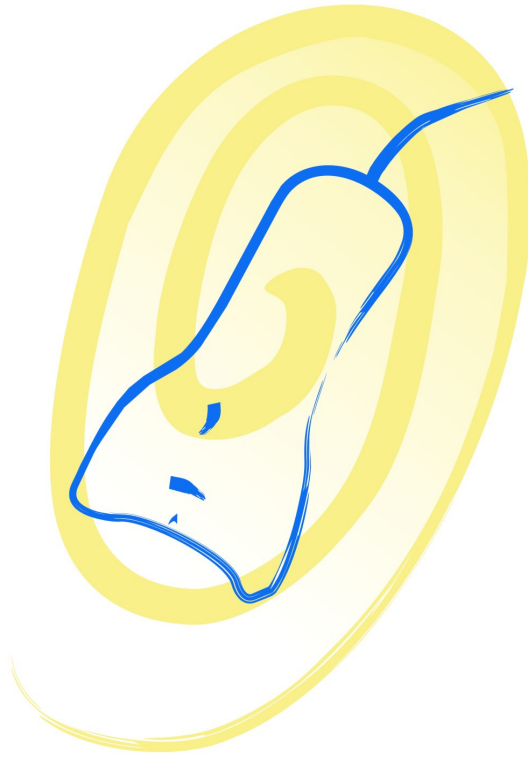


User's Manual



Installation

Installing the Keyboard Wedge Reader

To install a keyboard wedge reader, follow the steps below:

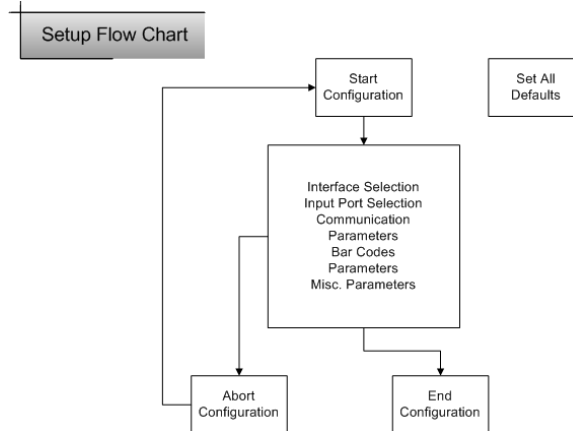
1. Turn off the power of the PC or Terminal.
2. Unplug keyboard from the PC or Terminal.
3. Make sure you have the Y cable with appropriate connector type for your PC or Terminal.
4. Connect Scanner to your PC or Terminal.
5. Connect the keyboard connector to the female connector of the Y cable
6. Turn on the power of PC or Terminal.

Installing the RS232 Reader

To install a RS232 reader, follow the steps below:

1. Turn off the power of the PC or Terminal.
2. Make sure the connector type from RS232 to the PC or Terminal is correct.
3. Plug AC Adaptor connector into connector of the reader.
4. Turn on the power of PC or Terminal.
5. Setup the Interface of the reader to RS232 mode by scanning the barcode in the Interface Selection.

Method of Programming



Loop of programming

The philosophy of programming parameters has been show on the flow chart. 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 go bark to the Default Settings, just scan label for Set All Defaults.

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.

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

Setup Commands

Set All Defaults

Set all the parameters to the factory default setting.



Start Configuration.



End Configuration.



Abort Configuration

Terminate current programming status.



Version Information

Display the decoder version information and date code



Interface Selection



<Keyboard Mode>



RS232 Mode



USB Mode



Start Configuration



Abort Configuration

Reading Mode



<Good Read Off>



Flash-On



Trigger On/Off



Continuous/Trigger Off



Testing



Continuous/No Trigger

Trigger ON/Good Read Off/Delay=??
 *This mode is almost the same as <Good Read OFF> but you can delay time for turning off LED<Default is 3 seconds> you can use the provided Decimal and Hex-Label Tables for your own setup.



Trigger On/Good Read
Off/Delay=??

Continuous/Trigger Off/Delay=??
 *This mode you can define the delay time to control the LED off after releasing the trigger.



Continuous/Trigger Off



End Configuration

RS-232 Communication Parameters

Set Up BAUD Rate



300



<9600>



600



19200



1200



38400



2400



4800



Start Configuration



Abort Configuration

RS-232 Communication Parameters

Set Up Data Bits:



7 Data Bits



<8 Data Bits>

Set up Parity:



<None>



Even



Odd



End Configuration

RS-232 Communication Parameters

Handshaking



<None>



RTS/CTS Enable



ACK/NAK Enable



XON/XOFF Enable



Start Configuration



Abort Configuration

RS-232 Communication Parameters

(ACK/NAK Response Time CTS Observation Time:)

ACK/NAK Time Out=??



