

# BAR CODE

PROGRAMMING MENU



REV : 2. 1

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# **Chapter 1 Description**

## **1.1 Notice**

The manufacturer shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages in connection with the furnishing, performance, or use of this publication.

### **FCC Approval**



This device had been tested in accordance with the procedures given in ANSI C63.4 (1992) and confirmed to comply with the limits for a CLASS B digital pursuant to part 15 of the FCC Rules.

### **CE Standards**



The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 89/336/EEC and confirmed to comply with the European Standard EN55022:1994/ A1: 1995 Class B, EN 55024/1998.

## **1.2 Introduction**

The Decoder is an advanced and versatile decoding facility for barcoding systems .It works with variety of bar code types, reading devices, and computer interfaces. It discriminates about twenty different symbologies automatically.

This menu provide an easy way to config the decoding options and interface selections by scanning bar codes listed in the menu.

## **1.3 Codes Read**

Codes Read

ALL UPC/EAN/JAN , Code 39, Code 39 Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, CODABAR/NW7, Code 11, MSI/PLESSEY, Code 93, China Postage, Code32/Italian Pharmacy Others available upon request.

## **1.4 Installation**

**Unpacking –**

Remove the scanner from its packing and check it for damage. If the scanner was defected in transit, please contact your vendor immediately. Be sure that you keep the packing with all accessories contains in the package for your returning of service.

**Connecting the scanner –**

Keyboard wedge/RS-232C/USB:

Connect the 10-pins RS-45 male connector into the bottom of the scanner and you will hear a “click” when the connection is made.

## **Power supply for RS-232C scanner–**

There are 3 ways to supplying the power, use external +5V power supply, use optional power cable (KBDC) which taking the power from KB wedge or if the host supports +5V power from pin 9.

## **Installing the scanner to the Host System –**

1. Turn off the host system.
2. Connect the power if needed.
3. Connect to the proper port on the host system.
4. Turn on the host system.

## **Switching cable –**

Before removing the cable from the scanner, it is recommended that the power on the host system is off and the power supply has been disconnected from unit.

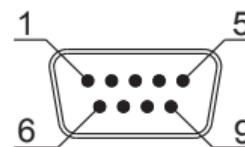
1. Find the small “Pin-hole” on the bottom of the unit.
2. Use a bended regular paperclip and insert the tip into the hole.
3. You will head a “click”, then gentle on the strain-relief of the cable and it will slide out of the scanner

## 1.5 Pin Assignment

### A> Input Port for Mini Decoder

#### DB 9 Male

Pin No.	Wand / Slot Reader	CCD / Laser Scanner
1	N.C.	S.O.S.
2	DATA	DATA
3	N.C.	N.C.
4	N.C.	N.C.
5	N.C.	TRIGGER
6	N.C.	P. E.
7	GND	GND
8	SHIELD	SHIELD
9	+5V	+5V

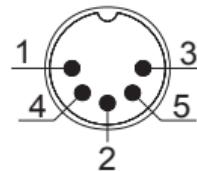


### B> Output Port

#### 1. PC Keyboard Output

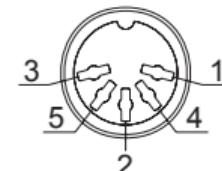
##### DIN 5 MALE

Pin No.	Function
1	HOST CLK
2	HOSTDATA
4	GND
5	Vcc(+5V)



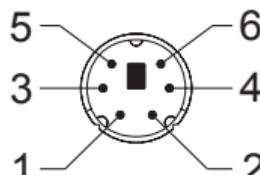
##### DIN 5 FEMALE

Pin No.	Function
1	KB CLK
2	KBDATA
4	GND
5	Vcc(+5V)



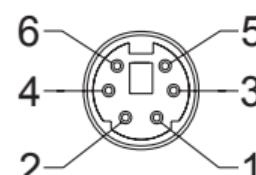
##### MiniDIN 6 MALE

Pin No.	Function
1	HOSTDATA
3	GND
4	Vcc
5	HOST CLK



##### MiniDIN 6 FEMALE

Pin No.	Function
1	KBDATA
3	GND
4	Vcc
5	KB CLK

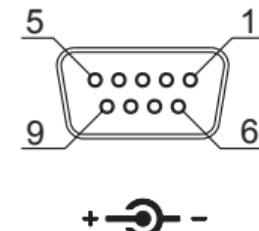


## 2. RS-232 Output

### DB 9 Female

Pin No. Function

2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)

