

Chapter 3 Parameter Menus

Set Default Parameter	page 3-3
Host Interface Select	page 3-4
RS-232C Parameters	
Fixed Format Options	page 3-5
Code Types	page 3-6
Code 2 of 5 Lengths	page 3-9
Decode Options	page 3-11
UPC-A Preamble	page 3-17
UPC-E Preamble	page 3-18
Intercharacter Delay	page 3-19
Data Transmission Formats	page 3-21
Prefix/Suffix Values	page 3-22
Transmit Code ID Character	page 3-24
Transmit AIM ID Character	page 3-25
Laser On Time-out	page 3-26
Baud Rate	page 3-28
Parity	page 3-29
Beep on BEL	page 3-30
Hardware Handshaking	page 3-31
Software Handshaking	page 3-32
Stop Bit Select	page 3-33
ASCII Format	page 3-34
Power Mode	page 3-35

Wand Host Parameters

Wand Host Interface	page 3-36
Code Types	page 3-37
Code 2 of 5 Lengths	page 3-40
Decode Options	page 3-42
Laser On Time-out	page 3-44
Power Mode	page 3-46
Wand Emulator Bar Output	page 3-47
Variable Leading Margin	page 3-48
Convert All To Code 39	page 3-50

Synapse Parameters

Code Types	page 3-51
Code 2 of 5 Lengths	page 3-54
Decode Options	page 3-56
UPC-A Preamble	page 3-62
UPC-E Preamble	page 3-63
Data Transmission Formats	page 3-64
Prefix/Suffix Values	page 3-65
Transmit Code ID Character	page 3-67
Transmit AIM ID Character	page 3-68
Laser On Time-out	page 3-69
Power Mode	page 3-71

For an explanation of these parameters, see [page 2-4](#).

Set Default Parameters

Refer to the *Default Table* on page 2-28.

To set defaults for any or all host types, scan the appropriate bar code below. Then select a specific host interface on the next page.



SET RS-232C DEFAULTS



SET WAND DEFAULTS



SET SYNAPSE DEFAULTS



SET ALL DEFAULTS

Host Interface Select

To select a host interface, scan the appropriate bar code below.



SET RS-232C HOST



SET WAND HOST



SET SYNAPSE HOST

RS-232 Host

Fixed Format Options

Select fixed format options for the terminals listed below.



**SET NIXDORF
RS-232C FORMATS**



**SET FUJITSU
RS-232C FORMATS**



**SET ICL
RS-232C FORMATS**

RS-232 Host

Code Type

Add or delete specific code types by scanning the appropriate bar code(s).



ADD CODE 39



DELETE CODE 39



ADD UPC-A



DELETE UPC-A



ADD UPC-E



DELETE UPC-E



ADD CODABAR



DELETE CODABAR

RS-232 Host

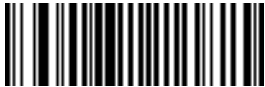
Code Type



ADD EAN-8



DELETE EAN-8



ADD EAN-13



DELETE EAN-13



ADD I 2 OF 5



DELETE I 2 OF 5



ADD D 2 OF 5



DELETE D 2 OF 5

RS-232 Host

Code Type



ADD CODE 128



DELETE CODE 128



ADD MSI/Plessey



DELETE MSI/Plessey



ADD CODE 93



DELETE CODE 93



ADD EAN 128



DELETE EAN 128

RS-232 Host

Code 2 of 5 Lengths

To set the lengths for each code type:

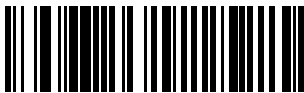
1. Scan the desired option.
2. Scan two bar codes on page 3-10 for each desired length. For example, for a length of “12”, scan “1” then “2”. For a length of “3”, scan “0”, then “3”. **You must always scan two bar codes for each length.**
3. If you make an error, or wish to change your selection, scan **CANCEL**.



