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>

%00 U0

RS232 Mode

%00 U8

WAND Emulation

%00 M2

USB Mode

%0 XO8

3.2 Reading Mode Selection

<Good Read OFF>

Trigger ON/OFF

Continuous/Trigger OFF

Testing

Continuous/Auto Power On

Flash

Flash/Auto Power On

Reserved1

Auto Sense(Option)

Reserved3

Reserved4

Reserved5

Ch.4 Communication Parameters

4.1 RS232 Communication Parameters

A> Set Up BAUD Rate

1200

2400

4800

<9600>

19200

38400

B> Set Up Data Bits

7 Data Bits

<8 Data Bits>

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>


%0ZF0

IBM PC/XT


%0ZF1

IBM PS/2 25, 30


%0ZF2

NEC 9800


%0ZF3

Apple Desktop Bus(ADB)


%0ZF4

IBM 5550


%0ZF5

IBM 122 Key (1)


%0ZF6

IBM 102 Key


%0ZF7

IBM 122 Key (2)


%0ZF8

Reserved 1


%0ZF9

Reserved 2


%0ZFA

Reserved 3


%0ZFB

Reserved 4


%0ZFC

Reserved 5


%0ZFD

B> Upper/Lower Case

<No Change>

Upper Case

Lower Case

C> Caps Lock 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>**

%0GO8

OFF

%0GO0

Industrial 25 ON

%0HO8

<OFF>

%0HO0

Matrix 25 ON

%0I O8

<OFF>

%0I O0

CODE 93 ON

%0KO8

<OFF>

%0KO0

CODE 11 ON

%0LO8

<OFF>

%0LO0

China Postage ON

%CMO8

<OFF>

%0MO0

MSI/PLESSEY ON

%CNO8

<OFF>

%0NO0

Code 2 of 6ON

%0PO8

<OFF>

%0POC

LCD25 ON

%0QO8

<OFF>

%0QO0

Telepen ON

%0TO8

<OFF>

%0TO0

Reserved5 ON

%0RO8

<OFF>

%0RO0

Reserved6 ON

%0SO8

<OFF>

%0SO0

GS1 DataBar Omnidirectional ON

%0UO8

<OFF>

%0UO0

GS1 DataBar Limited ON

%0VO8

<OFF>

%0VO0

GS1 DataBar Expanded ON

%0WO8

<OFF>

%0WO0

Select All Bar Codes

%1A/+

5.2 UPC/EANI/JAN Parameters

A Reading Type

UPCA=EAN13 ON

UPCA=EAN13<OFF>

ISBN-1C Enable

ISBN-13 **<Enable>**

ISSN Enable

ISSN **<Disable>**

Decode with Supplement

<Auto discriminate Supplement>

Expand UPC-E Enable

Expand UPC-E **<Disable>**

EAN8=EAN13 Enable

EAN8=EAN13 **<Disable>**

GTIN Format Enable

GTIN Format **<Disable>**

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 **<ON>**

OFF

UPC-E Check Digit Transmission **<ON>**

OFF

EAN-8 Check Digit Transmission **<ON>**

OFF

EAN-13 Check Digit Transmission **<ON>**

OFF

ISSN Check Digit Transmission **<ON>**

OFF

5.3 Code 39 Parameters

A> Type of Code

<Standard>

Full ASCII

Italian Pharmacy/Code 32

<OFF>

Italian Pharmacy/
Code 32 ON

B> Check Digit Transmission

<Do Not Calculate Check Digit>

Calculate Check Digit
& Transmit

Calculate Check Digit
& Not Transmit

C> Output Start/Stop Character

Enable

<Disable>

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/EA1-128
Enable

<UCC/EA1-128
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>

%4E1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4F00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4F01

1. 2nd Set Begin

%4F00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4F02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C1+

5.5 Interleave 25 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

<Disable>

Enable

D> Set 8p 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 Beg

2. Decimal Value (Appendix A)

3. 1st Set Complete

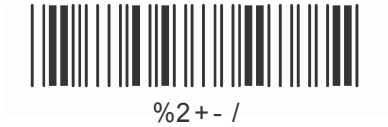
1.2nd Set Begin

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

<Disable>

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 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>

%4H1+

Fix Length (2 Sets Available>

1. 1st Set Begin

%4H00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4H01

1. 2nd Set Begin

%4H00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4H02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
(Appendix A)

3. Complete

%2C3+

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>

%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)

3. 2nd Set Complete

%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>

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

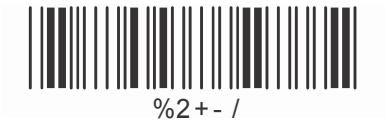
1. 2nd Set Begin

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 2 Digits & 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>

%4L1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4L00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4L01

1. 2nd Set Begin

%4L00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4L02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
(Appendix A)

3. Complete

%2C7+

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. San 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)

2. 2nt Set Complete

Minimum Length

1. Begin

2. Decimal Value (Appendix A)

3. Complete

5.14 Telepen Parameters

A> Type of Code

<Full ASCII Mode>

%0T80

Compressed Numeric Mode

%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>

%4T1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4T00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4T01

1. 2nd Set Begin

%4T00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4T02

Minimum Length

1. Begin

%2%+-/

2. Decimal Value
(Appendix A)

3. Complete

%2CF+

5.15 GS1 Databar

A> GS1 DataBar Omnidirectionl

<Transmit Check Digit>


%0UN7

Don’t Transmit Check Digit


%0UN5

<Transmit Application ID>


%0U88

Don’t Transmit Application ID


%0U80

Transmit Symbology ID


%0U44

<Don’t Transmit Symbology ID>


%0U40

B> GS1 DataBar Limited Parameters

<Transmit Check Digit>


%0VN7

Don’t Transmit Check Digit


%0VN5

<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>

UK English

Italian

Spanish

French

German

Swedish

Switzerland

Hungarian

Japanese

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

ChinaPostage

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

%0 3 I 2

<Bar Equals Low>

%0 3 I 0

6.4 Accuracy

<1 Time>

%0 1 3 0

2 Times (V-1040/LG700)

%0 1 3 1

3 Times

%0 1 3 2

4 Times

%0 1 3 3

6.5 Buzzer Beep Tone

<High>

%0 1 J 3

Medium

%0 1 J 2

Low

%0 1 J 1

Off

%0 1 J 0

6.6 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 in100ms 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 form 1-50.One step is represented 0.1second.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

6.7 Reverse Output Characters

<Disable>

%03H0

Enable

%03H1

6.8 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

UPC-E

EAN-13/JAN-13/ISBN-13

EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/N97

Interleave 25

Industrial 25

Matrix 25

CODE 93

CODE 11

China Postage

MSI/PLESSEY

Code 2 of 6

% 81P+

Telepen

%81T+

LCD25

%81Q+

GS1 DataBar Omnidirectional

%81U+

GS1 DataBar Limited

%8 1V+

GS1 DataBar Expanded

% 81W+

All Codes

%8 1S+

None

% 814+

C> Character Position to be Deleted

1. Decimal Value (Appendix A)

2. Complete

%8 20+

D> Number of Characters to be Deleted

1. Decimal Value (Appendix A)

2. Complete

%8 30+

6.9 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> Symbologies 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

GS1 DataBar
Limited

GS1 DataBar
Expanded

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

6.10 Scanning Line Selection for Multi Parallel lines modes

<Double Click to Interchange Multi Parallel / Single line>

Multiple Parallel Lines Only

Single Line Only