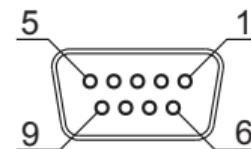


## 3. WAND Emulation Output

### DB 9 Female

Pin No. Function

2	DATA
7	GND
9	Vcc (+5V)

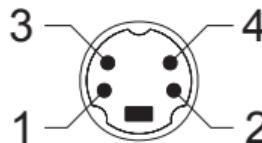


## 4. ADB Interface

### MiniDIN 4 MALE

Pin No. Function

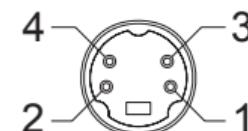
1	ADB
3	Vcc
4	GND



### MiniDIN 4 FEMALE

Pin No. Function

1	ADB
3	Vcc
4	GND

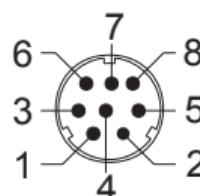


## 5. NEC 9801 Interface

### MiniDIN 8 MALE

Pin No. Function

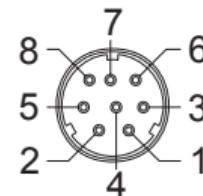
1	RST
2	GND
3	HOST RDY
4	HOST DATA
5	RTY
8	+5V
6	
7	



### MiniDIN 8 FEMALE

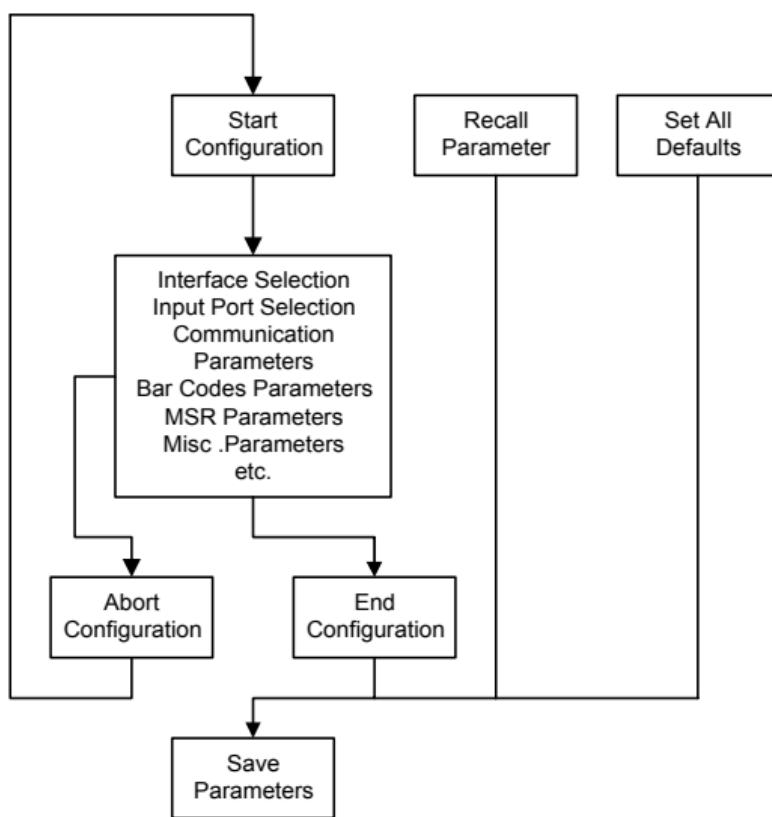
Pin No. Function

1	RST
2	GND
3	KB RDY
4	KB DATA
5	RTY
8	+5V
7	
6	



# Chapter 2 Configuration - General

## 2.1 Flow Chart



## 2.2 Loop of Programming

The philosophy of programming parameters has been shown on the flow chart of 2.1. Basically user should

1. Scan Start of Configuration.
2. Scan all necessary labels for parameters that meet applications.
3. Scan End of Configuration to end the programming.
4. To permanently save the settings you programmed, just scan label for Save Parameters.
5. To go back to the Default Settings, just scan label for Set All Defaults.

