



TPE

User Manual

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
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
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


Thank you for purchasing EXCELL Scale, to help use the product properly, operate smoothly, and extend its life cycle, please read this manual carefully.

INSTRUCTIONS FOR USE

1. Thank you for purchasing this Price Computing Scale.
2. To enable you to use this scale correctly, we suggest that you read these instruction carefully.
3. It must be prevented from getting wet. If it gets wet, please wipe it dry with a cloth.
4. Keep it away from high temperatures and damp conditions.
5. Don't bump the scale against other items, nor load it with excessively heavy weights (The load must not exceed the maximum capacity of the scale).
6. If the indicator is not going to be used for some time, please clean it and store it in a plastic bag in dry conditions. A desiccant sachet may be included to prevent any moisture build up.
7. Objects to be weighed should be placed at the center of the platter, and can't exceed the dimension of the platter.
8. Any opinions and suggestions on this product are welcome.

PREPARING TO USE THE SCALE

1. Please locate the precision scale on a stable, flat desk and don't put it on a shaking or unstable desk.
2. Adjust the four leveling feet to make the scale horizontal. Make sure that the bubble level is in the center of the circle.
3. Keep the scale away from places with strong drafts or excessive temperature fluctuations (E.g. from direct sunlight or the air louver of an air conditioner).
4. Don't put any object on the scale while switching on the scale.
5. Please keep the scale switched on for 15 ~ 20 minutes before operation.
6. Once the scale has been powered on, it will go through an LCD display test and it is ready for use when the display shows zero.
7. When the low battery indicator  appears in the right corner of the display, replace the dry batteries or recharge the battery.
8. Introduction of Storage Battery

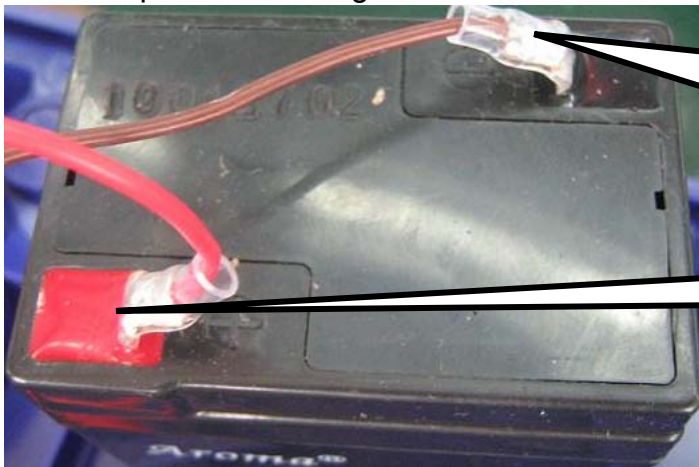
Due to the storage battery adopt the advanced free-maintaining technique, customers need not to replenish electrolyte.

The scale should be recharged every 3 months to prevent failure of the internal rechargeable battery.

1. The battery should be charged for 8~10 hours.
2. The temperature of battery should below 45°C.

Maintaining

1. Please do not discharge with over-current when using the battery. Please charge the battery after discharging current.
2. Please take down the battery when the scale is not used for a long time or break the connection of cathode.
3. Do not short the battery terminals to check whether there is current. Please check whether the connection point is firm to guarantee good connection.
4. The battery should be replaced by specialized person. **No reverse-battery or the product will be damaged.**
 - a) Anode of battery should be connected with Anode of product battery (usually red cable)
 - b) Cathode of battery should be connected with Cathode of product battery (usually brown cable or black cable)
 - c) See the picture following



Brown cable(or black cable) connected with Anode of battery

Red cable connected with Cathode of battery

Safety warnings

1. The electrolyte of battery is caustic which causes metal, cotton, etc to corrode.
2. The hydrogen will be resolved when using or charging the battery and it will cause explosion when approaches fire.



No burning



Caution Corrosion



Warning explosion



Children faraway



CHAPTER 1 INTRODUCTION

1-1 Product Features

- 35 PLU preset key for frequent transactions, each PLU has: Product code, Unit price, Discount rate, Tax rate, Pre-tare.
- Each transaction can have up to 25 items which can be recalled and deleted.
- 2 sale clerks and 2 temporary transaction storage for quick switch between customers
- Money change, Tare, Pre-tare, Zero
- Tax rate and Discount rate can be manually entered and be applied to the individual item or to the subtotal
- 2" Thermal printer with printing speed up to 50mm/s $\pm 20\%$
- Customization on the head and tail of ticket format, 8 lines for head or tail, and 32 characters per line and 4 different font sizes
- Configurable EAN13 barcode available
- 4 different reports: PLU list, Daily sale report, PLU Data change record, Internal setting table
- Re-printable receipt
- 6V/4Ah rechargeable battery for operating during blackout
- Double-sided LCD display on tower with LED backlight
- 1/3,000 or 1/6,000 resolution
- Auto power off to maintain stability
- Rechargeable battery will provide power when external power is off.


Option


- RS232 + RJ11 (for 12V or 24V) output
- cash drawer(for 12V or 24V)
- Transmission tool TPEUTIL for PC


1-2 Specification

Capacity	Division	Resolution
3/6 kg	1/2g	1/3,000~1/6,000
6/15 kg	2/5 g	1/3,000~1/6,000
15/30 kg	5/10 g	1/3,000~1/6,000
Operating Temperature: : 0°C ~ 40°C (32°F ~ 104°F)		
Dimensions : 313 x 380 × 515 mm (W x D x H)		
Platter Size: 310 x 252 (W x D)		
Power Supply : AC 110V/220V (±10%) + DC 6V/4AH Rechargeable Battery		
Double-side display on tower: LCD. 6, 6, 6 digits , height 14 mm, LED backlight		
Weight: About 5kg		
Thermal Printer Specification:		
Printer Speed: up to 50mm/s		
Paper Size : 42mm roll diameter, 58 mm wide		
Life: 12.5km ± 20%		

1-3 Error Messages


 ⇒ The weight of the object is over the maximum capacity + 9 divisions.


 ⇒ Zero value is higher than 10% FS.

 ⇒ Zero value is lower than 10% FS.

 ⇒ Unstable condition when the scale counts back to zero.

(If  appears, please restart the scale.)

 ⇒ Zero range is too high(350,000) when correcting.

 ⇒ Zero range is too low(80,000) when correcting.

1-4 Keypad Description





▲ Appearance of keypad

- 0 ~ 9** Number Key: To set the unit price or parameters
- 00** (1) Double zero Key: To input units with two zero
(2) To change charge units
- X** Quantity Key: To input quantities of non-weighing products
- +** Accumulation key of non-weighing products
- M+** Accumulation key of weighing products
- MR** Check accumulation data
- MC** (1) Clear memory of one trade
(2) To settle an account
(3) Open cash drawer
(4) Print the receipt
- Shift** + **M+** Re-print the receipt
- CH** Change Key: Before settle an account (press **MC**), press **CH** to calculate the change and displaying on LCD
- FUN** Function Setting Key: Press **2 0 1 1**, then press **FUN** to enter setting.






Discount Key:

- ◆ FREE PRICE single discount

Method: After inputting FREE PRICE, press  key before  key to set FREE PRICE single discount.

- ◆ Before accumulation, input total discount



A. Before inputting unit price, press  key to set total discount and save in memory card (fixed total discount).


B. Press  key before  key to set total discount (changeable discount, manual input).





Tax rate Key:


- ◆ FREE PRICE single tax


Method: After inputting FREE PRICE, press  key before  key to set FREE PRICE single tax rate.


Quantity pricing: 1. Input unit price and press  key.

2. Input tax rate and press  key.


3. Press  key then input quantity.

4. Press  key to store in the memory.


Weight pricing: 1. Input unit price and press  key.



2. Input tax rate and press  key.

3. Put weighing goods on the platter.

4. Press  key to store in the memory.

- ◆ Before accumulation, input total tax rate

A. Before inputting unit price, press  key to set total tax rate and save in memory card (fixed tax rate).

B. Press  key before  key to set total tax rate (changeable tax rate, manual input).



Pr-tare Key



Zero return key:

Range: ± 2% Full scale



Tare Key:

Range: Full scale



Clear Key: clear unit price or parameters



Confirm key



PLU Unit Price Setting Key :

Input amount and press **PLU** key, then press PLU keys “01~35” to save.



Switch to user A, or switch to Vendor 1



Switch to user B, or switch to Vendor 2



Paper-feed key of Printer :

The printer spits out paper 1 cm, please don't hold it for long time.

Please change the scroll before paper out to avoid paper jam.



Switching to capital letters or Multiple key.

01 A	02 B	03 C	04 D	05 E	06 F
07 G	08 H	09 I	10 J	11 K	12 L
13 M	14 N	15 O	16 P	17 Q	18 R
19 S	20 T	21 U	22 V	23 W	24 X
25 Y	26 Z	27 :	28 /	29 \	30 (
	31 .	32 [	33]	34)	35 sp

PLU keys

1-5 Fixing Paper of Printer

Steps:

(1) Open printer upper lid:



(2) Put in the thermal paper roll (thermal side facing downward and out)



(3) Pull out the paper end



(4) Bow and hold down the paper end



(5) Close the printer upper lid



CHAPTER 2 FUNCTION INSTRUCTION

2-1 Internal Value Display

Press **Z** key and then the weight shows “— — — — — “. At the same time, please press **CE** key to display the internal value. Press **0** key to exit the setting.

2-2 Backlight Function (Optional)

<Method 1>

Press **Z** key, the unit weight displays “— — — — — “ followed by pressing **4** key, backlight mode is Auto-backlight.

Press **Z** key, the unit weight displays “— — — — — “ followed by pressing **5** key, backlight is off.

< Method 2>

Press **0** key for two seconds, the buzzer will beeps three times, which means the scale have switch to backlight function automatically including auto-backlight or no backlight.

Auto-backlight mode

The backlight will be on when the platter is placed the loading (must be over 10d) or pressing any keys on the keyboard.

When the scale returns to zero(less than 10d), the backlight will be off automatically after 10 seconds.



The backlight status will be memorized.

After the scale is off, the backlight mode will be kept as the same as to turning on the scale next time.



2-3 External weighing calibration

(only when weight external calibration is available.)

Operation :

Make sure the scale returns to zero and be in “kg” mode.

Press and hold **MC** key and then press **00** key.

Unit Price will display “**CAL**” and Weight displays **0000** kg.

Release these two keys and input the corrected weight value by number keys, and the display will flash the weight value.

Put enough weights according to the display, after the weight is stable, the weight value will stop flashing.

The calibration is now completed, and then you can remove the weights.

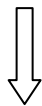
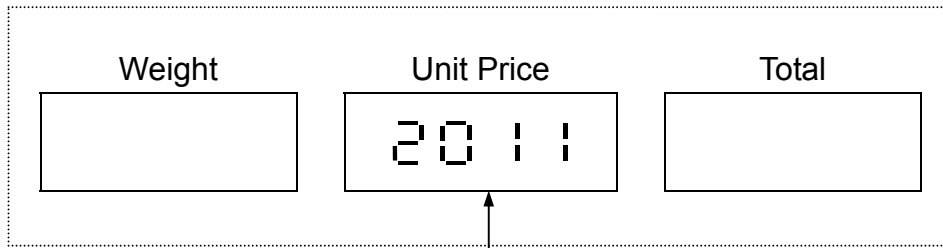
2-4 Return to the default setting of weight calibration

Operation:

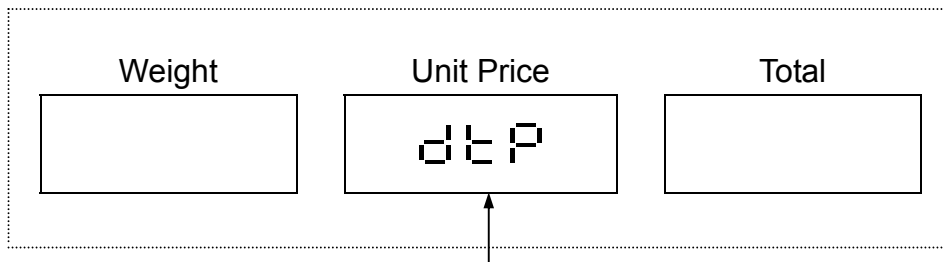
Press and hold **MC** key and press **CE** key. Release these two keys after the buzzer beeps. Returning to the default setting is now done.

