

# BAR CODE



## **Programming Menu**

V3.8 c

### **Notice**

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## Chapter 1 Description

### 1.1 General

Thank you for purchasing this barcode scanner with an advanced and versatile decoder. The decoder works with variety of barcode types, reading devices, and computer interfaces. It discriminates over twenty different symbologies automatically.

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

#### FCC Approval

This device had been tested in accordance with the procedures and in compliance with Part 15 Subpart B of FCC Rules. And keeps all requirements according ANSI C63.4 & FCC Part 15 B Regulation and CISPR22 Class B.

#### CE Standards

The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 2004/108/EC and confirmed to comply with the Europe Standard EN55022:2006:Class B, EN 55024:1998+A1:2001+A2:2003, IEC61000-3-2:2006, IEC61000-3-3:1995+A1:2005, IEC61000-4-2:2001, IEC61000-4-3:2006, IEC61000-4-4:2004, IEC61000-4-5:2006, IEC61000-4-6:2001, IEC61000-4-8:2001, IEC61000-4-11:2004.

#### LEGISLATION AND WEEE SYMBOL

This marking shown on the product or its literature, indicates that it should not be disposed with other households wastes at the end of its working life. To prevent possible harm to the environment or human healthy from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable re-use of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase.

## 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.

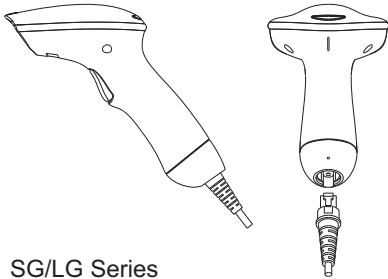
### Installing the scanner to the Host System -

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.

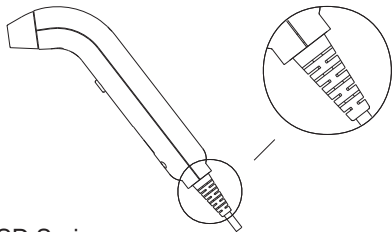
### Switching cable -

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.



SG/LG Series



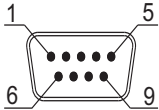
SD Series

## 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

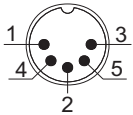


### B> Output Port

#### 1. PC Keyboard Output

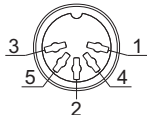
##### DIN 5 MALE

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



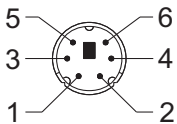
##### DIN 5 FEMALE

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



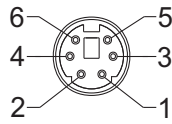
##### MiniDIN 6 MALE

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



##### MiniDIN 6 FEMALE

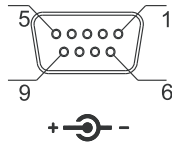
Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK



**2. RS-232 Output**

**DB 9 Female**

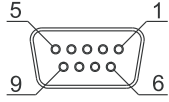
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)



**3. WAND Emulation Output**

**DB 9 Female**

Pin No.	Function
2	DATA
7	GND
9	Vcc (+5V)



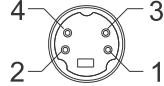
**4. ADB Interface**

**MiniDIN 4 MALE**

Pin No.	Function
1	ADB
3	Vcc
4	GND

**MiniDIN 4 FEMALE**

Pin No.	Function
1	ADB
3	Vcc
4	GND



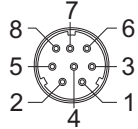
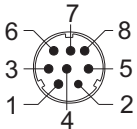
**5. NEC 9801 Interface**