Scan Start Configuration Label
Scan ACK/NAK Time-out Label
Scan Two Digit Labels in Table-Hex
Scan Confirm Label in Table-Hex
Scan End Configuration Label

RTS/CTS Time Out=??



Scan Enter Start Configuration Label
Scan RTS/CTS Time-Out Label
Scan Two Digit Labels in Table-Hex
Scan Confirm Label in Table-Hex
Scan End Configuration Label

RTS Signal status:



Normal LOW



<Normal High>



End Configuration

Keyboard Wedge Parameters

Terminal Type



<IBM PC/AT, PS/2>

UPPER/LOWER Case



ATUTO



<Lower Case>



Upper Case

Send character by ALT Method



Enable



ALT MODE
(ALT+HOT KEY)



ALT MODE
(ALL DATA FOR ALT)

Select Numerical Pad



On



<Off>

Bar-space invert to Read



Yes



<No>



Start Configuration



Abort Configuration

Language Selection



<US English>



Poland



UK English



Japanese



Italian



Belgium



Spanish



Portuguese



French



Denmark



Germany



Netherlands



Swedish/Finnish



Norway



Swiss



Latin America



End Configuration

Output Characters Parameters

Select Terminator

Keyboard



NONE



<CR>



SPACE



TAB



ESC



Start Configuration



Abort Configuration

Output Characters Parameters

Select Terminator

RS232



NONE



ESC



<CR>



CTR-C



CR/LF



STX..XOFF



LF



XON..XOFF



SPACE















EOT



TAB

End Configuration

Code ID	
Code ID Selection	
	
CODE ID=ON	<CODE ID=OFF>
Code Length	
	
On	Off
Select Code ID Set	
	
Set<user defined>	Set1
	
Set2	Set3
	
Set4	Set5
	
Set6	Set7
<p>Note 1: UP to two characters of code ID can be configured for each symbology when you select user defined.</p> <p>Note 2: User Can First select one of the code Id sets and then make desired modifications the pre-defined Code ID sets are shown next page table.</p>	



Start Configuration



Abort Configuration

Code ID Set1-Set5 Table

	Set1	Set2	Set3	Set4	Set5
Code 39	A	C	Y	M	A
Italy Pharmacode	A	C	Y	M	A
French Pharmacode	A	C	Y	M	A
Industrial 25	C	H	H	H	S
Interleave 25	D	I	Z	I	S
Matrix 25	E	G	G	G	S
Codabar	F	N	X	N	F
Code 93	I	L	L	L	G
Code 128	H	K	K	K	C
UPCE	S	E	C	E	E
EAN8	P	B	B	FF	E
EAN13	M	A	A	F	E
MSI	V	V	D	P	M
Plessey	W	W	E	Q	P
UPCA	M	A	A	A	E



End Configuration

Code ID

Bar Code ID <USER DEFINED>



CODE 39



MSI/PLESSEY



INDUSTRIAL 2 OF 5



ENA-13



CHINA POSTAGE



UPC-E



CODE 93



INTERLEVED 2 OF 5



MATRIX 2 OF 5



CODABAR/NW7



CODE 128



EAN-8



UPC-A

Note: Refer to ASCII Table; scan two hexadecimal labels in Table-hex to represent one character.



Start Configuration



Abort Configuration

Misc. Parameters

Buzzer Beep Tone



Buzzer Pitch=?? (0-22)



Buzzer Duration=?? (0-127)

Power up Tone



<On>



Off

LED Indicator



<Normal On Good Read Off>



Normal Off Good Read On

Keyboard Speed of PC/AT



<Normal>



Turbo



Single Scan



<Double Scan>



End Configuration

Code Option

UPC-A/EAN-13



<On>



Off

UPC-E



<On>



Off

EAN-8/JAN-8



<On>



Off

CODE 39



<On>



Off

CODE 128



<On>



Off

CODABAR/NW7



<On>



Off



Start Configuration



Abort Configuration

Code Option

Interleave25



<On>



Off

Industrial 25



On



< Off >

UCC EAN/128



On



< Off >

Matrix 25



On



< Off >

CODE 93



<On>



Off



End Configuration

Code Option

China postage



On



<Off>

MSI/PLESSEY



<On>



Off

IATA Code



On



<Off>

ISBN



On



<Off>

UPC-EAN Add-ON 2/5



On



<Off>



Start Configuration



Abort Configuration

Code Option

EAN 8 Convert to EAN-13



On



<Off>



When this option is selected the scanner will convert EAN-8 to EAN-13 by transmitting five zeroes after three characters.