2-5 All-day Accumulation

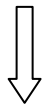
- ☰ All-day accumulating data could only be printed in F7 or transmitted in F9 but can't be showed on the LCD.
- ☰ All-day accumulating data couldn't be cleared by F7 or F9 operation, you should clear the data by following steps or the scale will continue accumulating.



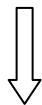
keyin "2011" in unit price



Press **MR** key , display " dEP "



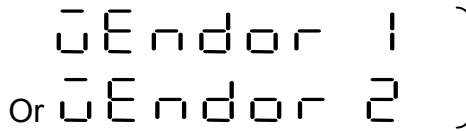
Press **MC** key, clear all the accumulating data



Press **CE** key to exit.

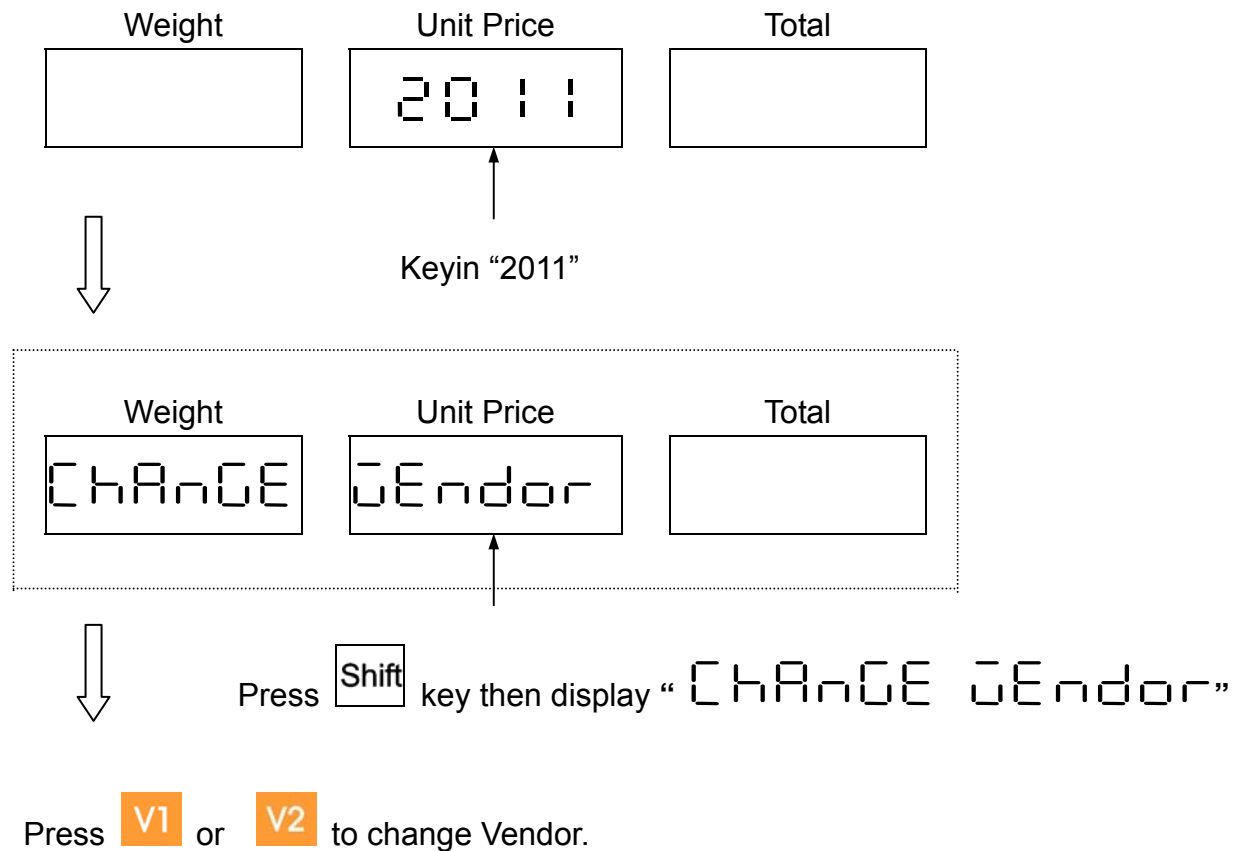
2-6 Vendor switching mode

Switch on the scale and the LCD show:


 } → then count backwards and return to zero.

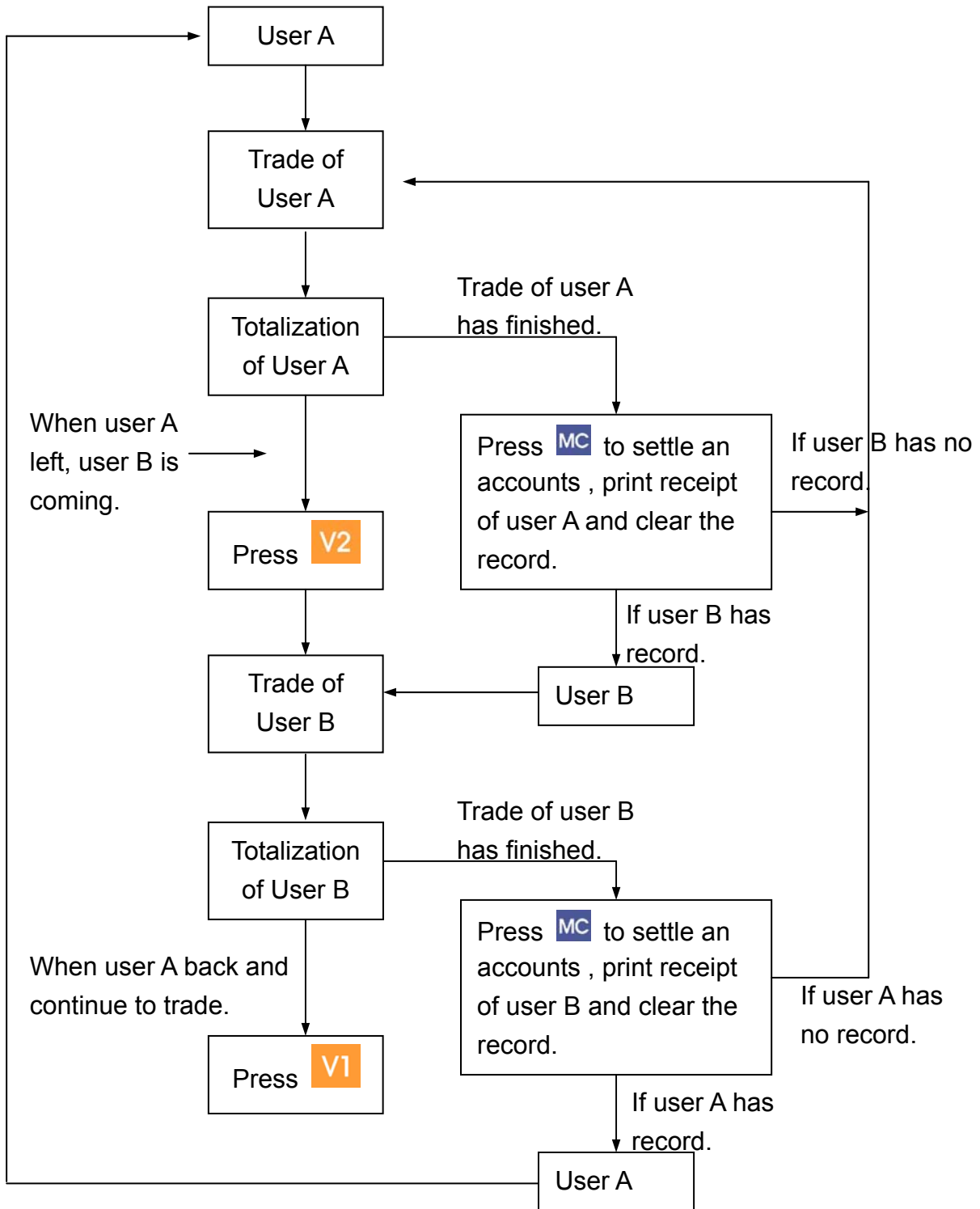
Display Vendor 1 or Vendor 2 means who is using the scale right now.

In weighing mode:

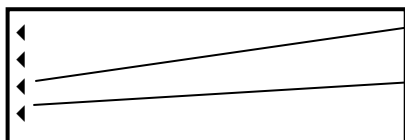


2-7 Two users trade at the same time

(Each user can accumulate 25 trades.)



Total Price





Flashing means user A accumulates.

Flashing means user B accumulates.

CHAPTER 3 FUNCTION SETTING

Press **2 0 1 1** and then press **FUN** key to enter the function setting mode.


F0 Lng	Eng	0	Language setting
F1 232	baud	0	RS232 baud rate setting
F2 232	SEtC	3	RS232 transmission mode
F3 rEtC	Forā	0	Time setting (YMD or DMY)
F4 Prh			Print Head data setting
F5 Prt			Print Tail data setting
F6 PLU			PLU data setting (1~35)
F7 rEP	intnAL	0	Print report
F8 Pt	Prā	000000	Print format parameter setting
F9 232	rEP	0	RS232 report transmission

TAX	: Next setting		: Enter
PT	: Last setting		: ESC

3-1 F0 Language Setting

Use number key **0** ~ **2** to choose,

- 0: ENG English CodePage:1252
 - 1: CHN T Traditional Chinese CodePage:950
 - 2: CHN S Simplified Chinese CodePage:936
 - 3: FARSI Iran System encoding standard
- 0: Refer to appendix: ASCII code table WPC1252
 3: Refer to appendix: Iran System encoding standard

TAX	: Move the cursor rightward
PT	: Move the cursor leftward
	: To confirm
%	: To exit

Note : This function depends on different types of control panel

3-2 RS232 Baud Rate Setting

Use number key **0** ~ **3** to choose,

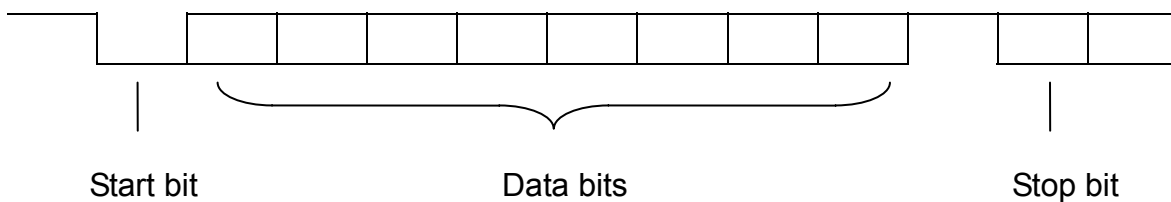
- 0:38400 bits/sec
- 1:19200 bits/sec
- 2:9600 bits/sec →original value
- 3:4800 bits/sec

RS232 interface format

I . Mode : UART Signal of EIA-RS0232 C

II . Format :

1. Baud rate : 4800,9600,19200,38400 bits/second
2. Data bits : 8 bits
3. Parity bit : None
4. Stop bits : 1 bit
5. Code : ASCII(Exchange code of American standard)




Hardware:

SLAVE (SCALE)	HOST(PC)
D_SUB 9(socket)	D_SUB_9 (plug)
2 TXD	RXD 2
3 RXD	TXD 3
5 GND	GND 5

3-3 RS232 Transmission Mode

Use number key **0** ~ **3** to choose,

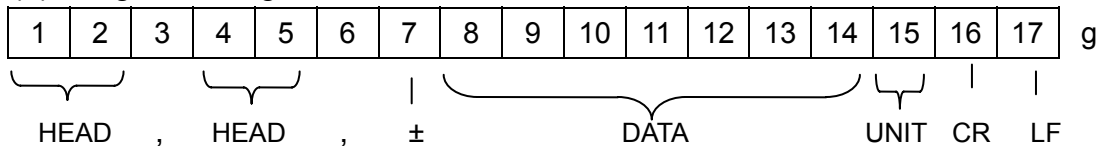
- 0: Two way transmission
- 1: Continuous transmission
- 2: Stable transmission
- 3: Close RS232 → original value