**MiniDIN 8 MALE**

Pin No.	Function
1	RST
2	GND
3	HOST RDY
4	HOST DATA
5	RTY
8	+5V

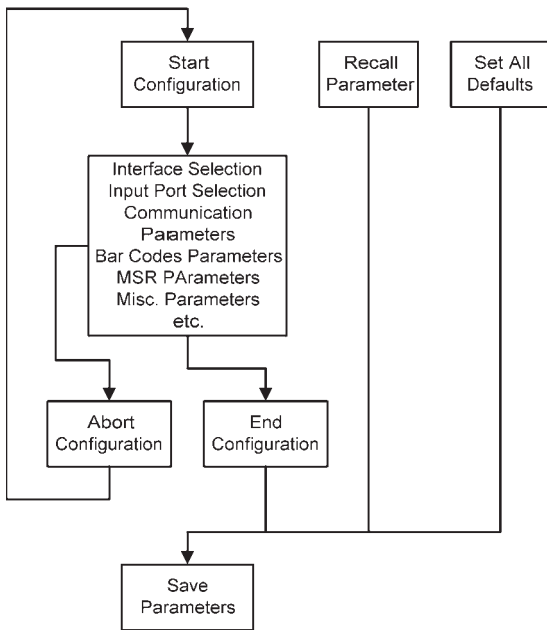
**MiniDIN 8 FEMALE**

Pin No.	Function
1	RST
3	GND
4	KB RDY
5	KB DATA
4	RTY
5	+5V



## 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>



RS232 Mode



WAND Emulation



USB Mode



## 3.2 Memory Function<HC102M Only>

### <Enable>



Disable



### 3.3 Reading Mode Selection

<Good Read OFF>



%0271

Trigger ON/OFF



%0270

Continuous/Trigger OFF



%0272

Testing



%0275

Continuous/Auto Power On



%0273

Flash



%0274

Flash/Auto Power On



%0276

Reserved1



%0277

Auto Sense(Optional)



%09F8

Reserved3



%09F9

Reserved4



%09FA

Reserved5



%09FB

## Ch.4 Communication Parameters

### 4.1 RS232 Communication Parameters

#### A> Set Up BAUD Rate

	1200	
2400		
	4800	
<b>&lt;9600&gt;</b>		
	19200	
38400		

#### B> Set Up Data Bits

7 Data Bits

	<b>&lt;8 Data Bits&gt;</b>
	

#### C> Set Up Stop Bits

**<1 Bit>**

	2 Bits
	

## D> Set Up Parity

**<None>**



Even



Odd



Mark



Space



## E> Handshaking

RTS/CTS Enable



**<RTS/CTS Disable>**



ACK/NAK Enable



**<ACK/NAK Disable>**



XON/XOFF Enable



**<XON/XOFF Disable>**



## 4.2 Keyboard Wedge Mode 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)



Reserved 1



Reserved 2



Reserved 3



Reserved 4



Reserved 5



## B> Upper/Lower Case

<No Change>



Upper Case



Lower Case



## C> Capslock Detection

Enable



<Disable>



## D> Send Character by ALT Method

Enable



<Disable>



E>Select Numerical Pad

ON



<OFF>



### 4.3 Output Characters Parameters

#### A> Select Terminator

<CR+LF>



None



CR



LF



Space



HT(TAB)



