Barcode Scanner

Programming Manual

32-bit v 1.0

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Getting Started

Installing the Keyboard Wedge Scanner

To install the keyboard wedge scanner, follow the steps as listed below:

1) Make sure that the scanner has the Keyboard connector for the host device (a PC or terminal)
2) Turn off the power of the host device
3) Unplug the keyboard from the system
4) Connect the cable to the system and keyboard
5) Turn on the power of the system
6) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Installing the RS-232 Interface Scanner

To install the RS-232 interface scanner, the host device should have an RS-232 port to receive data from the scanner, follow the steps as listed below:

1) Make sure that the scanner has the RS-232 connector for the RS-232 port of the host device
2) Make sure that there is a power supply to the scanner (if necessary)
3) Connect the cable to the RS-232 port of the device
4) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

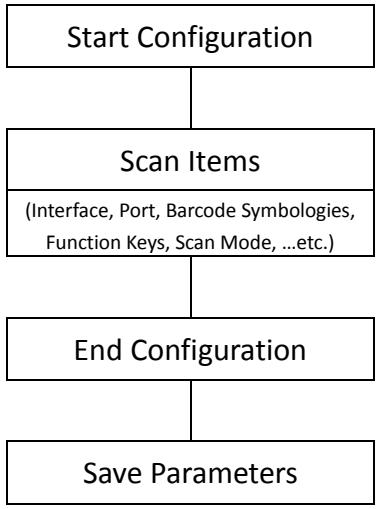
Installing the USB Interface Scanner

To install the USB interface scanner, the host device should have a USB port to receive data from the scanner, follow the steps as listed below:

1) Make sure that the scanner has USB connector for the USB port of the host device
2) Connect the cable to the USB port of the device
3) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Configuration of the Scanner

Setup Flow Chart



To configure the scanner:

1. Scan the “Start Configuration” to enter the configuration mode.
2. Select and scan the desired labels to configure the scanner (Interface, communication parameters, baud rate ...etc.)
3. Scan the Symbology Selections to enable/disable the barcode symbologies preferred.
4. As the configuration is completed, scan the item “End Configuration” to exit the configuration mode.
5. Remember to scan the label “Save Parameters” to save the new settings into the scanner.

Operation Parameters

Configuration Items

Start Configuration
Scan the barcode to enable the scanner to the configuration Mode

Recall Stored Parameters
Replace the current parameters by the parameters you saved last time.

Set All Defaults
Set all the parameters to the factory default settings.

End Configuration
Exit the Configuration Mode

Save Parameters
The parameter settings will be saved permanently.

Abort Configuration -
Terminate current programming status.

Show Version
Display the decoder version information and date code.

Group 0: Interface Selection

Start Configuration

End Configuration

Save Parameters

KEYBOARD

RS-232

USB

Virtual COM

Note: The interface is preset at factory according to the model of the device.

Group 1: Scan Mode Selection

Start Configuration

End Configuration

Save Parameters

Good Read OFF (*)

Trigger ON/OFF

Continuous/Trigger OFF

Testing

Continuous/Auto Power On

Flash

Flash/Auto Power On

Reserved1

Auto Sense(Option)

Reserved3

Group 1: Scan Mode Selection

Start Configuration

End Configuration

Save Parameters

Reserved4

Reserved5

Group 2: RS232 Communication Parameters

Start Configuration

End Configuration

Save Parameters

A. BAUD Rate Setup

2400

1200

9600 (*)

4800

38400

19200

B. Data Bits Setup

7 Data Bits

8 Data Bits (*)

Group 2: RS232 Communication Parameters

Start Configuration

End Configuration

Save Parameters

C. Stop Bits Setup

1 Bit (*)

2 Bits

D. Parity Setup

None (*)

Even

Odd

Mark

Space

Group 2: RS232 Communication Parameters

Start Configuration

End Configuration

Save Parameters

E. Handshaking

RTS/CTS Enable

RTS/CTS Disable (*)