TAX: Move the cursor rightward
PT: Move the cursor leftward
: To confirm
%: To exit

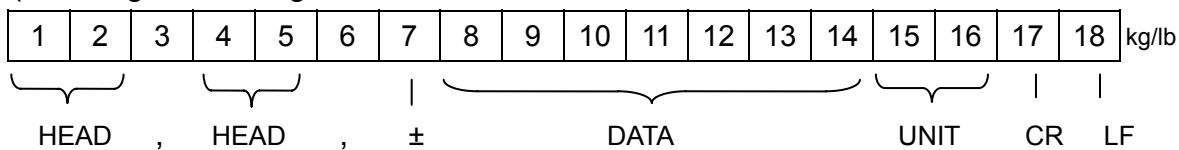
RS232 DATA FORMAT

Stable transmission or continuous transmission

(1) Weight unit is g



(2) Weight unit is kg or lb



HEAD1 (2 BYTES)	HEAD2 (2 BYTES)
OL - Overload , Under load	
ST - Display is Stable	NT - NET Mode
US - Display is Unstable	GS - GROSS Mode

DATA (7 or 8 BYTE)

2D (HEX) = “ - ” (MINUS)

2B (HEX) = “ + ” (PLUS)

2E (HEX) = “ . ” (DECIMAL POINT)

UNIT (2 、 3 or 4 BYTE)

kg = 6B (HEX) ; 67 (HEX)

lb = 6C (HEX) ; 62 (HEX)

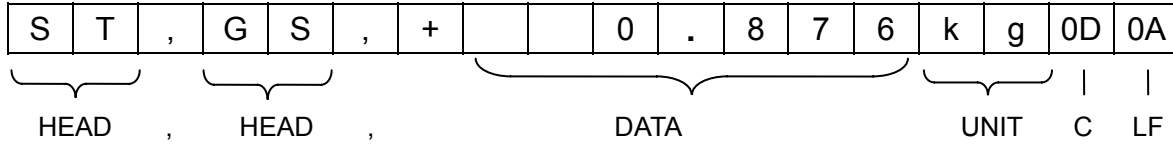
tl.T = 74 (HEX) ; 6C (HEX) ; 2E (HEX) ; 54 (HEX)

hkg = 68 (HEX) ; 6B (HEX) ; 67 (HEX)

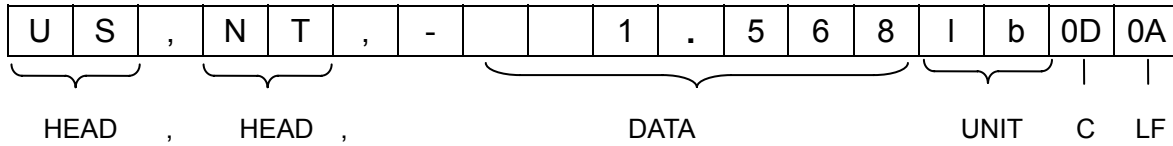
For example:

Data format for RS232 continuous transmission are as below.

1. The gross weight (+0.876kg) shows as below, after stable: (under no tare or pre-tare mode)



2. The net weight (-1.568lb) shows as below, after unstable: (under no tare or pre-tare mode)



3-4 F3 Time Setting

Use number key **0** or **1** to choose,

Form 0 : Year / Month / Day

Form 1 : Day / Month / Year

TAX	: Move the cursor rightward
PT	: Move the cursor leftward
↵	: To confirm
%	: To exit

For example: March 14, 2011 3:26:43 p.m.

Use number key "0"~"9" to input,

Y M D
 F3 r t C
 1103 14
 152643

D M Y
 F3 r t C
 1403 11
 152643

3-5 F4 Print Head Data Setting

- ☞ 32 standard fonts can be inputted in a line and 8 lines in all.
- ☞ Each line can be enlarged twice width or height respectively.
- ☞ Byte is displayed as ASCII code.
- ☞ Use number key **0** ~ **9** to input.

F4 P r h

- (A) Font parameters
- 00: Standard
 - 10: Width x2
 - 01: Height x2
 - 11: Height x2 and Width x2
 - 20: Width x3
 - 02: Height x3
 - 22: Height x3 and Width x3

C o n |
 Line 1
 00 03
 (A) (B)

(B) Length of line 1 : 3bytes

Data setting:

- ☞ Please input parameters refer to ASCII Code (HEX).
- ☞ 32 bytes in a line (divided into page 0~3)
 Page 0: address 0 ~ 7
 Page 1: address 8 ~ 15
 Page 2: address 16 ~23
 Page 3: address 24 ~31

166 10 | Content: HEX 1B 61 01 → 3 bytes

000000
 0000 0

Page 0
 (0~7)

Description: Printer order (HEX)

1B 61 00	Left justify
1B 61 01	Center justify
1B 61 02	Right justify

TAX	: Move the cursor rightward
PT	: Move the cursor leftward
←	: To confirm
%	: To exit



For example:


EXCELL PRECISION CO.,LTD.	} (height x2)
http://www.excell-scale.com	
TEL:+886-2-8919-1000	

Steps:

<pre>F4 P r h Coñ 1 Line 1 00 03 Standard 3 bytes</pre>	→	<pre>166 10 1 Printer center justify 0000000 00000 0 Page 0 (0~7)</pre>
<pre>F4 P r h Coñ 2 Line 2 01 27 Height x2 27 bytes</pre>	→	<pre>455843 E X C 454040 E L L 2050 0 P Page0 (0~7)</pre>
<pre>524543 R E C 495349 I S I 4F4E 1 O N Page1 (8~15)</pre>	→	<pre>20434F C O 2E2040 L 5444 2 T D Page 2 (16~23)</pre>
<pre>2E0d0A line feed 0000000 0000 3 Page3 (24~31)</pre>		





TAX	: Move the cursor rightward
PT	: Move the cursor leftward
	: To confirm
%	: To exit

<p>F4 P r h</p> <p>C o n 3</p> <p>Line 3</p> <p>0 1 29</p> <p>Height x2 29 bytes</p>	<p>→</p>	<p>687474</p> <p>h t t</p> <p>703A2F</p> <p>p : /</p> <p>2F77 0</p> <p>/ w Page0</p> <p>(0~7)</p>
<p>77772E</p> <p>w w .</p> <p>657863</p> <p>e x c</p> <p>656C 1</p> <p>e l Page1</p> <p>(8~15)</p>	<p>→</p>	<p>6C2d73</p> <p>l - s</p> <p>636 16C</p> <p>c a l</p> <p>652E 2</p> <p>e . Page 2</p> <p>(16~23)</p>
<p>636F6d</p> <p>c o m</p> <p>0d0A00</p> <p>Line feed</p> <p>0000 3</p> <p>Page3</p> <p>(24~31)</p>		
<p>F4 P r h</p> <p>C o n 4</p> <p>Line 4</p> <p>0 1 22</p> <p>Height x2 22 bytes</p>	<p>→</p>	<p>54454C</p> <p>T E L</p> <p>3A2638</p> <p>: + 8</p> <p>3836 0</p> <p>8 6 Page0</p> <p>(0~7)</p>
<p>2d322d</p> <p>- 2 -</p> <p>38393 1</p> <p>8 9 1</p> <p>392d 1</p> <p>9 - Page1</p> <p>(8~15)</p>	<p>→</p>	<p>3 13030</p> <p>l 0 0</p> <p>300d0A</p> <p>0 a l</p> <p>0000 2</p> <p>Page 2</p> <p>(16~23)</p>

TAX	: Move the cursor rightward
PT	: Move the cursor leftward
	: To confirm
%	: To exit

After setting, press  key to return to standard font .

<p>F4 P r h</p> <p>C o n̄ 5</p> <p>Line 5</p> <p>00 00</p> <p>standard 0 byte</p>	<p>→</p>	<p>0000000</p> <p>0000000</p> <p>0000 0</p> <p>Page0</p> <p>(0~7)</p>
<p>F4 P r h</p> <p>C o n̄ 6</p> <p>Line 6</p> <p>00 00</p> <p>standard 0 byte</p>	<p>→</p>	<p>0000000</p> <p>0000000</p> <p>0000 0</p> <p>Page0</p> <p>(0~7)</p>
<p>F4 P r h</p> <p>C o n̄ 7</p> <p>Line 7</p> <p>00 00</p> <p>standard 0 byte</p>	<p>→</p>	<p>0000000</p> <p>0000000</p> <p>0000 0</p> <p>Page0</p> <p>(0~7)</p>
<p>F4 P r h</p> <p>C o n̄ 8</p> <p>Line 7</p> <p>00 00</p> <p>standard 0 byte</p>	<p>→</p>	<p>0000000</p> <p>0000000</p> <p>0000 0</p> <p>Page0</p> <p>(0~7)</p>

	: Move the cursor rightward
	: Move the cursor leftward
	: To confirm
	: To exit

3-6 FS Print Tail data setting

- ☞ 32 standard fonts can be inputted in a line and 8 lines in all.
- ☞ Each line can be enlarged twice width or height respectively.
- ☞ Byte is displayed as ASCII code.
- ☞ Use number key **0 ~ 9** to input.

FS Prt

Coñ 1
 Line 1
 11 12
 (A) (B)

- (A) Font parameters
- 00: Standard
 - 10: Width x2
 - 01: Height x2
 - 11: Height x2 and Width x2
 - 20: Width x3
 - 02: Height x3
 - 22: Height x3 and Width x3
- (B) Length of line 1 : 3bytes

Data setting:

- ☞ Please input parameters refer to ASCII Code (HEX).
- ☞ 32 bytes in a line (divided into page 0~3)
 - Page 0: address 0 ~ 7
 - Page 1: address 8 ~ 15
 - Page 2: address 16 ~23
 - Page 3: address 24 ~31

Description: Printer order(HEX)

1B 61 00	Left justify
1B 61 01	Center justify
1B 61 02	Right justify


TAX	: Move the cursor rightward
PT	: Move the cursor leftward
↵	: To confirm
%	: To exit

For example:

<p>Thank you! See you next time.</p>	} (height x2 width x2)
--	------------------------


Steps:

<pre> FS Prt Coñ 1 Line 1 11 12 Height x2 12 bytes Width x2 </pre>	→	<pre> 54686 1 T h a 6E6620 n k 796F 0 y o Page 0 (0~7) </pre>
<pre> 752 10d u ! line feed 0A0000 0000 1 Page1(8~15) </pre>		
<pre> FS Prt Coñ 2 Line 2 00 20 standard 20 bytes </pre>	→	<pre> 536565 S e e 20796F y o 7520 0 u Page 0 (0~7) </pre>
<pre> 6E6578 n e x 742074 t t 696d 1 i m Page1 (8~15) </pre>	→	<pre> 652E0d l 0 0 0A0000 0 a l 0000 2 Page 2 (16~23) </pre>

TAX	: Move the cursor rightward
PT	: Move the cursor leftward
	: To confirm
%	: To exit

After setting, press  key to return to standard font .