## 2.3 Factory Default Settings

The factory default settings are shown with < > and bold in the following sections. You can make your own settings by following the procedures in this manual. If you want to save the settings permanently, you should scan the label of "Save Parameters" in chapter 2.4, otherwise the settings will not be saved after the decoder power is off, and all settings will go back to previous settings.

By scanning "Set All Default" label, the settings will go back to the factory default settings.

## 2.4 Main Page of Configuration

**Save Parameters**



**Recall Stored Parameters**



**Set All Defaults**



**Start Configuration**



**End Configuration**



**Abort Configuration**



**Version Information**



**Save Parameters -**

The parameter settings will be saved permanently.

**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.

**Abort Configuration -**

Terminate current programming status.

**Version Information -**

Display the decoder version information and date code.

# Chapter 3 Interface and Reading Mode Selection

## 3.1 Interface Selection

<Keyboard Mode>



%00U0

RS232 Mode

WAND Emulation



%00M2

OCIA Mode

USB Mode



%0X08

%00M4

## 3.2 Memory Function

<Enable>



%0XI2

Disable



%0XI0

### 3.3 Reading Mode Selection

<Good Read OFF>



%0271

Trigger ON/OFF

Continuous/Trigger OFF



%0272

Testing

Continuous/Auto Power On



%0273

Flash

Flash/Auto Power On



%0276

Reserved1

Reserved2



%09F8

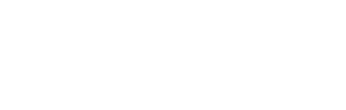
Reserved3

Reserved4



%09FA

Reserved5



%09FB

## Ch.4 Communication Parameters

### 4.1 RS232 Mode Parameters

#### A> Set Up BAUD Rate

600



%0Y70

1200



%0Y71

2400



%0Y72

4800



%0Y73

<9600>



%0Y77

19200



%0Y74

38400



%0Y75

#### B> Set Up Data Bits

7 Data Bits



%0Y80

<8 Data Bits>



%0Y88

#### C> Set Up Stop Bits

<1 Bit>



%0Y08

2 Bits



%0Y00

## D> Set Up Parity

<None>



%0 YN7

Even

Odd



%0 YN3

Mark

Space



%0 YN0

%0 YN1

## E> Handshaking

RTS/CTS Enable



%0 188

<RTS/CTS Disable>

ACK/NAK Enable



%0 144

<ACK/NAK Disable>

XON/XOFF Enable



%0 3K4

<XON/XOFF Disable>



%0 3K0

## 4.2 Keyboard Wedge Mode Parameters

### A> Terminal Type

<IBM PC/AT, PS/2>



%0ZF0

IBM PC/XT

IBM PS/2 25, 30



%0ZF1

IBM PS/2 25, 30

Apple Desktop Bus(ADB)



%0ZF2

NEC 9800

IBM 122 Key (1)



%0ZF3

IBM 122 Key (1)

IBM 122 Key (2)



%0ZF4

IBM 122 Key (2)

Reserved 2



%0ZF5

Reserved 2

Reserved 3



%0ZF6

Reserved 3

Reserved 4



%0ZF7

Reserved 4



%0ZF8

Reserved 5



%0ZF9

Reserved 6

## **B> Upper/Lower Case**

**<No Change>**



%0330

Upper Case



%0331

Lower Case



%0332

## **C> Send Character by ALT Method**

Enable



%0308

**<Disable>**



%0300

## **D> Select Numerical Pad**

ON



%01K4

**<OFF>**



%01K0

## 4.3 Output Characters Parameters

### A> Select Terminator

<CR+LF>



%7 S2 +

None



%7 S7 +

CR



%7 S0 +

LF



%7 S1 +

Space



%7 S4 +

HT(TAB)