ACK/NAK Enable

ACK/NAK Disable (*)

XON/XOFF Enable

XON/XOFF Disable (*)

Group 3: Device Selection for Keyboard Interface

Start Configuration

End Configuration

Save Parameters

A. Terminal Type

IBM PC/AT, PS/2

IBM PC/XT

IBM PS/2 25, 30

NEC 9800

Apple Desktop Bus(ADB)

IBM 5550

IBM 122 Key (1)

IBM 102 Key

IBM 122 Key (2)

Group 3: Device Selection for Keyboard Interface

Start Configuration

End Configuration

Save Parameters

Reserved 1

Reserved 2

Reserved 3

Reserved 4

Reserved 5

B. Upper/Lower Case

No Change (*)

Upper Case

Lower Case

Group 3: Device Selection for Keyboard Interface

Start Configuration

End Configuration

Save Parameters

C. Caps Lock Detection

Enable

Disable (*)

D. Send Character by ALT Method

Enable

Disable (*)

E. Select Numerical Pad

ON

OFF (*)

Group 4: Output Characters Parameters

Start Configuration

End Configuration

Save Parameters

A. Select Terminator

CR+LF (*)

None

CR

LF

Space

HT(TAB)

STX-ETX

Group 4: Output Characters Parameters

Start Configuration

End Configuration

Save Parameters

B. Time-out Between Characters

0 ms (*)

5 ms

10 ms

25 ms

50 ms

100 ms

200 ms

300 ms

Barcodes & General Parameters

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

UPC-A

Enable (*)

Disable

UPC-E

Enable (*)

Disable

EAN-13/JAN-13/ISBN-13

Enable (*)

Disable

EAN-8/JAN-8

Enable (*)

Disable

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

CODE 39

Enable (*)

Disable

CODE 128

Enable (*)

Disable

CODABAR/NW7

Enable (*)

Disable

Interleave 25

Enable (*)

Disable

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

Industrial 25

Enable

Disable (*)

Matrix 25

Enable

Disable (*)

CODE 93

Enable

Disable (*)

CODE 11

Enable

Disable (*)

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

China Postage

Enable

Disable (*)

MSI/PLESSEY

Enable

Disable (*)

Code 2 of 6

Enable

Disable (*)

LCD25

Enable

Disable (*)

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

Telepen

Enable

Disable (*)

Reserved5

Enable

Disable (*)

Reserved6

Enable

Disable (*)

Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

GS1 DataBar Omnidirectional

Enable

Disable (*)

GS1 DataBar Limited

Enable

Disable (*)

GS1 DataBAll Bar Codesar Expanded

Enable

Disable (*)

Enable All Barodes

Group 6: UPC/EANI/JAN Parameters

Start Configuration

End Configuration

Save Parameters

A. Reading Type

UPCA=EAN13

Enable

Disable (*)

ISBN-1C/ ISBN-13

ISBN-1C Enable

ISBN-13Enable (*)

ISSN

Enable

Disable (*)

Decode with Supplement

Enable

Auto discriminate Supplement

Enable (*)

Group 6: UPC/EANI/JAN Parameters

Start Configuration

End Configuration

Save Parameters

Expand UPC-E

Enable

Disable (*)

EAN8=EAN13

Enable

Disable (*)

GTIN Format

Enable

Disable (*)

Group 6: UPC/EANI/JAN Parameters

Start Configuration

End Configuration

Save Parameters

B. Supplemental Set Up

Not Transmit

Transmit 2 Code

Transmit 5 Code

Transmit 2&5 Code

C. Check Digit Transmission

UPC-A Check Digit Transmission

Enable (*)

Disable

UPC-E Check Digit Transmission

Enable (*)

Disable

Group 6: UPC/EANI/JAN Parameters

Start Configuration

End Configuration

Save Parameters

EAN-8 Check Digit Transmission

Enable (*)