FS Prt Coñ 3 Line 3 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)
FS Prt Coñ 4 Line 4 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)
FS Prt Coñ 5 Line 5 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)
FS Prt Coñ 6 Line 6 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)
FS Prt Coñ 7 Line 7 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)
FS Prt Coñ 8 Line 8 00 00 standard 0 byte	→	0000000 0000000 0000 0 Page0(0~7)






TAX	: Move the cursor rightward
PT	: Move the cursor leftward
	: To confirm
%	: To exit

3-7 FE PLU Data Setting(1~35)

Each PLU contains content as followed:

1. Unit price (5 bytes)
2. PLU code or P/N 6 code
3. Name (16Byte)
4. Discount 0.00%~99.99%
5. Tax 0.00%~99.99%
6. Pre-tare

<p>PLU 01 6.00 uPr ICE</p>	<p>Use number key to set unit price You can use 00 key to change unit(kg or 100g) Press X PCS (unit price of non-weighing goods) , Press M+ uPriCE (unit price of weighing goods) TAX next PLU (change other PLU only this menu) PT last PLU (change other PLU only this menu) Key in Unit price 6.00/kg, press ↵ to confirm</p>
<p>PLU 01 0000 10 Code</p>	<p>Use number key to set PLU code or P/N Key in #000010 Press ↵ to confirm</p>
<p>PLU 01 → APPLE Delay 1s NAME</p>	<p>PLU name can be set 16 bytes. Use keyboard to input "a" ~ "z" Press Shift key to switch to capital "A" ~ "Z" Key in Apple Press ↵ to confirm</p>
<p>PLU 01 10.00 dISC .</p>	<p>Use number key to set discount 0~99.99% Key in 10.00% Press ↵ to confirm</p>

<p>PLU 01 5.00 TAX</p>	<p>Use number key to set tax 0~ 99.99%</p> <p>Key in 5.00%</p> <p>Press  to confirm</p>
<p>PLU 01 1.000 PRETAR</p>	<p>Use number key to set tax pre-tare</p> <p>Key in PT 1.000kg</p> <p>Press  to confirm, enter next PLU automatically</p>
<p>PLU 02 5.55 UPRICE</p>	<p>Use number key to set unit price</p> <p>Use UNIT key to switch weighing units</p> <p> next PLU (change other PLU only this menu)</p> <p> last PLU (change other PLU only this menu)</p> <p>Key in unit price 6.00/kg press  to confirm</p>



3-8 F7 Print report

Use number key "0"~"4" to choose, then press to confirm or to exit.

<pre> F7 REP INTERNAL 0 Print Internal Setting </pre>	<pre> Internal Setting Report 2011/03/16 14:12:37 ===== Version: 09002010 Setting Date: 2011/03/14 Setting Time: 17:45:36 Spec. 60.00/ 0.01/ 0.02kg Decimal Point: 4> 0.00 Country: Sri Lanka Language: English Currency: \$ Total PLU: 35 </pre>	<pre> (height x2) Printing time Program version Date of internal calibration Time of internal calibration Specification Decimal point Common country Common Language Money PLU number </pre>
<pre> F7 REP PLU 1 Print PLU data </pre>	<pre> PLU LIST 2011/03/16 14:42:27 ===== PLU CODE Disc. Tax U/P Name Pre-tare(kg) ===== 01 #000001 5.00% 6.00% 0.50 Apple 0.000 02 #000002 10.00% 2.00% 2.00 Beef 0.000 20 #002130 20.00% 5.00% 1.23 Rice 0.200 35 #402179 12.00% 5.00% 3.45 Sea Food 0.000 ~~~~~ </pre>	<pre> (height x2) Print time </pre>
<pre> F7 REP PLUCHA 2 PLU data change record </pre> <p>Note: Only memorize operation on the scale but not include data transmitted by PC.</p>	<pre> PLU Change LIST 2011/03/16 15:11:25 ===== PLU CODE Disc. Tax U/P Name Pre-tare(kg) ===== **Old** 01 #000000 0.00% 0.00% 0.00 0.000 **New** 01 #000001 5.00% 6.00% 0.50 Apple 0.000 ~~~~~ **Old** 02 #000002 10.00% 2.00% 1.90 Beef 0.200 **New** 02 #000002 10.00% 2.00% 2.00 Beef 0.000 ~~~~~ </pre>	<pre> (height x2) Print time </pre>



<pre> F7 REP DAI LY 3 All-day accumulating report </pre>	<p>Daily Report 2011/03/16 15:38:34 Vendor 1: =====</p> <p>#000000 FREE PRICE Total Net (kg) 250.000 Unit Price (\$) ----- Total Amount (\$) 17.50 -----</p> <p>PLU 1 #000001 Apple Total Net (kg) 1550.005 Unit Price (\$) 1.00 Total Amount (\$) 1550.01 -----</p> <p>NO WEIGHT PLU 2 #000102 Pork Total Pcs (PCS) 15 Unit Price (\$) 2.00 Total Amount (\$) 30.00 -----</p> <p>PLU 3 #000102 Orange Total Net (kg) 1120.015 Unit Price (\$) 3.00 Total Amount (\$) 3360.05 -----</p> <p>PLU 4 #000103 Kiwifruit Total Net (kg) 880.000 Unit Price (\$) 4.00 Total Amount (\$) 3520.00 -----</p> <p>NO WEIGHT PLU 5 #000005 Beef Total Net (kg) 330.000 Unit Price (\$) 5.00 Total Amount (\$) 1650.00 -----</p> <p>NO WEIGHT PLU 6 #000006 Chocolat pie Total Pcs (PCS) 4 Unit Price (\$) 6.00 Total Amount (\$) 24.00 -----</p>	<p>(height x2) Print time Data of vendor 1</p> <p>Free Price of Weighing Good Total Net Unit Price Total Amount(without discount and tax)</p> <p>weighing good PLU 1 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Non-weighing Good PLU 2 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Weighing Good PLU 3 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Non-weighing Good PLU 4 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Weighing Good PLU 5 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Non-weighing Good PLU 6 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p>
--	--	--



	<p>Subtotal (\$) 10151.56 Total Discount(\$)- 2758.84 Total Tax (\$) 1333.49 Total Amount (\$) 8726.21</p> <p style="text-align: center;">Daily Report 2011/03/16 15:41:34 Vendor 2: =====</p> <p style="text-align: center;">PLU 1</p> <p>#000001 Apple Total Net (kg) 5.000 Unit Price (\$) 1.00 Total Amount (\$) 5.00 - - - - -</p> <p style="text-align: center;">PLU 3</p> <p>#000001 Orange Total Net (kg) 2.000 Unit Price (\$) 3.00 Total Amount (\$) 6.00 - - - - -</p> <p>Subtotal (\$) 11.00 Total Discount(\$)- 0.63 Total Tax (\$) 0.32 Total Amount (\$) 10.69</p>	<p>Subtotal(without discount and tax) Total Discount (height x2) Total Tax (height x2) Total Amount(height x2)</p> <p>(height x2) Print time Trade of vendor 2</p> <p>Weighing Good PLU 1 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Weighing Good PLU 3 P/N Name Total Net Unit Price Total Amount(without discount and tax)</p> <p>Subtotal(without discount and tax) Total Discount (height x2) Total Tax (height x2) Total Amount(height x2)</p>
<p>F7 REP HEAD TAIL 4 Print head and tail</p>	<p style="text-align: center;">Head/Tail Print 2011/03/16 15:11:25 =====</p> <p style="text-align: center;">Head</p> <p style="text-align: center;">EXCELL PRECISION CO.,LTD. http://www.excell-scale.com TEL:+886-2-8919-1000</p> <p style="text-align: center;">Tail</p> <p style="text-align: center;">Thank you! See you next time.</p>	<p>(height x2) Print Time</p> <p>(height x2) (height x2) (height x2)</p> <p>(height x2 width x2)</p>



(a) (b) (c) (d) (e) (f) 0 1 1 0 0 0	(a) (b) (c) (d) (e) (f) 1 1 1 0 0 0	(a) (b) (c) (d) (e) (f) 0 0 0 0 0 1
Print as followed:	Print as followed:	Print as followed:
<p>2011/04/28 13:37:02 vender 1: ***** PLU CODE PLU NAME kg (PCS) €/kg (PCS) € ***** #000001 onion NT 2.000 10.00 20.00 Discount -- 5.00% - 1.00 Tax = 6.00% 1.14 =====</p> <p>Subtotal 20.14</p> <p>Total € 20.14</p> <p>Total number of sales 1 2011/04/28 13:37:04 S/N:000040</p>  <p>0020140000401</p> <p>Thank you! See you next time.</p>	<p>EXCELL PRECISION CO., LTD http://www.excell.com.tw TEL:+886-2-8919-1000</p> <p>2011/04/28 13:37:28 vender 1: ***** PLU CODE PLU NAME kg (PCS) €/kg (PCS) € ***** #000001 onion NT 2.000 10.00 20.00 Discount -- 5.00% - 1.00 Tax = 6.00% 1.14 =====</p> <p>Subtotal 20.14</p> <p>Total € 20.14</p> <p>Total number of sales 1 2011/04/28 13:37:29 S/N:000041</p>  <p>0020140000418</p> <p>Thank you! See you next time.</p>	<p>2011/04/28 13:37:58 vender 1: ***** PLU CODE PLU NAME kg (PCS) €/kg (PCS) € ***** #000001 onion NT 2.000 10.00 20.00 Discount -- 5.00% - 1.00 Tax = 6.00% 1.14 =====</p> <p>Subtotal 20.14 Tax = 5.00% 1.01</p> <p>Total € 21.15</p> <p>Total number of sales 1 2011/04/28 13:37:59 S/N:000042</p>

If you pressed **CH** key and input price, press **MC** key to print data including Cash & Change which is shown as below:

```

2011/04/28 13:38:24
vender 1:
*****
PLU CODE      PLU NAME
kg (PCS)      €/kg (PCS)      €
*****
#000001      onion
NT 2.000      10.00      20.00
Discount -- 5.00%      -      1.00
Tax = 6.00%      1.14
=====
Subtotal      20.14
Tax = 5.00%      1.01

Total € 21.15

Total number of sales      1
Cash      25.00
Change      4.86
2011/04/28 13:38:34      S/N:000043

```

3-10 F9 RS232 report transmission

Use RS232 to send data to PC and save as txt file. Then use EXCEL to open it to edit.

Make sure F1 RS232 baud rate and PC baud rate n,8,1 are the same.

Press number key **0** or **1**, then press  to confirm

0: Send PLU data

1: Send all-day accumulated data

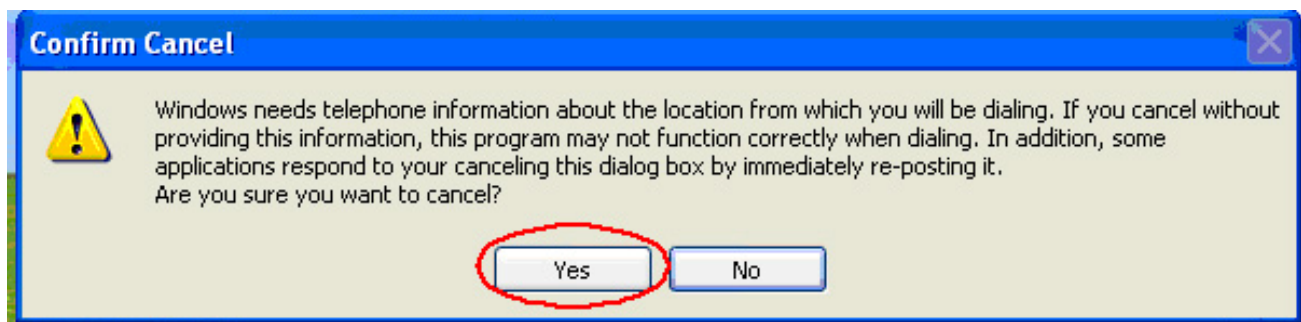
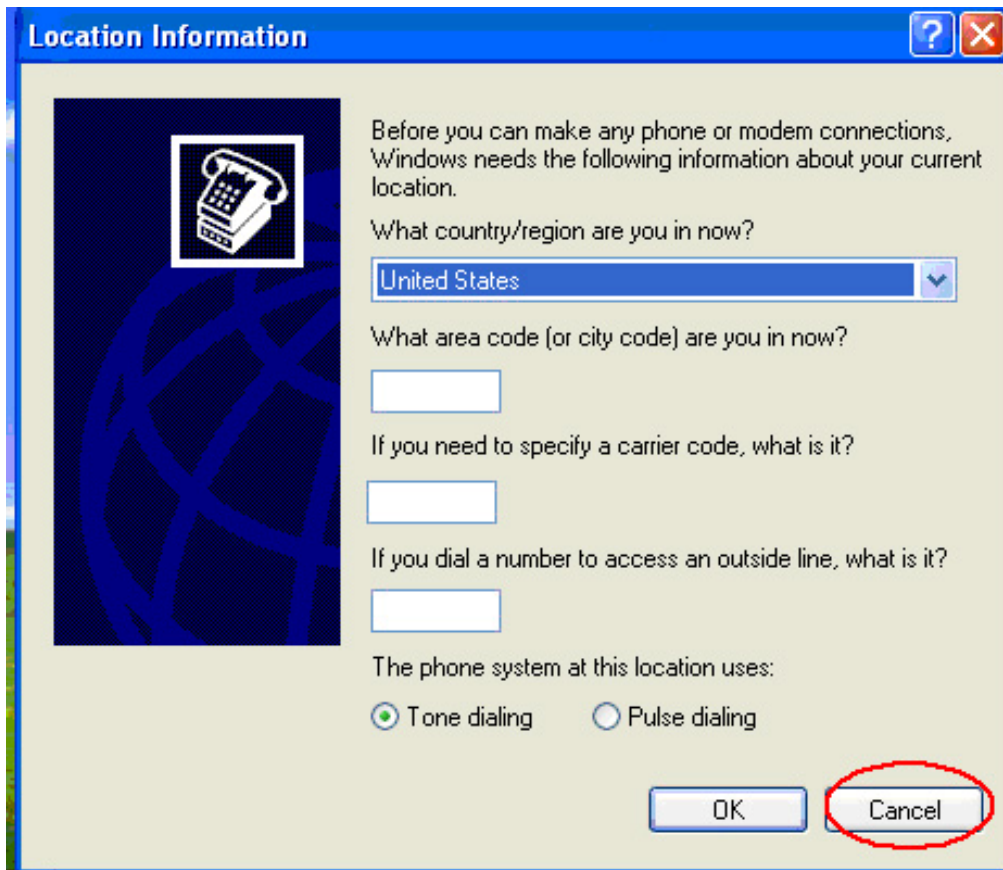
For example:

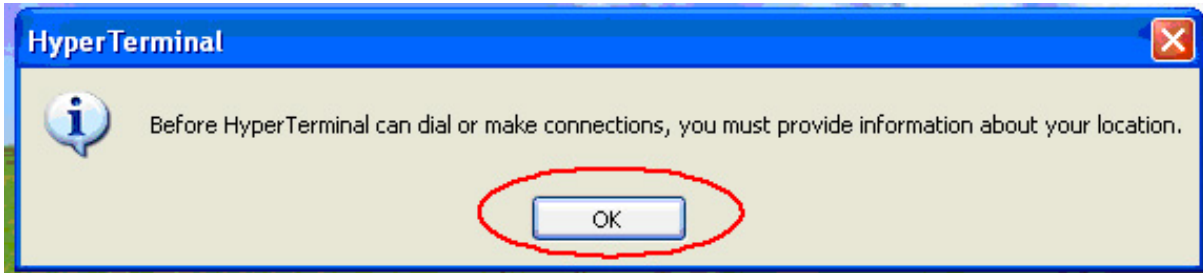
Baud rate: 9600 N,8,1

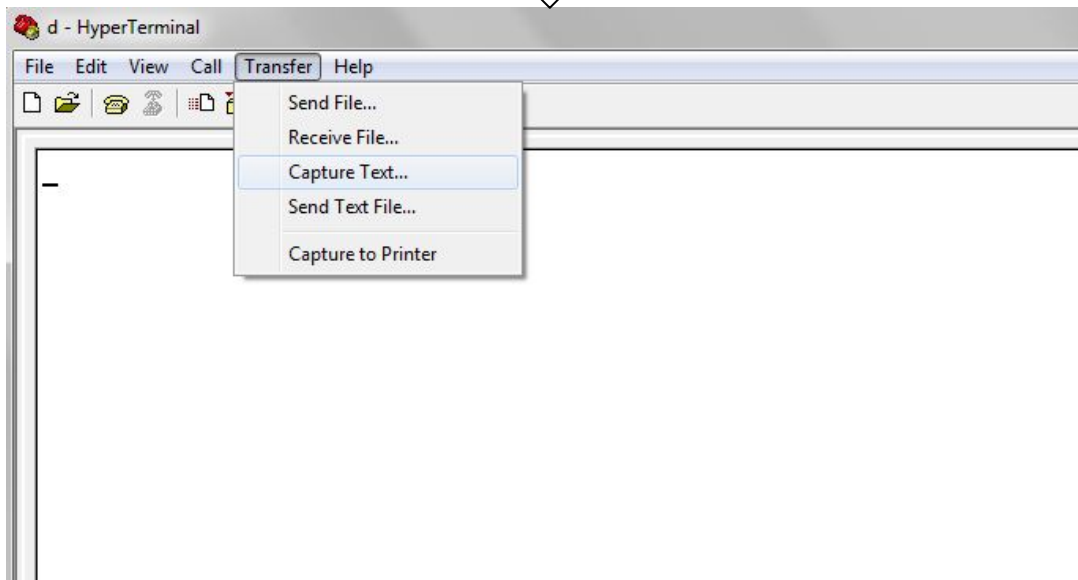
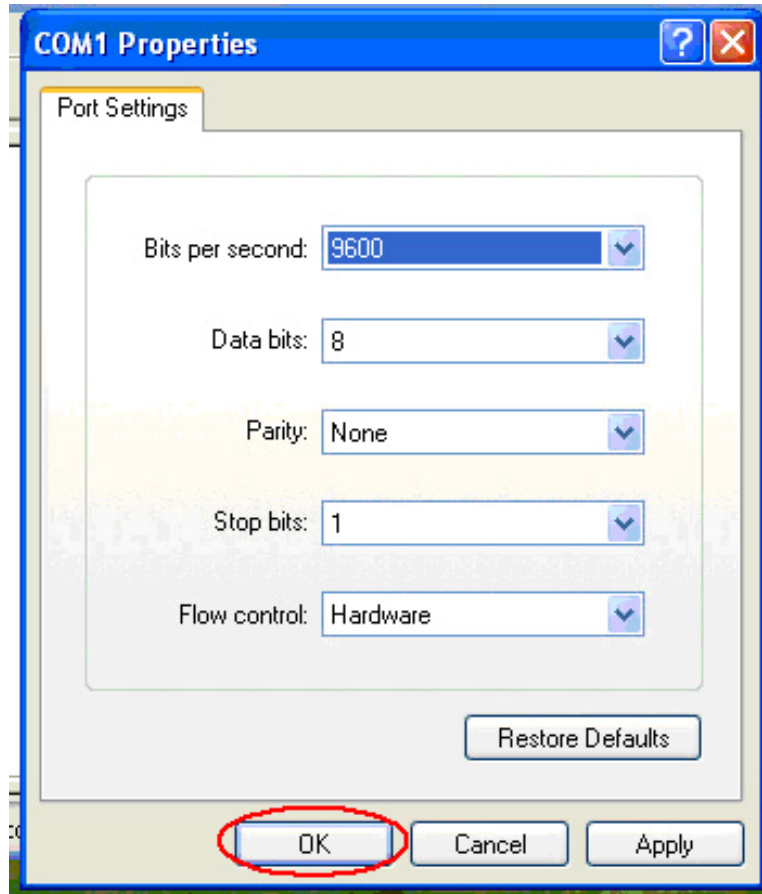
Open the terminating machine on PC to connect.

Steps:

Start > All programs > Accessories > Communications > Hyper Termina

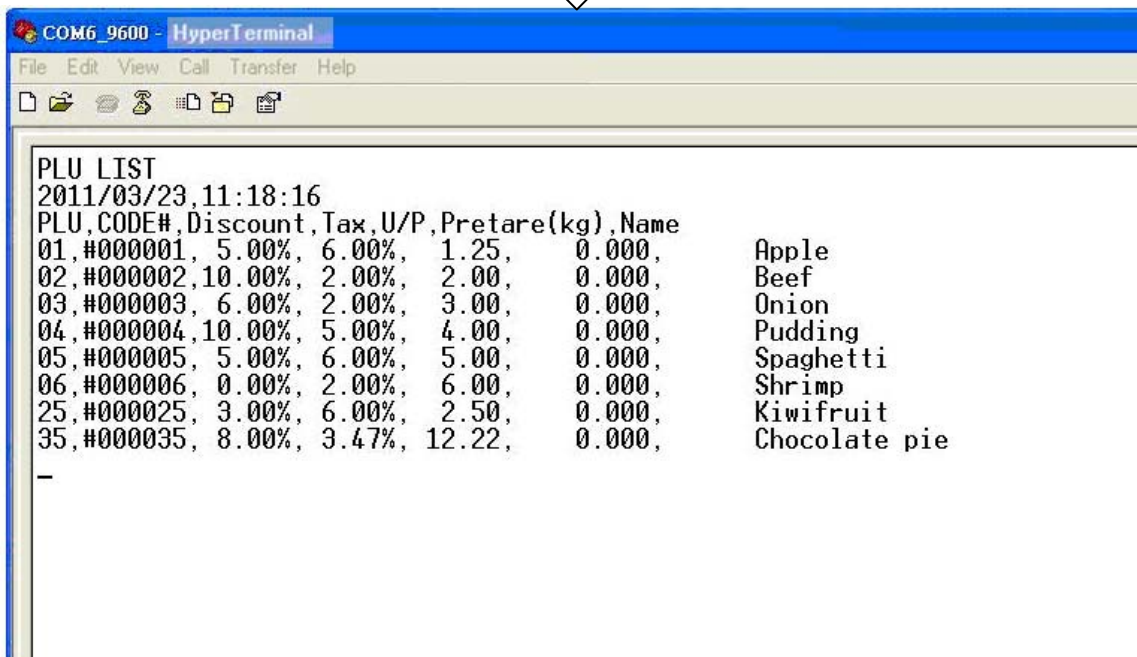
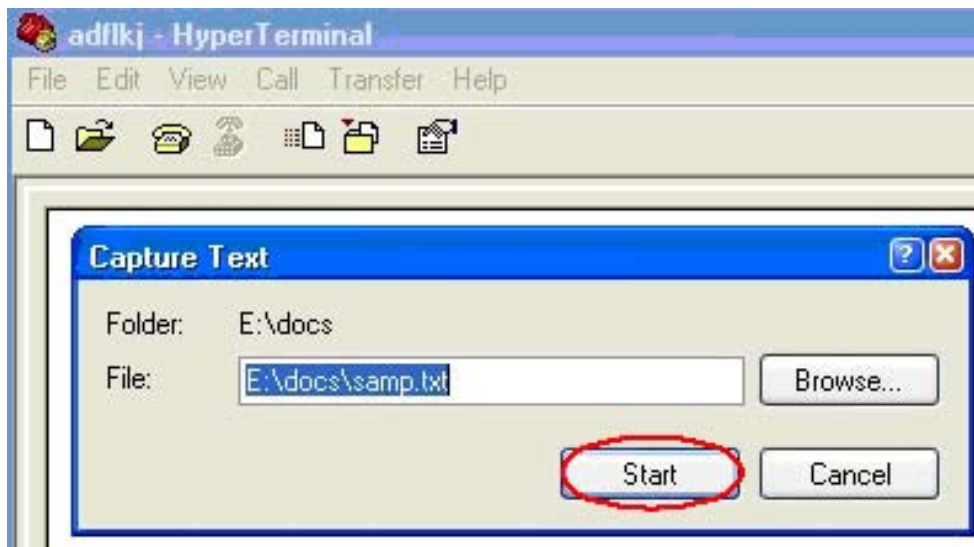