STX-ETX



## B> Time-out Between Characters

<0 ms>



5 ms



10 ms



25 ms



50 ms



100 ms



200 ms



300 ms



## 4.4 Wand Emulation Mode Parameters

### A> TTL Level Representation

<Bar Equals High>



Bar Equals Low



### B> Scan Speed Selection

<Fast>



Slow



### C> Output Format Selection

<Output as Code 39>



Output as Code 39  
Full ASCII



Output as Original  
Code Format



## Ch.5 Bar Codes & Others

### 5.1 Symbologies Selection

UPC-A <ON>



OFF



UPC-E <ON>



OFF



EAN-13/JAN-13/ISBN-13  
<ON>



OFF



EAN-8/JAN-8 <ON>



OFF



CODE 39 <ON>



OFF



CODE 128 <ON>



OFF



CODABAR/NW7 <ON>



OFF



Interleave 25 <ON>



OFF



Industrial 25 ON



<OFF>



Matrix 25 ON



<OFF>



CODE 93 ON



<OFF>



CODE 11 ON



<OFF>



China Postage ON



<OFF>



MSI/PLESSEY ON



<OFF>



Code 2 of 6ON



%0PO8

<OFF>



%0PO0

LCD25 ON



%0Q08

<OFF>



%0Q00

Telepen ON



%0T08

<OFF>



%0T00

Reserved5 ON



%0R08

<OFF>



%0R00

Reserved6 ON



%0S08

<OFF>



%0S00

GS1 DataBar Omnidirectional ON



<OFF>

GS1 DataBar Limited ON



<OFF>

GS1 DataBar Expanded ON



<OFF>

Select All Bar Codes



## 5.2 UPC/EAN/JAN Parameters

### A> Reading Type

UPCA=EAN13 ON



UPCA=EAN13<OFF>



ISBN-10 Enable



ISBN-13 <Enable>



ISSN Enable



ISSN <Disable>



Decode with Supplement



<Autodiscriminate  
Supplement>



Expand UPC-E  
Enable



Expand UPC-E  
<Disable>



EAN8=EAN13  
Enable



EAN8=EAN13  
<Disable>



GTIN Format  
Enable



GTIN Format  
<Disable>



## B> Supplementals 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>

 %0A1 2	OFF	 %0A1 0
--	-----	---

UPC-E Check Digit  
Transmission <ON>

 %0B1 2	OFF	 %0B1 0
--	-----	---

EAN-8 Check Digit  
Transmission <ON>

 %0A8 8	OFF	 %0A8 0
--	-----	--

EAN-13 Check Digit  
Transmission <ON>

 %0AH 1	OFF	 %0AH 0
--	-----	---

ISSN Check Digit  
Transmission <ON>

 %0BK 4	OFF	 %0BK 0
--	-----	---

## 5.3 Code 39 Parameters

### A> Type of Code

**<Standard>**



%0EH1

Full ASCII



%0EH0

Italian Pharmacy/Code 32

**<OFF>**



%0E80

Italian Pharmacy/  
Code 32 ON



%0E88

### B> Check Digit Transmission

**<Do Not Calculate  
Check Digit>**



%0EM2

Calculate Check Digit  
& Transmit



%0EM6

Calculate Check Digit  
& Not Transmit



%0EM4

### C> Output Start/Stop Character

Enable



%0E44

**<Disable>**



%0E40

## D> Decode Asterisk

Enable



<Disable>



## 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>



Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value (Appendix A)



3. 1st Set Complete



1. 2nd Set Begin
2. Decimal Value (Appendix A)



3. 2nd Set Complete



Minimum Length

1. Begin
2. Decimal Value (Appendix A)



3. Complete



## 5.4 Code 128 Parameters

### A> Reading Type

UCC/EAN-128  
Enable



<UCC/EAN-128  
Disable>



<Enable]C1'Code  
Format>



Disable]C1'Code  
Format



<Enable Code128 Group  
Separators (GS)>



Disable Code128  
Group Separators  
(GS)



### B> Check Digit Transmission

Do Not Calculate  
Check Digit



Calculate Check  
Digit & Transmit



<Calculate Check Digit  
& Not Transmit>



### C> Append FNC2

ON



<OFF>



## 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>



#### Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value (Appendix A)



3. 1st Set Complete



1. 2nd Set Begin
2. Decimal Value (Appendix A)



3. 2nd Set Complete



#### Minimum Length

1. Begin
2. Decimal Value (Appendix A)



3. Complete



## 5.5 Interleave 25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0GN3

Calculate Check Digit  
& Transmit



%0GN7

Calculate Check Digit  
& Not Transmit



%0GN5

### B> Set Up Number of Character

<Even>



%0G88

Odd



%0G80

### C> Brazilian Banking Code

<Disable>



%0G40

Enable



%0G44

## 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>



### Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value (Appendix A)