Disable

EAN-13 Check Digit Transmission

Enable (*)

Disable

ISSN Check Digit Transmissionn

Enable (*)

Disable

Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

A. Type of Code

Standard (*)

Full ASCII

Italian Pharmacy/Code 32

Enable (*)

Italian Pharmacy/ Code 32

Disable

B. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Disable

Calculate Check Digit & Not Transmit

Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

C. Output Start/Stop Character

Enable

Disable (*)

D. Decode Asterisk

Enable

Disable (*)

Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

E. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set length to 8
   Scan Decimal “8” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

8	~~**08**~~
(CORRECT)	(WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 8: Code 128 Parameters

Start Configuration

End Configuration

Save Parameters

A. Reading Type

UCC/EA1-128

Enable

Disable (*)

C1 Code Format

Enable (*)

Disable

Code128 Group Separators(GS)

Enable (*)

Disable

Group 8: Code 128 Parameters

Start Configuration

End Configuration

Save Parameters

B. Check Digit Transmission

Do Not Calculate Check Digit UCC/EA1-128

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

(*)

C. Append FNC2

Enable

Disable (*)

Group 8: Code 128 Parameters

Start Configuration

End Configuration

Save Parameters

D. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length (2 Sets Available)

1st Set Begin

1st Set Complete

Group 8: Code 128 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 8
   Scan Decimal “8” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   8 (CORRECT) ~~**08**~~ (WRONG)
4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length (2 Sets Available)

2nd Set Begin

2nd Set Complete

Group 8: Code 128 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   9 (CORRECT) ~~**09**~~ (WRONG)

   Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 9: Interleave 25 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

B. Set Up Number of Character

EVEN (*)

ODD

C. Brazilian Banking Code

Enable

Disable (*)

Group 9: Interleave 25 Parameters

Start Configuration

End Configuration

Save Parameters

D. Set 8p Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

5. Scan “Start Configuration” label.
6. Scan the “1st Set Begin” label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

8. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 9: Interleave 25 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

5. Scan “Start Configuration” label.
6. Scan the “2nd Set Begin“ label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 8
   Scan Decimal “8” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   8 (CORRECT) ~~**08**~~ (WRONG)
8. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 9: Interleave 25 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

5. Scan “Start Configuration” label.
6. Complete the 1st or 2nd set of fixed length configuration.
7. Scan the “Minimum Length Begin“ label
8. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 7
   Scan Decimal “7” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   7 (CORRECT) ~~**07**~~ (WRONG)

   Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 10: Industrial 25 Parameters

Start Configuration

End Configuration

Save Parameters

A. Reading type

IATA25

Enable

Disable (*)

B. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate
Check Digit & Transmit

Calculate Check Digit&
Not Transmit

Group 10: Industrial 25 Parameters

Start Configuration

End Configuration

Save Parameters

C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 11
   Scan Decimal “1” then scan “1”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 10: Industrial 25 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

9. Scan “Start Configuration” label.
10. Scan the “2nd Set Begin“ label.
11. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

    i.e.: To Set code length to 7
    Scan Decimal “7” then continue

    DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

    7 (CORRECT) ~~**07**~~ (WRONG)
12. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 10: Industrial 25 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

9. Scan “Start Configuration” label.
10. Complete the 1st or 2nd set of fixed length configuration.
11. Scan the “Minimum Length Begin“ label
12. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
    i.e.: To Set length to 9
    Scan Decimal “9” then continue

    DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

    9 (CORRECT) ~~**09**~~ (WRONG)

    Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 11: Matrix 25 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

Group 11: Matrix 25 Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 11: Matrix 25 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 7
   Scan Decimal “7” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   7 (CORRECT) ~~**07**~~ (WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 11: Matrix 25 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 12: CODABAR/NW7 Parameters

Start Configuration

End Configuration

Save Parameters

A. Set Up Start/Stop Characters Upon Transmission

Enable

Disable (*)