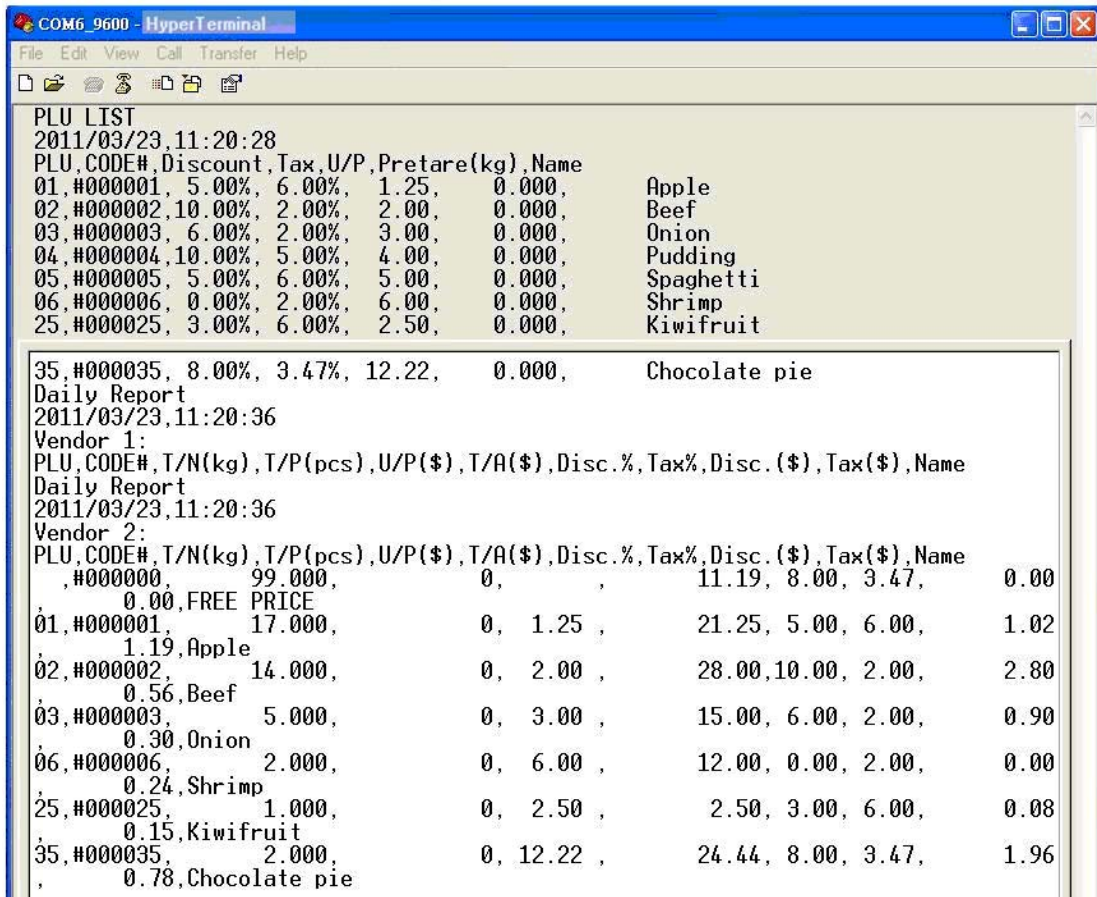




Store the file "*.txt"







COM6_9600 - HyperTerminal

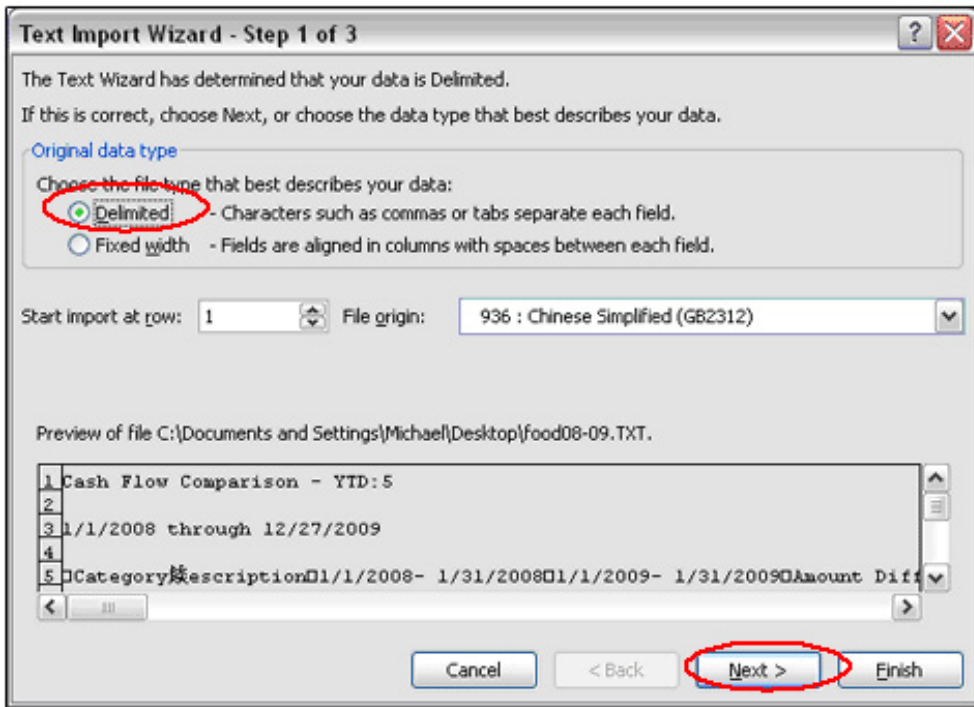
File Edit View Call Transfer Help

PLU LIST
2011/03/23,11:20:28
PLU, CODE#, Discount, Tax, U/P, Pretare(kg), Name
01, #000001, 5.00%, 6.00%, 1.25, 0.000, Apple
02, #000002, 10.00%, 2.00%, 2.00, 0.000, Beef
03, #000003, 6.00%, 2.00%, 3.00, 0.000, Onion
04, #000004, 10.00%, 5.00%, 4.00, 0.000, Pudding
05, #000005, 5.00%, 6.00%, 5.00, 0.000, Spaghetti
06, #000006, 0.00%, 2.00%, 6.00, 0.000, Shrimp
25, #000025, 3.00%, 6.00%, 2.50, 0.000, Kiwifruit

35, #000035, 8.00%, 3.47%, 12.22, 0.000, Chocolate pie
Daily Report
2011/03/23,11:20:36
Vendor 1:
PLU, CODE#, T/N(kg), T/P(pcs), U/P(\$), T/A(\$), Disc.%, Tax%, Disc.(\$), Tax(\$), Name
Daily Report
2011/03/23,11:20:36
Vendor 2:
PLU, CODE#, T/N(kg), T/P(pcs), U/P(\$), T/A(\$), Disc.%, Tax%, Disc.(\$), Tax(\$), Name
, #000000, 99.000, 0, 11.19, 8.00, 3.47, 0.00
, 0.00, FREE PRICE
01, #000001, 17.000, 0, 1.25, 21.25, 5.00, 6.00, 1.02
, 1.19, Apple
02, #000002, 14.000, 0, 2.00, 28.00, 10.00, 2.00, 2.80
, 0.56, Beef
03, #000003, 5.000, 0, 3.00, 15.00, 6.00, 2.00, 0.90
, 0.30, Onion
06, #000006, 2.000, 0, 6.00, 12.00, 0.00, 2.00, 0.00
, 0.24, Shrimp
25, #000025, 1.000, 0, 2.50, 2.50, 3.00, 6.00, 0.08
, 0.15, Kiwifruit
35, #000035, 2.000, 0, 12.22, 24.44, 8.00, 3.47, 1.96
, 0.78, Chocolate pie



Open EXCEL and open old file (*.txt) to set comma separated point.



Text Import Wizard - Step 1 of 3

The Text Wizard has determined that your data is Delimited.
If this is correct, choose Next, or choose the data type that best describes your data.

Original data type

Choose the file type that best describes your data:

Delimited - Characters such as commas or tabs separate each field.

Fixed width - Fields are aligned in columns with spaces between each field.

Start import at row: 1 File origin: 936 : Chinese Simplified (GB2312)

Preview of file C:\Documents and Settings\Michael\Desktop\food08-09.TXT

1 Cash Flow Comparison - YTD:5
2
3 1/1/2008 through 12/27/2009
4
5 Category Description 1/1/2008- 1/31/2008 1/1/2009- 1/31/2009 Amount Diff

Buttons: Cancel, < Back, Next >, Finish



Text Import Wizard - Step 2 of 3

This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.

Delimiters

Tab
 Semicolon
 Comma
 Space
 Other:

Treat consecutive delimiters as one
 Text qualifier: "

Data preview

Date	Size	Type	Mode	UID	GID	Meta	File Name
Wed Dec 31 1969 19:00:00	0	.acb	0	0	0	0	HKCU-Administrator/
Wed Dec 31 1969 19:00:00	0	.acb	0	0	0	0	HKCU-Administrator/
Wed Dec 31 1969 19:00:00	0	.acb	0	0	0	0	HKCU-Administrator/
Wed Dec 31 1969 19:00:00	0	.acb	0	0	0	0	HKCU-Administrator/



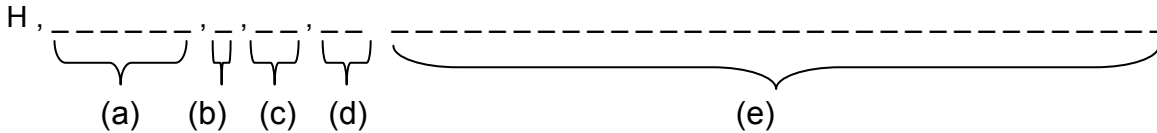
PLU	CODE#	Discount	Tax	U/P	Pretare(kg)	Name
1	#000001	5.00%	6.00%	1.25	0	Apple
2	#000002	10.00%	2.00%	2	0	Beef
3	#000003	6.00%	2.00%	3	0	Onion
4	#000004	10.00%	5.00%	4	0	Pudding
5	#000005	5.00%	6.00%	5	0	Spaghetti
6	#000006	0.00%	2.00%	6	0	Shrimp
25	#000025	3.00%	6.00%	2.5	0	Kiwifruit
35	#000035	8.00%	3.47%	12.22	0	Chocolate pie

PLU	CODE#	T/N(kg)	T/P(pcs)	U/P(\$)	T/A(\$)	Disc.%	Tax%	Disc.(\$)	Tax(\$)	Name
	#000000	99	0	11.19	8	3.47	0	0	0	FREE PRICE
1	#000001	17	0	1.25	21.25	5	6	1.02	1.19	Apple
2	#000002	14	0	2	28	10	2	2.8	0.56	Beef
3	#000003	5	0	3	15	6	2	0.9	0.3	Onion

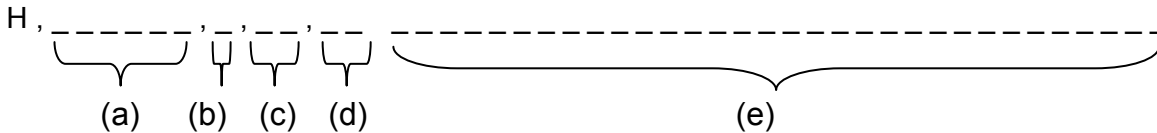
CHAPTER 4 PC SOFTWARE

4-1 Head and Tail Edit

◆ F H Head format



◆ F S Tail format



H: head

T: tail

(a) => Line 000001~000008, use ASCII(HEX) to show 30 30 30 30 30 30 30 30 31~30 30 30 30 30 30 30 38

(b) => Font of ASCII(HEX) code 00 : standard 10: width*2 01:height*2 11:width*2 height*2

(c) => Length of (e) , range from 00 ~ 32 use ASCII(HEX) to show 30 30 ~ 33 32

(d) => Reserve 2byte function

(e) => Edit the content in ASCII(HEX) (Refer to Appendix 4 ASCII CODE TABLE)

For example:

The first line of head is 6 bytes standard font "EXCELL" and line feed.

Address	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Byte	H	,	0	0	0	0	0	1	,		,	0	6	,		
ASCII(PC-858) (HEX)	48	2C	30	30	30	30	30	30	2C	00	2C	30	36	2C	00	00

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
E	X	C	E	L	L										
45	58	43	45	4C	4C	0D	0A	00	00	00	00	00	00	00	00

32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Before transmission, make sure baud rate of RS232 port is the same as the scale (9600 is recommended).