%7 S3 +

STX-ETX



%7 S5 +

## B> Time-out Between Characters

<0 ms>



%0070

5 ms



%0071

10 ms



%0072

25 ms



%0073

50 ms



%0074

100 ms



%0075

200 ms



%0076

300 ms



%0077

## 4.4 Wand Emulation Mode Parameters

### A> TTL Level Representation

<Bar Equals High>



%02K4

Bar Equals Low



%02K0

### B> Scan Speed Selection

<Fast>



%0288

Slow



%0280

### C> Output Format Selection

<Output as Code 39>



%0208

Output as Code 39  
Full ASCII



%0200

Output as Original  
Code Format



%0XK4

## 4.5 OCIA Mode Parameters

<NCR 8 Bit Format>



%02J0

NCR 9 Bit Format



%02J1

Spectra-Physics



%02J2

Nixdorf



%02J3

# Ch.5 Bar Codes & Others

## 5.1 Symbologies Selection

UPC-A <ON>



%0A44

OFF

UPC-E <ON>



%0B08

OFF

EAN-13/JAN-13 <ON>



%0A22

OFF

EAN-8/JAN-8 <ON>



%0A11

OFF

CODE 39 <ON>



%0E08

OFF

CODE 128 <ON>



%0F08

OFF

CODABAR/NW7 <ON>



%0J08

OFF



%0J00

Interleave 25 <ON>



%0 GO8

OFF

Industrial 25 ON



%0 HO8

<OFF>

Matrix 25 ON



%0 I O8

<OFF>

CODE 93 ON



%0 KO8

<OFF>

CODE 11 ON



%0 L O8

<OFF>

China Postage ON



%0 MO8

<OFF>

MSI/PLESSEY ON



%0 NO8

<OFF>



%0 NOO

BC412 ON



%0008

<OFF>

Code 2 of 6 ON



%0P08

<OFF>

Telepen ON



%0T08

<OFF>

Reserved4 ON



%0Q08

<OFF>

Reserved5 ON



%0R08

<OFF>

Reserved6 ON



%0S08

<OFF>

Select All Bar Codes



%1A/ +

## 5.2 UPC/EAN/JAN Parameters

### A> Reading Type

UPCA=EAN13 ON



%0AK4

**UPCA=EAN13<OFF>**

ISBN Enable



%0B88

**ISBN <Disable>**

ISSN Enable



%0B44

**ISSN <Disable>**

Decode with Supplement



%0100

**<Autodiscriminate Supplement>**



%0108

### B> Supplements Set Up

**<Not Transmit>**



%0B33

**Transmit 2 Code**



%0B31

Transmit 5 Code



%0B32

**Transmit 2&5 Code**



%0B30

## C> Check Digit Transmission

UPC-A Check Digit  
Transmission <ON>



%0AI 2

OFF

UPC-E Check Digit  
Transmission <ON>



%0BI 2

OFF

EAN-8 Check Digit  
Transmission <ON>



%0A88

OFF

EAN-13 Check Digit  
Transmission <ON>



%0AH1

OFF

ISSN Check Digit  
Transmission <ON>



%0 BK4

OFF



%0 AH0



%0 BK0

## 5.3 Code 39 Parameters

### A> Type of Code

<Standard>



%0 EH1

Full ASCII



%0 EH0

Italian Pharmacy/Code 32

<OFF>



%0 E80

Italian Pharmacy/  
Code 32 ON



%0 E88

### B> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 EM2

Calculate Check Digit  
& Transmit



%0 EM6

Calculate Check Digit  
& Not Transmit



%0 EM4

### C> Output Start/Stop Character

Enable



%0 E44

<Disable>



%0 E40

## D> Decode Asterisk

Enable



%0E22

<Disable>



%0E20

## E> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.  
Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4E1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4E00

2. Decimal Value  
(Appendix A)



%4E01

1. 2nd Set Begin



%4E00

2. Decimal Value  
(Appendix A)



%4E02

Minimum Length

1. Begin



%2+-/

2. Decimal Value  
(Appendix A)



%2C0+

## 5.4 Code 128 Parameters

### A> Check Digit Transmission

Do Not Calculate  
Check Digit



%0 FN1

Calculate Check  
Digit & Transmit



%0 FN7

<Calculate Check Digit  
& Not Transmit>



%0 FN5

### B> Append FNC2

ON



%0 F88

<OFF>



%0 F80

### C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 F 1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 F 0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 F 0 1