Group 12: CODABAR/NW7 Parameters

Start Configuration

End Configuration

Save Parameters

B. Transmission Type of Start/Stop

A/B/C/D Start

A/B/C/D Stop

A Start

A Stop

B Start

B Stop

C Start

C Stop

D Start

D Stop

Group 12: CODABAR/NW7 Parameters

Start Configuration

End Configuration

Save Parameters

C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 11
   Scan Decimal “1” then scan “1”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 12: CODABAR/NW7 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 7
   Scan Decimal “7” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   7 (CORRECT) ~~**07**~~ (WRONG)
4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 12: CODABAR/NW7 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 13: Code 93 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Calculate Check 2 Digits & Not Transmit

(*)

Do Not Calculate Check Digit

Group 13: Code 93 Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 13: Code 93 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 6
   Scan Decimal “6” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

6	~~**06**~~
(CORRECT)	(WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 13: Code 93 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 14: Code 11 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit
(*)

Calculate
Check 1 Digit & Transmit

Calculate
Check 1 Digit & Not Transmit

Calculate
Check 2 Digits & Transmit

Calculate
Check 2 Digits &
Not Transmit

Group 14: Code 11 Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 14: Code 11 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 7
   Scan Decimal “7” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   7 (CORRECT) ~~**07**~~ (WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 14: Code 11 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 15: MSI/PLESSEY Code Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

(*)

Group 15: MSI/PLESSEY Code Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 15: MSI/PLESSEY Code Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 15: MSI/PLESSEY Code Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

12	**9**	~~**09**~~
(CORRECT)	(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 16: Code 2 of 6 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

Group 16: Code 2 of 6 Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 16: Code 2 of 6 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

5. Scan “Start Configuration” label.
6. Scan the “2nd Set Begin“ label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   9 (CORRECT) ~~**09**~~ (WRONG)

8. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 16: Code 2 of 6 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

6. Scan “Start Configuration” label.
7. Complete the 1st or 2nd set of fixed length configuration.
8. Scan the “Minimum Length Begin“ label
9. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

12	**9**	~~**09**~~
(CORRECT)	(CORRECT)	(WRONG)

10. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 17: LCD25 Parameters

Start Configuration

End Configuration

Save Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

Group 17: LCD25 Parameters

Start Configuration

End Configuration

Save Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length

1st Set Begin

1st Set Complete

Group 17: LCD25 Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

9	~~**09**~~
(CORRECT)	(WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length

2nd Set Begin

2nd Set Complete

Group 17: LCD25 Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:

This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

12	**9**	~~**09**~~
(CORRECT)	(CORRECT)	(WRONG)
5. Scan the “Minimum Length Complete” label

Note:

Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 18: Telepen Parameters

Start Configuration

End Configuration

Save Parameters

A. Reading Type

Full ASCII Mode

(*)

Compressed Numeric Mode

B. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit& Not Transmit

(*)

Group 18: Telepen Parameters

Start Configuration

End Configuration

Save Parameters

C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Variable (*)

1st Set of Fix Length (2 Sets Available)

1st Set Begin

1st Set Complete

Group 18: Telepen Parameters

Start Configuration

End Configuration

Save Parameters

To set the2nd set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin“ label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 8
   Scan Decimal “8” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   8 (CORRECT) **~~08~~** (WRONG)
4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length (2 Sets Available)

2nd Set Begin

2nd Set Complete

Group 18: Telepen Parameters

Start Configuration

End Configuration

Save Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:

1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin“ label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

   9 (CORRECT) ~~**09**~~ (WRONG)

   Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete

Group 19: GS1 Databar Parameters

Start Configuration

End Configuration

Save Parameters

A. GS1 DataBar Omnidirectionl

Transmit Check Digit

(*)

Don‟t Transmit Check Digit

Transmit Application ID

(*)

Don’t Transmit Application ID

Transmit Symbology ID

Don’t Transmit Symbology ID

(*)

