	: $60 \pm 5 \mu\text{m}$
Outer diameter	: $\text{Ø}40\text{mm}$ or less
Recording side	: Outside of roll



#### Cautions

1. Do not paste the paper to the core. And the roll paper which has Near end mark printing on its near end is recommended.
2. Chemicals or oil may change the color of paper, or printed Characters may fade.
3. Change of paper color starts from approx  $70 \text{ }^{\circ}\text{C}$ .  
Pay attention to heat, humidity and sun light.
4. Color of paper may be changed by being scratched by nail or hard metal, etc.

### 5.2. Printing position