When this option is selected the scanner will convert EAN-8 to EAN-13 by transmitting five zeroes before the barcode

UPC-E Convert to UPC-A



On



<Off>



End Configuration

Transmit Check Character



<On>



Off

Truncate Leading Digit



On



<Off>

Truncate Leading Zero



On



<Off>



Start Configuration



Abort Configuration

UPC-A

Transmit Check Character



<On>



Off

Truncate Leading Zero



On



<Off>

Truncate Leading Digit



On



<Off>

EAN-8 /JAN-8

Transmit Check Char



<On>



Off

Truncate Leading



On



<Off>



End Configuration

UPC-E/UCC EAN/128

Transmit Check Char



<On>



Off

Truncate Leading Digit



On



<Off>

UCC EAN/128



On



<Off>

CODE 39

Concatenation



<Off>



On



Start Configuration



Abort Configuration

CODE 39 / (CODE 32)



<Standard>



Full ASCII

Transmit Start/End Character



On



<Off>

Transmit Check Character



<On>



OFF

Verify Checksum



<OFF>



On



Code 32 On



End Configuration

Interleaved 2 of 5

Transmit Check Character



<On>



Off

Verify Checksum



On



<Off>



Length Define
Min: 02
Max: 48

Barcode Length Setting
Scan Start Configuration
Scan Length Define Label
Scan Four Digit Labels in Table-Hex
Scan Confirm Label in Table-Hex
Scan End Configuration



User Define
3 Sets Available

User Define Length Setting:
Scan Start Configuration
Scan User Define Label
Scan Six digit Labels in Table-Hex
(Only 3 sets of Length can be defined)
Scan confirm Label in Table-Hex
Scan End Configuration



Start Configuration



Abort Configuration

Industrial 2 of 5 / IATA

Transmit Check Character



<On>



Off

Verify Checksum



On



<Off>



Length Define
Min: 2
Max: **24**

Barcode Length Setting
Scan Start Configuration
Scan Length Define Label
Scan Four Digit Labels in Table-Hex
Scan Confirm Label in Table-Hex
Scan End Configuration



User Define
3 Sets Available

User Define Length Setting:
Scan Start Configuration
Scan User Define Label
Scan Six digit Labels in Table-Hex
(Only 3 sets of Length can be defined)
Scan confirm Label in Table-Hex
Scan End Configuration

IATA



On



<Off>



End Configuration

MATRIX 2 OF 5

Transmit Check Character



Off



<On>

Verify Checksum



<Off>



On



Length Define
Min: 2
Max: **40**

Barcode Length Setting
Scan Start Configuration→
Scan Length Define Label→
Scan Four Digit Labels in Table-Hex→
Scan Confirm Label in Table-Hex→
Scan End Configuration



User Define
3 Sets Available

User Define Length Setting:
Scan Start Configuration
Scan User Define Label
Scan Six digit Labels in Table-Hex
(Only 3 sets of Length can be defined)
Scan confirm Label in Table-Hex
Scan End Configuration



Start Configuration



Abort Configuration

CHINA POSTAGE

Transmit Check Character



Off



<On>

Verify Checksum



<Off>



On



Length Define
Min: 2
Max: 40

Barcode Length Setting
Scan Start Configuration
Scan Length Define Label
Scan Four Digit Labels in Table-Hex
Scan Confirm Label in Table-Hex
Scan End Configuration



User Define
3 Sets Available

User Define Length Setting:
Scan Start Configuration
Scan User Define Label
Scan Six digit Labels in Table-Hex
(Only 3 sets of Length can be defined)
Scan confirm Label in Table-Hex
Scan End Configuration



End Configuration

Barcode Setting

Transmit Check Character



On



<Off>

Start / End Transmit Type



ABCD/ABCD



ABCD/TN*E



<abcd/abcd>



Abcd/tn*e

CODABAR / NW7

Start /END Transmit



Off



On



NW7 CS=On



NW7 CS=Off



NW7 TX=No



NW7 TX=Yes



Start Configuration



Abort Configuration

Preamble and Postamble



Preamble



Postamble

Preamble & Postamble Setting:

Scan Start Configuration→

Scan Preamble or Postamble Label→

Refer to ASCII Table; scan two digits in Table-Hex for representing one character, maximum 10 characters can be accepted→

Scan Confirm Label in Table-Hex→

Scan End configuration



Clear

Clear Preamble & Postamble:

Scan Start configuration→

Scan Preamble or Postamble Label→

Scan Clear Label→

Scan End configuration



End Configuration

Function Key Emulation



On

<Off>

Enable Function Key Emulation:
 Scan start configuration
 Scan ON Label
 Scan End configuration
 1: To concatenate a function key with input data;
 please refer to Function Key Table for its
 hexadecimal representation. For Example.
 Preamble data with F1:
 Scan start configuration Label
 Scan Preamble Label
 Scan Label 0 and 1 in Table-Hex
 Scan Confirm Label in Table-Hex
 Scan Exit Label