Group 19: GS1 Databar Parameters

Start Configuration

End Configuration

Save Parameters

B. GS1 DataBar Limited Parameters

Transmit Check Digit

(*)

Don't Transmit Check Digit

Transmit Application ID

(*)

Don't Transmit Application ID

Transmit Symbology ID

Don't Transmit Symbology ID

(*)

C. GS1 DataBar Expanded Parameters

Transmit Symbology ID

(*)

Don't Transmit Symbology ID

Group 20: Language Selection

Start Configuration

End Configuration

Save Parameters

English (USA)

(*)

English (UK)

Italian

Spanish

French

German

Swedish

Switzerland

Hungarian

Japanese

Group 20: Language Selection

Start Configuration

End Configuration

Save Parameters

Belgium

Portuguese

Denmark

Netherlands

Turkey

Reserved2

Group 21: Barcode ID

Start Configuration

End Configuration

Save Parameters

A. Pre-Defined Barcode ID

Barcode ID ON

Barcode ID OFF (*)

Restore
Pre-Defined Barcode ID

The Identifying Barcode ID is an optional code to identify the barcodes that user scanned.

With this function ON, a leading character will be added to the output string while scanning code; user may refer to the following table to know what kind of bar code is being scanned.

Please refer to the table below for
Pre-Defined Barcode ID.

To Restore the Pre-Defined Barcode ID:

1. Scan “Start Configuration” label
2. Scan “Barcode ID ON” label.
3. Scan “Restore Pre-Defined Barcode ID” label. All Barcode IDs will restore to the pre-defined value.

Group 21: Barcode ID

Start Configuration

End Configuration

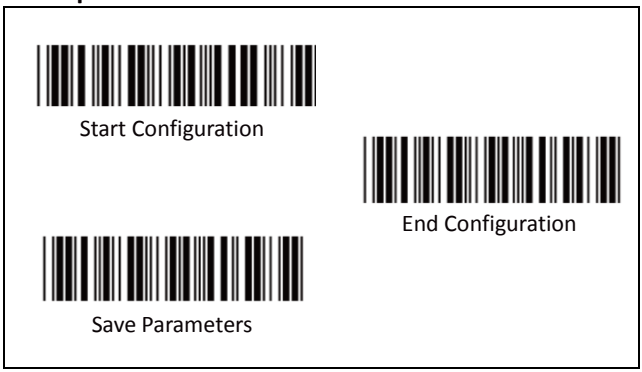
Save Parameters

Pre-Defined Barcode ID Table

Code Type	ID	Code Type	ID
UPC-A	A	China Postage	M
UPC-E	B	MSI/PLESSEY	N
EAN-8	C	---	--
EAN-13	D	Code 2 of 6	P
CODE 39	E	LCD25	Q
CODE 128	F	Telepen	T
Interleave 25	G	GS1 Databar Omnidirectional	U
Industrial 25	H		
Matrix 25	I	GS1 DataBar Limited	V
Codabar/NW7	J		
CODE 93	K	GS1 DataBar Expanded	W
CODE 11	L		

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Group 21: Barcode ID



B. User Define Barcode ID

The user can change the Barcode ID with the User-Define Barcode ID instead.

Note: Avoid Barcode ID Identity Conflict
The User-Define Barcode ID will overwrite the original default ID value corresponding to the barcode.

DO NOT set two or more different Barcodes as one same Barcode ID. It is possible to have more than two symbologies which have same barcode ID and cause identity conflict.