1. 2nd Set Begin



%4 F 0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 F 0 2

**Minimum Length**

1. Begin



%2 + - /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C 1 +

## 5.5 Interleave 25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 GN3

Calculate Check Digit  
& Transmit



%0 GN7

Calculate Check Digit  
& Not Transmit



%0 GN5

### B> Set Up Number of Character

<Even>



%0 G88

Odd



%0 G80

### C> Brazilian Banking Code

<Disable>



%0 G40

Enable



%0 G44

## D> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

### <Variable>



%4 G1 +

#### Fix Length (2 Sets Available)

1. 1st Set Begin



%4 G0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 G0 1

1. 2nd Set Begin



%4 G0 0

2. Decimal Value  
(Appendix A)



%4 G0 2

#### Minimum Length

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C2 +

## 5.6 Industrial 25 Parameters

### A> Check Digit Transmission

**<Do Not Calculate  
Check Digit>**



%0 HN3

Calculate Check Digit  
& Transmit



%0 HN7

Calculate Check Digit  
& Not Transmit



%0 HN5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 H1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 H0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 H0 1

1. 2nd Set Begin



%4 H0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 H0 2

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C3 +

## 5.7 Matrix 25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%01 N3

Calculate Check Digit  
& Transmit



%01 N7

Calculate Check Digit  
& Not Transmit



%01 N5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%41 1+

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%41 00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%41 01

1. 2nd Set Begin



%41 00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%41 02

**Minimum Length**

1. Begin



%2+- /

2. Decimal Value  
(Appendix A)

3. Complete



%2C4+

## 5.8 CODABAR/NW7 Parameters

### A> Set Up Start/Stop Characters Upon Transmission

ON



%0JH1

<OFF>



%0JH0

### B> Transmission Type of Start/Stop

<A/B/C/D> <Start>



%04VF

<A/B/C/D> <Stop>



%04FF

A Start



%04V1

A Stop



%04F1

B Start



%04V2

B Stop



%04F2

C Start



%04V4

C Stop



%04F4

D Start



%04V8

D Stop



%04F8

## C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

### <Variable>



%4J1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4J00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4J01

1. 2nd Set Begin



%4J00

2. Decimal Value  
(Appendix A)



%4J02

Minimum Length

1. Begin



%2+-/

2. Decimal Value  
(Appendix A)

3. Complete



%2C5+

## 5.9 Code 93 Parameters

### A> Check Digit Transmission

<Calculate Check 2 Digits  
& Not Transmit>



%0KN4

Do Not Calculate  
Check Digit



%0KN3

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4K1+

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4K00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4K01

1. 2nd Set Begin



%4K00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4K02

**Minimum Length**

1. Begin



%2+- /

2. Decimal Value  
(Appendix A)

3. Complete



%2C6+

## 5.10 Code 11 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0LN3

Calculate Check 1  
Digit & Transmit

Calculate Check 1 Digit  
& Not Transmit



%0LN5

Calculate Check 2  
Digits & Transmit

Calculate Check 2 Digits  
& Not Transmit



%0LN6



### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 L 1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 L 0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 L 0 1

1. 2nd Set Begin



%4 L 0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 L 0 2

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C7 +

## 5.11 MSI/PLESSEY Code Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 NN3

Calculate Check Digit  
& Transmit



%0 NN7

Calculate Check Digit  
& Not Transmit



%0 NN5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 N1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 N0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 N0 1

1. 2nd Set Begin



%4 N0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 N0 2

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C9 +

## **5.12 BC 412 Code Parameters**

### **A> Check Digit Transmission**

Do Not Calculate  
Check Digit



%0 ON3

**<Calculate Check  
Digit & Transmit>**



%0 ON7

Calculate Check Digit  
& Not Transmit



%0 ON5

### **B> Set Up Code Length**

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 O1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 O0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 O0 1

1. 2nd Set Begin



%4 O0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 O0 2

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 CA+

## **5.13 Code 2 of 6 Parameters**

### **A> Check Digit Transmission**

Do Not Calculate  
Check Digit



%0 PN3

**<Calculate Check  
Digit & Transmit>**



%0 PN7

Calculate Check Digit  
& Not Transmit



%0 PN5

### **B> Set Up Code Length**

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 P1+

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 P00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 P01