The PC send 48 bytes one time. Once the scale gets data, it return 4 byte: O K X X ("X X" means the line. In this case, "X X" means Address 6、7 (line 1)) to the PC which means the next transmission is available.



48	49	50	51	52	53	54	55	56	57
5	0	0	,	0	0	1	0	0	0
35	30	30	2C	30	30	31	30	30	30

- ☞ Before transmission, make sure baud rate of RS232 port is the same as the scale (9600 is recommended).
- ☞ The PC send 59 bytes one time. Once the scale gets data, it return 4 byte: O K X X (“X X” means the line. In this case, “X X” means Address 4 · 5 (line 12)) to the PC which means the next transmission is available.

4-3 Data Transmission

Windows XP

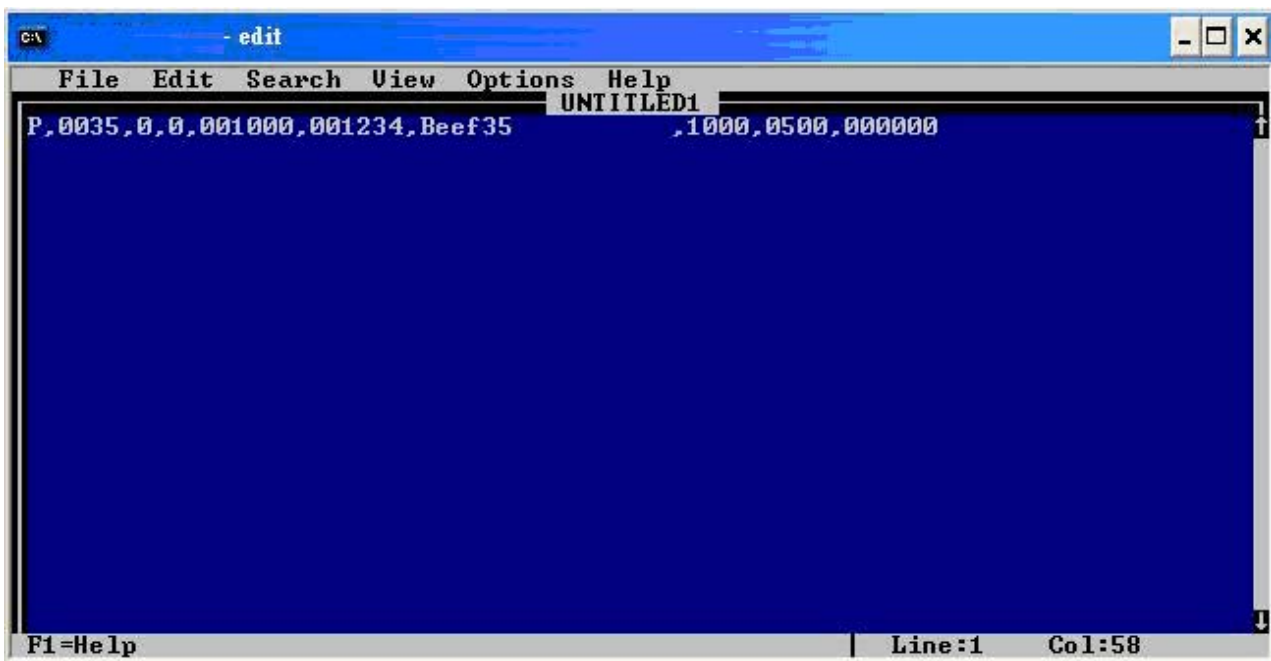
Start > All programs > Accessories > Command Prompt

C:>Documents and Setting>Ken> mode com6:9600,n,8,1

According to the COM on PC
RS232.
Transmitting mode: 9600,n,8,1

Use EDIT to edit needed file (For easier operation, you can download a free software “MadEdit” from the internet.)

C:>Documents and Setting>Ken> edit



Store the file “PLU0035.txt”

C:> Documents and Setting>Ken>copy PLU0035.txt com6
copied (1) File

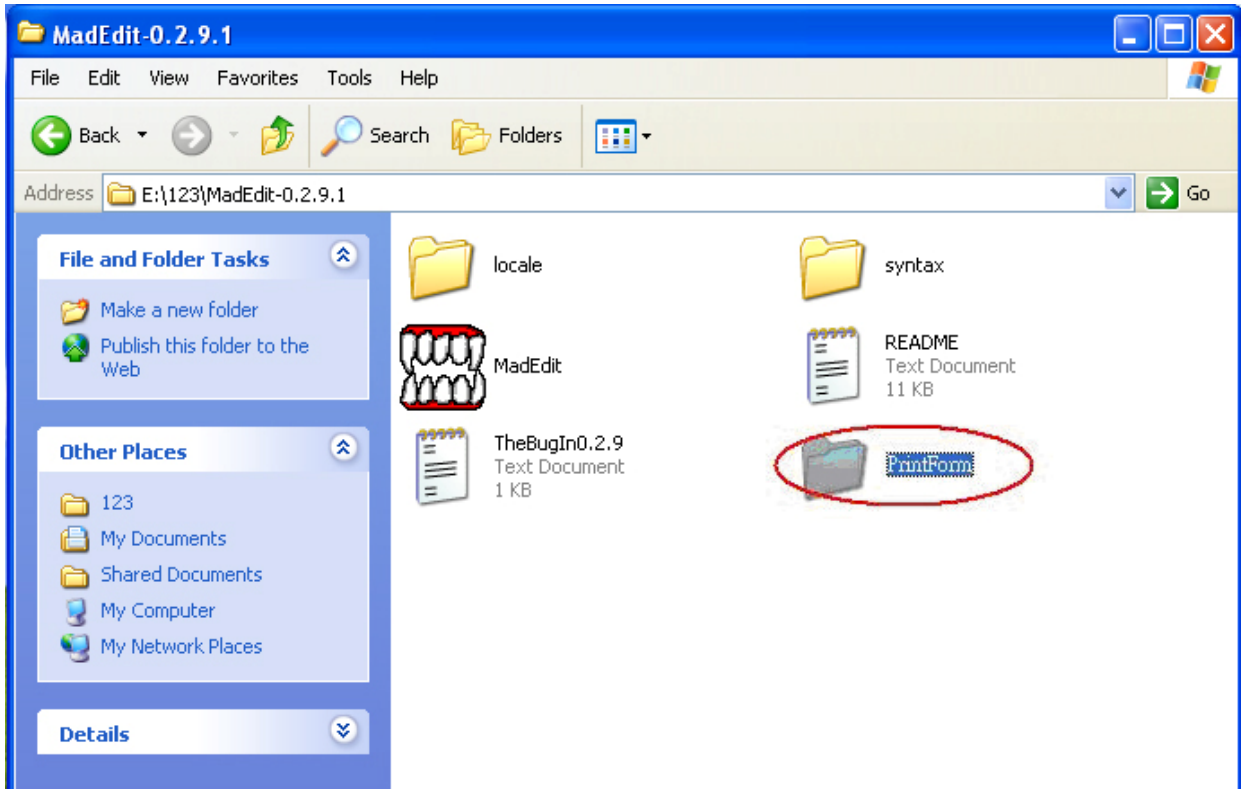
Transmission has been done.

If the transmission failed, the buzzer would beep 2 times. You should check whether the file was wrong.

If the buzzer doesn't beep, the file has been transmitted.

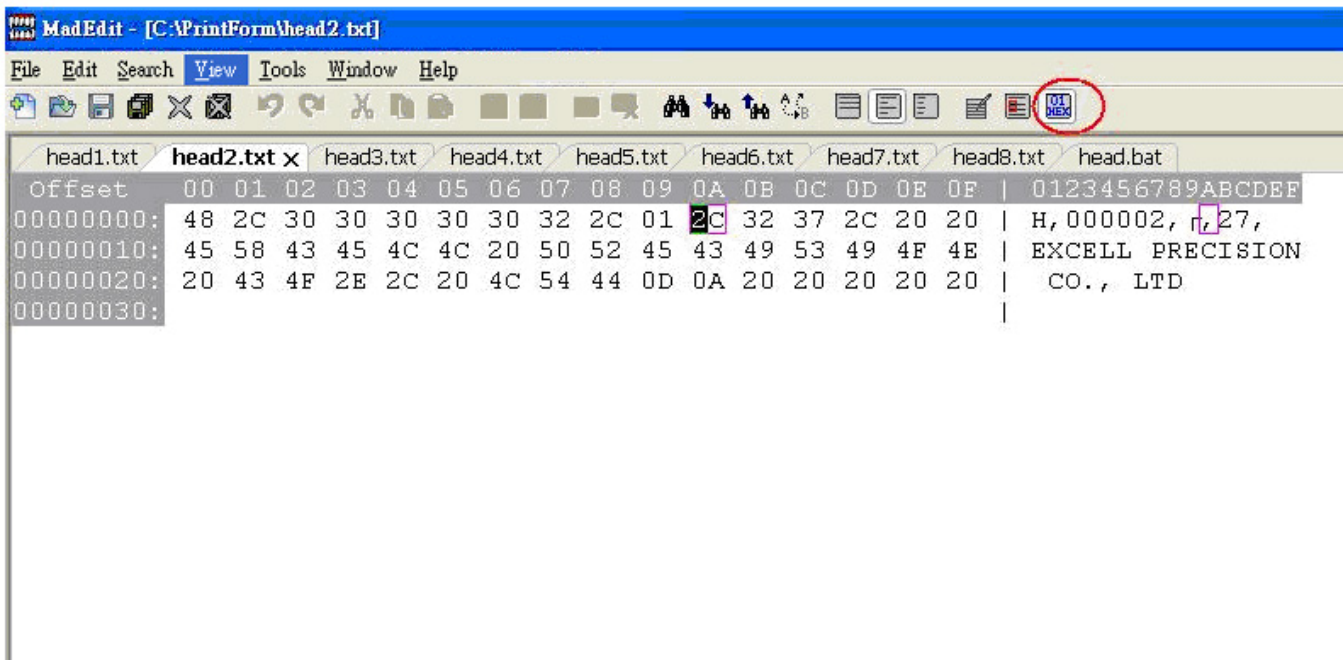
Operation Method of Madedit

- (1)Download “Madedit-0.2.9.1.rar” from the Internet
- (2)Uncompress the file to Disk C
- (3)Create a new folder “PrintForm” in C:\MadEdit-0.2.9.1 (so as to store the file “ *.txt” in it)