Group 21: Barcode ID

Start Configuration

End Configuration

Save Parameters

Barcode ID ON

Barcode ID OFF (*)

Restore
Pre-Defined Barcode ID

To set the User-Define Barcode ID:

1. Scan “Start Configuration” label
2. Scan “Barcode ID ON” label.
3. Scan the symbologies label (see next page) to select the desired barcode type.
4. Go to the ASCII Tables in Appendix B, scan the label that represents the desired barcode ID.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Group 21: Barcode ID

Start Configuration

End Configuration

Save Parameters

UPC-A

UPC-E

EAN-13/JAN-13

EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/NW7

Interleave 25

Industrial 25

Matrix 25

CODE 93

Group 21: Barcode ID

Start Configuration

End Configuration

Save Parameters

ChinaPostage

CODE 11

Code 2 of 6

MSI/PLESSEY

LCD25

Telepen

GS1 DataBar Limited

GS1 DataBar Omnidirectional

GS1 DataBar Expanded

Reserved6

Reserved5

Group 22: Reading Level & Accuracy Settings

Start Configuration

End Configuration

Save Parameters

A. Reading Level

Bar Equals High

Bar Equals Low

(*)

B. Accuracy

1 Time

(*)

2 Times

3 Times

4 Times

Group 23: Buzzer Beep Tone

Start Configuration

End Configuration

Save Parameters

HIGH (*)

MEDIUM

LOW

OFF

Group 24: Reverse Output Characters

Start Configuration

End Configuration

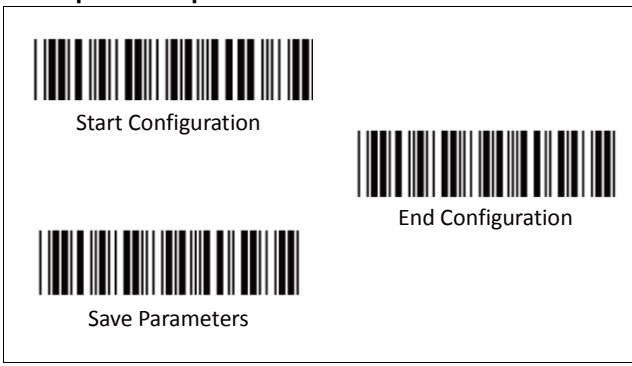
Save Parameters

Enable

Disable (*)

Warning:
This function will reverse all types of scanned barcode data. Please consult the technical personnel before configuration.

Group 25: Setup Barcode Deletion



To set the barcode deletion of output characters (1st~6th set available):

1. Scan “Start Configuration” label.
2. **Deletion Set Number:**
   Scan the set number label (1st set ~ 6th set).
3. **Symbologies Selection:**
   Scan the barcode type label (see next page).
4. **Set Character Position to be Deleted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the **“Complete”** label to confirm the Position number.

5. **Set Number of Characters to be Deleted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the **“Complete”** label to confirm the Position number.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

A. Select Deletion Set Number

1st Set

2nd Set

3rd Set

4th Set

5th Set

6th Set

Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

B. Symbologies Selection

UPCA

UPCE

EAN-13/JAN-13/ISBN-13

EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/N97

Interleave 25

Industrial 25

Matrix 25

Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

CODE 93

CODE 11

China Postage

MSI/PLESSEY

Telepen

Code 2 of 6

GS1 DataBar Omnidirectional

LCD25

GS1 DataBar Expanded

GS1 DataBar Limited

Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

None

All Codes

C. Character Position to be Deleted

Please scan the number (refer to Appendix A) to set the character position to be deleted.

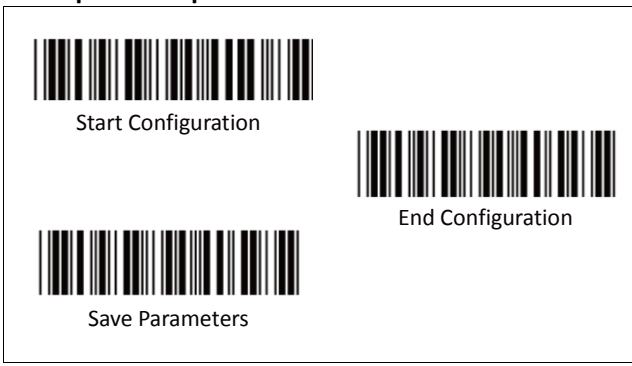
Character Position Setting Completed

D. Number of Characters to be Deleted

Please scan the number (refer to Appendix A) to set the number of characters to be deleted.