1. 2nd Set Begin



%4 P00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 P02

**Minimum Length**

1. Begin



%2+- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 CB+

## 5.14 Telepen Parameters

### A> Type of Code

<Telepen ASCII>



%0T80

Telepen Numeric



%0T88

### B> Check Digit Transmission

Do Not Calculate  
Check Digit



%0TN3

Calculate Check  
Digit & Transmit



%0TN7

<Calculate Check Digit  
& Not Transmit>



%0TN5

### C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 T1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4 T00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 T01

1. 2nd Set Begin



%4 T00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 T02

Minimum Length

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 CF+

## Ch.6 Miscellaneous Parameters

### 6.1 Language Selection

<US English>



%0ZV0

UK English



%0ZV1

Italian



%0ZV2

Spanish



%0ZV3

French



%0ZV4

German



%0ZV5

Swedish



%0ZV6

Switzerland



%0ZV7

Hungarian



%0ZV8

Japanese



%0ZV9

Belgium



%0ZVA

Portuguese



%0ZVB

Denmark



%0ZVC

Netherlands



%0ZVD

Turkey



%0ZVE

Reserved1



%0ZVF

## 6.2 Bar Code ID

ON



%00H1

<OFF>



%00H0

Default



%913+

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 matching code ID of codes read in.

Code Type	ID	Code Type	ID
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
CODE 39	E	CODE 128	F
Interleave 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Postage	M	MSI/PLESSEY	N
BC412	O	Code 2 of 6	P
Telepen	T		

### User Define Code ID

To set the code ID:

1. Scan the symbologies label.
2. Go to the ASCII Tables in Appendix B, scan label that represents the desired code ID.

#### Note:

**User define code ID will override default value.**  
**Program will not check the conflict. It is possible to have more than two symbologies which have same code ID.**

**UPC-A**



%91A+

**EAN-13/JAN-13**



%91Y+

**CODE 39**



%91E+

**CODABAR/NW7**



%91J+

**Industrial 25**



%91H+

**CODE 93**



%91K+

**China Postage**



%91M+

**BC412**



%91O+

**UPC-E**



%91B+

**EAN-8/JAN-8**



%91Z+

**CODE 128**



%91F+

**Interleave 25**



%91G+

**Matrix 25**



%91I+

**CODE 11**



%91L+

**MSI/PLESSEY**



%91N+

Code 2 of 6



%91P+

Telepen



%91T+

Reserved4



%91Q+

Reserved5



%91R+

Reserved6



%91S+

## 6.3 Reading Level

Bar Equals High



%031 2

<Bar Equals Low>



%031 0

## 6.4 Accuracy

<1 Time>



%013 0

2 Times



%013 1

3 Times



%013 2

4 Times



%013 3

## 6.5 Buzzer Beep Tone

<High>



%01J 3

Medium



%01J 2

Low



%01J 1

Off



%01J 0

## 6.6 Sensitivity of Continuous Reading Mode

<Fast>



%0388

Slow



%0380

## 6.7 Notebook Function

Enable



%0344

<Disable>



%0340

## 6.8 Reverse Output Characters

<Disable>



%03H0

Enable



%03H1

## 6.9 Setup Deletion

To setup the deletion of output characters:

1. Scan the label of the desired set below.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be deleted.
4. Scan the "Complete" label of "Character Position to be Deleted".
5. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the number of characters to be deleted.
6. Scan the "Complete" label of "Number of Characters to be Deleted".

Repeat the steps 1 - 6 to set additional deletion.