3. 1st Set Complete



1. 2nd Set Begin
2. Decimal Value (Appendix A)



3. 2nd Set Complete



### Minimum Length

1. Begin
2. Decimal Value (Appendix A)



3. Complete



## 5.6 Industrial 25 Parameters

### A> Reading type

#### IATA25 Enable



%0H44

<Disable>



%0H40

### B> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0HN3

Calculate Check Digit  
& Transmit



%0HN7

Calculate Check Digit  
& Not Transmit



%0HN5

### 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>**



**Fix Length (2 Sets Available)**

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



**Minimum Length**

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.7 Matrix 25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



Calculate Check Digit  
& Transmit



Calculate Check Digit  
& Not Transmit



### 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>**



**Fix Length (2 Sets Available)**

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



**Minimum Length**

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.8 CODABAR/NW7 Parameters

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

ON



<OFF>



### 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



## 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>



#### Fix Length (2 Sets Available)

1. 1st Set Begin

2. Decimal Value  
(Appendix A)



3. 1st Set C omplete



1. 2nd Set Begin

2. Decimal Value  
(Appendix A)



3. 2nd Set Complete



#### Minimum Length

1. Begin

2. Decimal Value  
(Appendix A)



3. Complete



## 5.9 Code 93 Parameters

### A> Check Digit Transmission

#### <Calculate Check 2 Digits & Not Transmit>



Do Not Calculate  
Check Digit



### 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>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.10 Code 11 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



### 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>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.11 MSI/PLESSEY Code Parameters

### A> Check Digit Transmission

Do Not Calculate  
Check Digit



Calculate Check Digit  
& Transmit



<Calculate Check Digit  
& Not Transmit>



### 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>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.12 Code 2 of 6 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



**Calculate Check  
Digit & Transmit>**



Calculate Check Digit  
& Not Transmit



### 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>



%4P1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4P00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4P01

1. 2nd Set Begin



%4P00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4P02

Minimum Length

1. Begin



%2+-

2. Decimal Value  
(Appendix A)

3. Complete



%2CB+

## 5.13 LCD25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



Calculate Check Digit  
& Transmit



Calculate Check  
Digit & Not Transmit



### B> Setup 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>



Fix Length (2 Sets Available)

1. 1st Set Begin

2. Decimal Value  
(Appendix A)



3. 1st Set Complete



1. 2st Set Begin

2. Decimal Value  
(Appendix A)



3. 2nd Set Complete



Minimum Length

1. Begin

2. Decimal Value  
(Appendix A)



3. Complete



## 5.14 Telepen Parameters

### A> Type of Code

#### <Full ASCII Mode>



Compressed Numeric  
Mode



### B> Check Digit Transmission

Do Not Calculate  
Check Digit



Calculate Check  
Digit & Transmit



<Calculate Check Digit  
& Not Transmit>



### 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>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.15 GS1 Databar

### A> GS1 DataBar Omnidirectional

<Transmit Check  
Digit>



Don't Transmit  
Check Digit



<Transmit  
Application ID>



Don't Transmit  
Application ID

Transmit Symbology ID



<Don't Transmit  
Symbology ID>



### 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>



## 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



Portuguese



Denmark



Netherlands



Turkey



Reserved2



## 6.2 Bar Code ID

ON



<OFF>



Default



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
Code 2 of 6	P	LCD25	Q
Telepen	T	GS1 DataBar	U
GS1 DataBar Limited	V	Omnidirectional	
		GS1 DataBar Expanded	W