Number of Characters Setting Completed

Group 26: Setup Barcode Insertion



To set the insertion of output barcode data characters (1st~6th set available):

1. Scan “Start Configuration” label.
2. **Insertion Set Number:**
   Scan the set number label (1st set ~ 6th set).
3. **Symbologies Selection:**
   Scan the barcode type label (see next page).
4. **Set Character Position to be Inserted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the **“Complete”** label to confirm the Position number.

5. **Set Number of Characters to be Inserted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the **“Complete”** label to confirm the Position number.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Group 26: Setup Barcode Insertion

Start Configuration

End Configuration

Save Parameters

A. Select Insertion Set Number

1st Set

2nd Set

3rd Set

4th Set

5th Set

6th Set

Group 26: Setup Barcode Insertion

Start Configuration

End Configuration

Save Parameters

B. Symbologies Selection

UPCA

UPCE

EAN-13/JAN-13/ISBN-13

EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/N97

Interleave 25

Industrial 25

Matrix 25

Group 26: Setup Barcode Insertion

Start Configuration

End Configuration

Save Parameters

CODE 93

CODE 11

China Postage

MSI/PLESSEY

Telepen

Code 2 of 6

GS1 DataBar Omnidirectional

LCD25

GS1 DataBar Expanded

GS1 DataBar Limited

Group 26: Setup Barcode Insertion

Start Configuration

End Configuration

Save Parameters

None

All Codes

C. Character Position to be Inserted

Please scan the number (refer to Appendix A) to set the character position to be inserted.

Character Insertion Position Inserted

D. Number of Characters to be Inserted

Please scan the number (refer to Appendix A) to set the number of characters to be inserted.

Number of Characters Insertion Completed

Appendix

Appendix A. Decimal Value Table

0

1

2

3

4

5

6

7

8

9

Appendix B. ASCII Table


NULL


SOH


STX


ETX


EOT


ENQ


ACK


BEL


BS


HT


LF


VT


FF


CR


SO


SI


DLE


DC1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DC3


DC4

NAK

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DEL

Appendix C. Function Code for PC XT/AT

F1

F2

F3

F4

F5

F6

F7

F8

F9

F10

F11

F12

Insert

Delete

Home

End

Page Up

Page Down

Left

Right

Up

Down

Appendix D. Decimal Value Table II

0

1

2

3

4

5

6

7

8

9

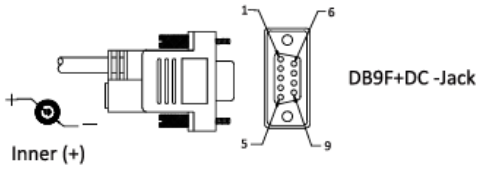
[ENTER]

Appendix E. Pin Assignment

RS-232 Signal Output

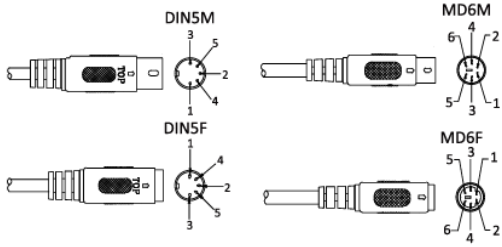
Function	DB9F+DC (or without DC)
TXD	2
RXD	3
GND	5
CTS	7
RTS	8
VCC+5V	9

Note: For PC applications, a cable with DC power jack is required to accept external power input.



Keyboard Signal Output

Function	Din 5M	Din5F	Mini-Din6M	Mini-Din6F
PC_CLK	1	---	5	---
PC_DATA	2	---	1	---
KB_CLK	---	1	---	5
KB_DATA	---	2	---	1
GND	4	4	3	3
VCC+5V	5	5	4	4



USB Signal Output

FUNCTION	USB-A
VCC	1
D-	2
D+	3
GND	4