Function Key with "CR"



Off

<On>

Function Key Table (Full Code 39 Table)

F1:01	F2:02	F3:03	F4:04
F5:05	F6:06	F7:07	F8:08
F9:09	F10:0A	F11:0B	F12:0C
Enter:0D	Tab:0E	BS:0F	Up: 10
Down: 11	Left: 2	Home: 14	End: 15
PgUp: 16	PgDn: 17	Ins: 18	Del: 19
Esc: 1B	Right: 13	S-Tab: 1C	

2: To scan a function key barcode label; Full Code 39 must be enabled. Please refer to Full Code 39 Table to produce the function key barcode label.

Scan start configuration Label
 Scan Full Code 39 Enable Label
 Scan End configuration



Full Code39 Enable



Start Configuration

Abort Configuration

Function code for PC XT/AT



F1 (\$A)



F7 (\$G)



F2 (\$B)



F8 (\$H)



F3 (\$C)



F9 (\$I)



F4 (\$D)



F10 (\$J)



F5 (\$E)



F11 (\$K)



F6 (\$F)



F12 (\$L)



End Configuration

Function code for PC XT/AT



Enter (\$M)



End (\$U)



Tab (\$N)



PgUp (\$V)



BS (\$O)



PgDn(\$W)



Up (\$P)



Ins (\$X)



Down (\$Q)



Del (\$Y)



Left (\$R)



Esc (%A)



Right (\$S)



Home (\$T)



Start Configuration



Abort Configuration

Table-Hex HEXADECIMAL



0



8



1



9



2



A



3



B



4



C



End Configuration

Table-Hex HEXADECIMAL



5



D



6



E



7



F



Confirm



Start Configuration



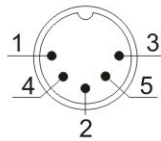
Abort Configuration

Pin Assignments

1.KeyboardOutput

DIN5MALE

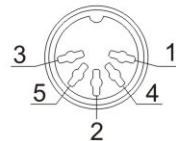
Pin No.	Function
1	HOST CLK
2	HOST DATA
4	GND
5	Vcc(+5V)



DIN 5 Male
Pin Assignment.

DIN5MALE

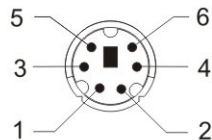
Pin No.	Function
1	KB CLK
2	KB DATA
4	GND
5	Vcc(+5V)



DIN 5 Female
Pin Assignment.

MinDIN6MALE

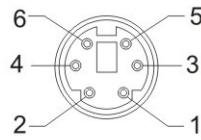
Pin No.	Function
1	HOST DATA
3	GND
4	Vcc
5	HOST CLK



DIN 6 Male
Pin Assignment.

MinDIN6FEMALE

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

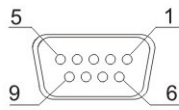


DIN 6 Female
Pin Assignment.

Pin Assignments

2. RS-232 Output DB9 Female

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

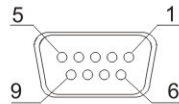


DB 9 Female Pin Assignment.

Male DC Jack

3. WAND Output DB9 Female

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



DB 9 Female Pin Assignment.

ASCII TABLE

.	0	1	2	3	4	5	6	7
0	NUL	DLE	SP	O	@	P		p
1	SOH	DC1	!	1	A	Q	a	q
2	STX	DC2	"	2	B	R	b	r
3	ETX	DC3	#	3	C	S	c	s
4	EOT	DC4	\$	4	D	T	d	t
5	ENQ	NAK	%	5	E	U	e	u
6	ACK	SYN	&	6	F	V	f	v
7	DEL	ETB	'	7	G	W	g	w
8	BS	CAN	(	8	H	X	h	x
9	HT	EM	)	9	I	Y	i	y
A	LF	SUB	*	:	J	Z	J	z
B	VT	ESC	+	;	K	[	k	{
C	FF	FS	,	<	L	\	L	|
D	CR	GS	-	-	M	]	m	}
E	SO	RS	.	>	N	^	n	~
F	SI	US	/	?	O	-	o	DEL.

Hexadecimal-Decimal Conversion Table

HN	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
A	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
B	176	177	178	179	180	181	182	83	184	185	186	187	188	189	190	191
C	192	193	194	195	196	19	198	199	200	201	202	203	204	205	206	207
D	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
E	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
F	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

For example:
Hexadecimal Decimal
 53 → H: 5 L: 3 83
 D5 → H: D L: 5 213