### A> Select Deletion Set Number

#### 1. 1st Set



%800+

#### 2. 2nd Set



%801+

#### 3. 3rd Set



%802+

#### 4. 4th Set



%803+

#### 5. 5th Set



%804+

#### 6. 6th Set



%805+

## B> Symbologies Selection

UPC-A



%8 1 A+

EAN-13/JAN-13



%8 1 Y+

CODE 39



%8 1 E+

CODABAR/NW7



%8 1 J+

Industrial 25



%8 1 H+

CODE 93



%8 1 K+

China Postage



%8 1 M+

UPC-E



%8 1 B+

EAN-8/JAN-8



%8 1 Z+

CODE 128



%8 1 F+

Interleave 25



%8 1 G+

Matrix 25



%8 1 I+

CODE 11



%8 1 L+

MSI/PLESSEY



%8 1 N+

BC412



%81O+

Code 2 of 6

Telepen



%81T+

Resvered4

Resvered5



%81R+



%81Q+

All Codes



%81S+

None



%814+

### C> Character Position to be Deleted

1. Decimal Value  
(Appendix A)

2. Complete



%820+

### D> Number of Characters to be Deleted

1. Decimal Value  
(Appendix A)

2. Complete



%830+

## **6.10 Setup Insertion**

To setup the insertion of output characters:

1. Scan the label of the desired set.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be inserted.
4. Scan the "Complete" label of "Character Position to be Inserted".
5. Go to the ASCII Tables in Appendix B or Function Key Tables in Appendix C, scan label(s) that represents the desired characters to be inserted.
6. Scan the "Complete" label of "Characters to be Inserted".

Repeat the steps 1 - 6 to set additional insertion.

### **A> Select Insertion Set Number**

1. 1st Set



2. 2nd Set



3. 3rd Set



4. 4th Set



5. 5th Set



6. 6th Set



## B> Symbolologies Selection

UPC-A



%51A+

EAN-13/JAN-13



%51Y+

CODE 39



%51E+

CODABAR/NW7



%51J+

Industrial 25



%51H+

CODE 93



%51K+

China Postage



%51M+

UPC-E



%51B+

EAN-8/JAN-8



%51Z+

CODE 128



%51F+

Interleave 25



%51G+

Matrix 25



%51+

CODE 11



%51L+

MSI/PLESSEY



%51N+

BC412



%51O+

Code 2 of 6

Telepen



%51T+

Resvered4

Resvered5



%51R+



%51Q+

All Codes



%51S+

None



%514+

## C> Character Position to be Inserted

1. Decimal Value  
(Appendix A)

2. Complete



%520+

## D> Characters to be Inserted

1. ASCII Table  
(Appendix B)

2. Complete



%530+

## 6.11 Setup IR Sensor

<Disable>



%0XH0

Enable



%0XH1

## **Appendix A Decimal Value Table**

0



1



2



3



4



5



6



7



8



9



## Appendix B ASCII Table

NULL



ETX



ACK



HT



FF



SI



DC2



NAK



CAN



ESC



RS



STX



ENQ



BS



VT



SO



DC1



DC4



ETB



SUB



GS



1D



SOH



EOT



BEL



LF



CR



DLE



DC3



SYN



EM



FS



US



SPACE



20

!



21

#



23

\$



24

&



26

,



27

)



29

\*



2A

,



2C

,



2D

/



2F

0



30

2



32

1



31

3



33

4



34

5



35

6



36

7



37

8



39

;



38

:



39

=



3B

<



3C

>



3E

?



3F

@		40	A		41
C		42	D		44
F		45	G		47
I		48	J		4A
L		4B	M		4D
O		4E	P		50
R		51	S		53
U		54	V		56
X		57	Y		59
[		5A	\		5C
^		5D	-		5E
]					



a  
61



c  
63



f  
66



i  
69



l  
6C



o  
6F



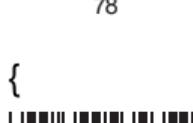
r  
72



u  
75



x  
78



{  
7B



~  
7E



b  
62



e  
65



h  
68



k  
6B



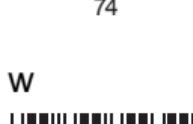
n  
6E



q  
71



t  
74



w  
77



z  
7A



}  
7D



d  
64



g  
67



j  
6A



m  
6D



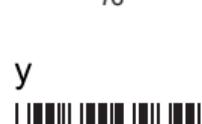
p  
70



s  
73



v  
76



y  
79



|  
7C



DEL  
7F

## Appendix C Function Key Table

F1



F2



F4



F3



F5



F7



F6



F8



F10



F9



F11



Insert



Delete



Page Up



Page Down



Left



End



Right



Up



Down



**Save Parameters**



**Recall Stored  
Parameters**



**Set All Defaults**



**Start Configuration**



**End Configuration**



**Abort Configuration**



**Version Information**