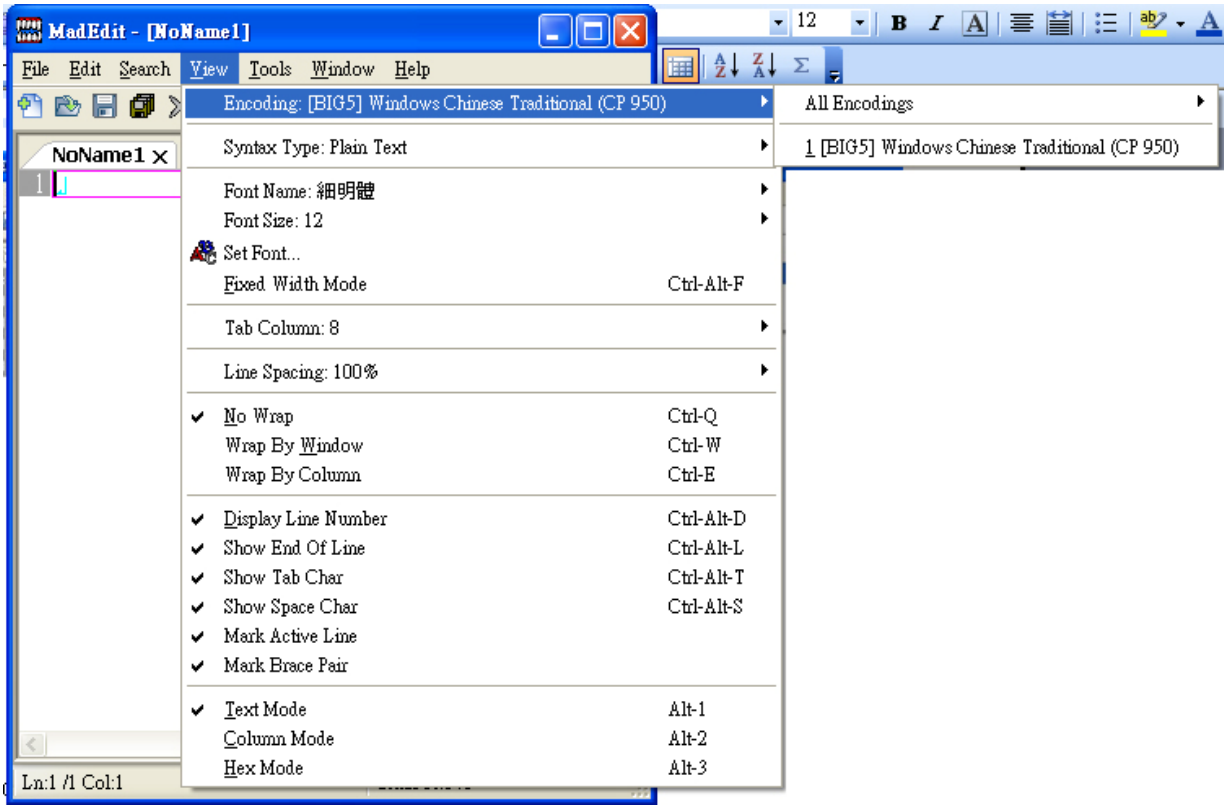
- (4)Double-click MadEdit.exe to open it

Click “01 HEX” as followed to unfold contrast of ASCII (HEX) and txt file. You can edit it randomly.



(5) If there are error codes, please change the display mode as followed.

=> select [UTF-8]Unicode 8 bit(UTF-8)



(6) After confirmation, store the file into folder "PrintForm".

POWER DESCRIPTION

Power Selection

1. 6V 4 Ah rechargeable battery
2. INPUT:100~240VAC 1.2A
OUTPUT:+12VDC 1.5A

Recharge Voltage

SWITCHING POWER

INPUT:100~240VAC 1.2A
OUTPUT:+12VDC 1.5A

Power Consumption


Printer is free



No backlight	60 mA	longer than 65 hours
backlight	70 mA	longer than 55 hours

Printer is working

Longer than 1 hour

Low Battery Warning

Please charge the battery while the display is shown ()symbol.

-  If you don't charge in time, the power will be automatically cut off to protect the battery life after using 20~30 minutes. The scale must be fully charged before operating again.
-  When the low battery warning symbol shows up, please recharge the scale immediately for fear of weight instability or data missing.

☛ Specification of Cashbox RJ11

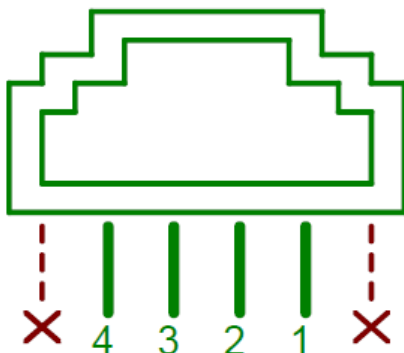


▲ RJ11 Appearance

RJ11 is commonly used to set up telephone line, 4PIN or 6PIN.


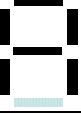






















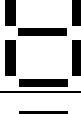













▲ Adapter position under the platter



▲ Pin Assignment

APPENDIX 1: 7 Segment Display Characters

Digit	7 segment letter	Alphabet	7 segment letter	Alphabet	7 segment letter
0		A		N	
1		B		O	
2		C		P	
3		D		Q	
4		E		R	
5		F		S	
6		G		T	
7		H		U	
8		I		V	
9		J		W	
		K		X	
		L		Y	
		M		Z	



APPENDIX 2: ASCII CODE TABLE WPC-1252

Windows-1252 (CP1252)																
	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
0_	NUL 0000 0	SOH 0001 1	STX 0002 2	ETX 0003 3	EOT 0004 4	ENQ 0005 5	ACK 0006 6	BEL 0007 7	BS 0008 8	HT 0009 9	LF 000A 10	VT 000B 11	FF 000C 12	CR 000D 13	SO 000E 14	SI 000F 15
1_	DLE 0010 16	DC1 0011 17	DC2 0012 18	DC3 0013 19	DC4 0014 20	NAK 0015 21	SYN 0016 22	ETB 0017 23	CAN 0018 24	EM 0019 25	SUB 001A 26	ESC 001B 27	FS 001C 28	GS 001D 29	RS 001E 30	US 001F 31
2_	SP 0020 32	! 0021 33	" 0022 34	# 0023 35	\$ 0024 36	% 0025 37	& 0026 38	' 0027 39	(0028 40	) 0029 41	* 002A 42	+ 002B 43	, 002C 44	- 002D 45	. 002E 46	/ 002F 47
3_	0 0030 48	1 0031 49	2 0032 50	3 0033 51	4 0034 52	5 0035 53	6 0036 54	7 0037 55	8 0038 56	9 0039 57	: 003A 58	; 003B 59	< 003C 60	= 003D 61	> 003E 62	? 003F 63
4_	@ 0040 64	A 0041 65	B 0042 66	C 0043 67	D 0044 68	E 0045 69	F 0046 70	G 0047 71	H 0048 72	I 0049 73	J 004A 74	K 004B 75	L 004C 76	M 004D 77	N 004E 78	O 004F 79
5_	P 0050 80	Q 0051 81	R 0052 82	S 0053 83	T 0054 84	U 0055 85	V 0056 86	W 0057 87	X 0058 88	Y 0059 89	Z 005A 90	[005B 91	\ 005C 92	] 005D 93	^ 005E 94	_ 005F 95
6_	` 0060 96	a 0061 97	b 0062 98	c 0063 99	d 0064 100	e 0065 101	f 0066 102	g 0067 103	h 0068 104	i 0069 105	j 006A 106	k 006B 107	l 006C 108	m 006D 109	n 006E 110	o 006F 111
7_	p 0070 112	q 0071 113	r 0072 114	s 0073 115	t 0074 116	u 0075 117	v 0076 118	w 0077 119	x 0078 120	y 0079 121	z 007A 122	{ 007B 123	| 007C 124	} 007D 125	~ 007E 126	DEL 007F 127
8_	€ 20AC 128		‚ 201A 130	ƒ 0192 131	„ 201E 132	… 2026 133	† 2020 134	‡ 2021 135	^ 02C6 136	% 2030 137	Š 0160 138	< 2039 139	Œ 0152 140		Ž 017D 142	
9_		ˆ 2018 145	˜ 2019 146	“ 201C 147	” 201D 148	• 2022 149	– 2013 150	— 2014 151	~ 02DC 152	™ 2122 153	š 0161 154	> 203A 155	œ 0153 156		ž 017E 158	ÿ 0178 159
A_	NBSP 00A0 160	ı 00A1 161	ç 00A2 162	£ 00A3 163	¤ 00A4 164	¥ 00A5 165	¦ 00A6 166	§ 00A7 167	¨ 00A8 168	© 00A9 169	ª 00AA 170	« 00AB 171	¬ 00AC 172	SHY 00AD 173	® 00AE 174	¯ 00AF 175
B_	° 00B0 176	± 00B1 177	² 00B2 178	³ 00B3 179	´ 00B4 180	µ 00B5 181	¶ 00B6 182	· 00B7 183	¸ 00B8 184	¹ 00B9 185	º 00BA 186	» 00BB 187	¼ 00BC 188	½ 00BD 189	¾ 00BE 190	¿ 00BF 191
C_	À 00C0 192	Á 00C1 193	Â 00C2 194	Ã 00C3 195	Ä 00C4 196	Å 00C5 197	Æ 00C6 198	Ç 00C7 199	È 00C8 200	É 00C9 201	Ê 00CA 202	Ë 00CB 203	Ì 00CC 204	Í 00CD 205	Î 00CE 206	Ï 00CF 207
D_	Ð 00D0 208	Ñ 00D1 209	Ò 00D2 210	Ó 00D3 211	Ô 00D4 212	Õ 00D5 213	Ö 00D6 214	× 00D7 215	Ø 00D8 216	Ù 00D9 217	Ú 00DA 218	Û 00DB 219	Ü 00DC 220	Ý 00DD 221	Þ 00DE 222	ß 00DF 223
E_	à 00E0 224	á 00E1 225	â 00E2 226	ã 00E3 227	ä 00E4 228	å 00E5 229	æ 00E6 230	ç 00E7 231	è 00E8 232	é 00E9 233	ê 00EA 234	ë 00EB 235	ì 00EC 236	í 00ED 237	î 00EE 238	ï 00EF 239
F_	ð 00F0 240	ñ 00F1 241	ò 00F2 242	ó 00F3 243	ô 00F4 244	õ 00F5 245	ö 00F6 246	÷ 00F7 247	ø 00F8 248	ù 00F9 249	ú 00FA 250	û 00FB 251	ü 00FC 252	ý 00FD 253	þ 00FE 254	ÿ 00FF 255
	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F

APPENDIX 3: Iran System encoding standard

Code page layout

Only the upper half (128–255) of the table is shown, the lower half (0–127) being plain ASCII. This character set encodes certain presentation forms separately.

	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	.A	.B	.C	.D	.E	.F
8_	• 06F0	ٲ 06F1	ٳ 06F2	ٴ 06F3	ٵ 06F4	ٶ 06F5	ٷ 06F6	ٸ 06F7	ٹ 06F8	ٺ 06F9	ٻ 060C	ټ 0640	ٽ 061F	ٿ FE81	ٽ FE8B*	ٺ 0621
9_	ا FE8D	ل FE8E	ب FE8F*	ب FE91**	پ FB56*	پ FB58**	ت FE95*	ت FE97**	ث FE99*	ث FE9B**	ج FE9D*	ج FE9F**	چ FB7C*	چ FB7C**	ح FEA1*	ح FEA3**
A_	خ FEA5*	خ FEA7**	د 062F	ذ 0630	ر 0631	ز 0632	ژ 0698	س FEB1	س FEB3	ش FEB5	ش FEB7	ص FEB9	ص FEBB	ض FEBD	ض FEBF	ط 0637
B_	۰ 2591	۱ 2592	۲ 2593	۳ 2502	۴ 2524	۵ 2561	۶ 2562	۷ 2556	۸ 2555	۹ 2563	۰ 2551	۱ 2557	۲ 255D	۳ 255C	۴ 255B	۵ 2510
C_	۶ 2514	۷ 2534	۸ 252C	۹ 251C	۰ 2500	۱ 253C	۲ 255E	۳ 255F	۴ 255A	۵ 2554	۶ 2569	۷ 2566	۸ 2560	۹ 2550	۰ 256C	۱ 2567
D_	۱ 2568	۲ 2564	۳ 2565	۴ 2559	۵ 2558	۶ 2552	۷ 2553	۸ 256B	۹ 256A	۰ 2518	۱ 250C	۲ 2588	۳ 2584	۴ 258C	۵ 2590	۶ 2580
E_	ظ 0638	ع FEC9*	ع FECA**	ع FECC*	ع FECB**	غ FECD*	غ FECE**	غ FED0*	غ FECF**	ف FED1*	ف FED3**	ق FED5*	ق FED7**	ک FB8E*	ک FB90**	گ FB92*
F_	گ FB94**	ل FEDD*	لا FEPB*	ل FEDF**	م FEE1*	م FEE3**	ن FEE5*	ن FEE7**	و 0648	ه FEE9*	ه FEEC	ه FEEB	ی FBFD	ی FBFC	ی FBFE**	00A0
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	.A	.B	.C	.D	.E	.F

*The code point given is for the isolated form, the final form is also encoded.

**The code point given is for the initial form, the medial form is also encoded.