### 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



UPC-E



EAN-13/JAN-13



EAN-8/JAN-8



CODE 39



CODE 128



CODABAR/NW7



Interleave 25



Industrial 25



Matrix 25



CODE 93



CODE 11



China Postage



MSI/PLESSEY



Code 2 of 6



Telepen



LCD25



GS1 DataBar  
Omnidirectional ON



GS1 DataBar  
Limited ON



GS1 DataBar  
Expanded ON



Reserved5



Reserved6



### 6.3 Reading Level

Bar Equals High



<Bar Equals Low>



### 6.4 Accuracy

<1 Time>



2 Times



3 Times



4 Times



### 6.5 Buzzer Beep Tone

<High>



Medium



Low



Off



### 6.6 LED Control(SV700 only)

<ON>



OFF



## 6.7 Sensitivity of Continuous Reading Mode

### A> Quick Setting:

<Fast>



Slow



### B> Same Code Delay Reading Interval

Following code sequences represent the length of time before a barcode can be rescanned at continuous and flash reading mode. The value can be defined from 1-50 and they represent 100ms to 5 seconds in 100ms interval. Default value is 3 (0.3 seconds).

#### To setup same code delay reading interval:

1. Scan the "Begin" label
2. Go the Decimal Value Tables in Appendix A, Scan label(s), that represents the same code delay reading interval. They are ranged from 1-50. One step is represented 0.1 second. So the interval is from 0.1 to 5 seconds.
3. Scan the "Complete" label

#### Repeat the steps 1-3 to set time out of same symbol

1. Begin



2. Decimal Value  
(1-50) (Appendix A)

3. Complete



## 6.8 Notebook Function

Enable



<Disable>



## 6.9 Reverse Output Characters

<Disable>



Enable



## 6.10 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



2. 2nd Set



3. 3rd Set



4. 4th Set



5. 5th Set



6. 6th Set



## B> Symbolologies Selection

UPC-A



UPC-E



EAN-13/JAN-13/ISBN-13



EAN-8/JAN-8



CODE 39



CODE 128



CODABAR/NW7



Interleave 25



Industrial 25



Matrix 25



CODE 93



CODE 11



China Postage



MSI/PLESSEY



Code 2 of 6



Telepen



LCD25



GS1 DataBar  
Omnidirectional ON



GS1 DataBar  
Limited ON



GS1 DataBar  
Expanded ON



All Codes



None



**C> Character Position to be Deleted**

1. Decimal Value  
(Appendix A)

2. Complete



**D> Number of Characters to be Deleted**

1. Decimal Value  
(Appendix A)

2. Complete



## 6.11 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



UPC-E



EAN-13/JAN-13/ISBN-13



EAN-8/JAN-8



CODE 39



CODE 128



CODABAR/NW7



Interleave 25



Industrial 25



Matrix 25



CODE 93



CODE 11



China Postage



MSI/PLESSEY



Code 2 of 6



Telepen



LCD255



GS1 DataBar  
Omnidirectional ON



GS1 DataBar  
Limited ON



GS1 DataBar  
Expanded ON



All Codes



None



**C> Character Position to be Inserted**

1. Decimal Value  
(Appendix A)

2. Complete



**D> Characters to be Inserted**

1. ASCII Table  
(Appendix B)

2. Complete



## 6.12 Setup IR Sensor (LG303 only)

<Disable>



Enable



**Appendix A Decimal Value Table**



## Appendix B ASCII Table

NULL



00

ETX



03

ACK



06

HT



09

FF



0C

SI



0F

DC2



12

NAK



15

CAN



18

ESC



1B

RS



1E

STX



02

ENQ



05

BS



08

VT



0B

SO



0E

DC1



11

DC4



14

ETB



17

SUB



1A

GS



1D

SOH



01

EOT



04

BEL



07

LF



0A

CR



0D

DLE



10

DC3



13

SYN



16

EM



19

FS



1C

US



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SPACE



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36

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39

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3C

?



3F





## Appendix C Function Key Table

F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12



Insert



Delete



Home



Page Up



Page Down



End



Left



Right



Up



Down



All above programming are subject to change without notice.

Save Parameters



Recall Stored Parameters



Set All Defaults



Start Configuration



End Configuration



Abort Configuration



Version Information