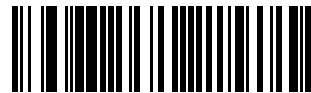
**D 2 of 5 LENGTH 1
(RANGE 02-31)**



**D 2 of 5 LENGTH 2
(RANGE 00-31)**



**I 2 of 5 LENGTH 1
(RANGE 02-32)**



**I 2 of 5 LENGTH 2
(RANGE 00-32)**

RS-232 Host

Code 2 of 5 Lengths



0



1



2



3



4



5



6



7



8



9



CANCEL

RS-232 Host

Decode Options



**TRANSMIT UPC-A
CHECK DIGIT**



**DO NOT
TRANSMIT UPC-A CHECK DIGIT**



**TRANSMIT UPC-E
CHECK DIGIT**



**DO NOT
TRANSMIT UPC-E CHECK DIGIT**



**CONVERT
UPC-E TO UPC-A**



**DO NOT
CONVERT UPC-E TO UPC-A**

RS-232 Host

Decode Options



**DECODE UPC/EAN
WITH SUPPLEMENTALS**



**IGNORE UPC/EAN
WITH SUPPLEMENTALS**



ENABLE EAN ZERO EXTEND



DISABLE EAN ZERO EXTEND



**TRANSMIT "NO DECODE"
MESSAGE**



**DO NOT TRANSMIT
"NO DECODE" MESSAGE**

RS-232 Host

Decode Options



ENABLE CLSI EDITING



DISABLE CLSI EDITING



ENABLE NOTIS EDITING



DISABLE NOTIS EDITING



**ENABLE CODE 39
FULL ASCII**



**DISABLE CODE 39
FULL ASCII**



**VERIFY CODE 39
CHECK DIGIT**



**DO NOT VERIFY CODE 39
CHECK DIGIT**

RS-232 Host

Decode Options



**ITF-14/EAN-13 CONVERSION
ENABLED**



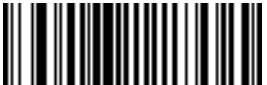
**ITF-14/EAN-13 CONVERSION
DISABLED**



BEEP AFTER GOOD DECODE



**DO NOT
BEEP AFTER GOOD DECODE**



BUFFER CODE 39



**DO NOT
BUFFER CODE 39**

RS-232 Host

Decode Options



UPC/EAN SECURITY LEVEL 0



UPC/EAN SECURITY LEVEL 1



UPC/EAN SECURITY LEVEL 2



UPC/EAN SECURITY LEVEL 3

RS-232 Host

Decode Options



**ENABLE 1 MSI/Plessey
CHECK DIGIT**



**ENABLE 2 MSI/Plessey
CHECK DIGITS**



**MSI 2 CHECK DIGITS
MOD 10 - MOD 10**



**MSI 2 CHECK DIGITS
MOD 11 - MOD 10**



**ENABLE CODABAR
DECODE REDUNDANCY**



**DISABLE CODABAR
DECODE REDUNDANCY**

RS-232 Host

UPC-A Preamble

Select one option for UPC-A preamble by scanning the appropriate bar code.



NONE



SYSTEM CHARACTER



**SYSTEM CHARACTER
&
COUNTRY CODE**

RS-232 Host

UPC-E Preamble

Select one option for UPC-E preamble by scanning the appropriate bar code.



NONE



SYSTEM CHARACTER



**SYSTEM CHARACTER
&
COUNTRY CODE**

RS-232 Host

Intercharacter Delay

To set a host communications intercharacter delay:

1. Scan the **INTERCHARACTER DELAY** bar code below.
2. Scan two bar codes on the next page which represent the desired delay (from 00 to 99 msec). You must always scan two bar codes.
3. If you make an error, or wish to change your selection, scan **CANCEL**



INTERCHARACTER DELAY

RS-232 Host

Intercharacter Delay



0



1



2



3



4



5



6



7



8



9



CANCEL

RS-232 Host

Data Transmission Formats

Scan the option you wish to set.



DATA AS IS



<PREFIX> <DATA>



<DATA> <SUFFIX>



<PREFIX> <DATA> <SUFFIX>

RS-232 Host

Prefix/Suffix Values

To set a **PREFIX/SUFFIX** value:

1. Scan the option bar code you wish to set.
2. Scan four bar codes on the next page which correspond to the ASCII value or keystroke you wish to assign. The **ENTER** key is the default for all options.
3. If you make an error, or wish to change your selection, scan **CANCEL**



PREFIX



SUFFIX

RS-232 Host

Prefix/Suffix Values



0



1



2



3



4



5



6



7



8



9



CANCEL

RS-232 Host

Transmit Code ID Character

Select whether to enable or disable this parameter.



TRANSMIT CODE ID CHARACTER



**DO NOT
TRANSMIT CODE ID CHARACTER**

RS-232 Host

Transmit AIM ID Character

Select whether to enable or disable this parameter.



TRANSMIT AIM ID CHARACTER



**DO NOT
TRANSMIT AIM ID CHARACTER**

RS-232 Host

Laser On Time-out

To select a laser on time-out, scan the bar code below or on the next page corresponding to the desired time.



0.5 SECONDS



1.0 SECONDS



1.5 SECONDS



2.0 SECONDS



2.5 SECONDS



3.0 SECONDS

RS-232 Host

Laser On Time-out



3.5 SECONDS



4.0 SECONDS



4.5 SECONDS



5.0 SECONDS

RS-232 Host

Baud Rate

Set the baud rate for RS-232C transmission.



600



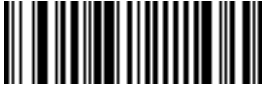
4800



1200



9600



2400



19200

RS-232 Host

Parity

Set the type of parity for RS-232C transmission.



ODD



EVEN



MARK



SPACE



NONE

RS-232 Host

Beep on BEL

Select whether or not enable this parameter.



BEEP ON BEL



DO NOT BEEP ON BEL

RS-232 Host

Hardware Handshaking

Select the type of RS-232C hardware handshaking protocol.



NONE



RTS/CTS

RS-232 Host

Software Handshaking

Select the type of RS-232C software handshaking protocol.



NONE



ACK/NAK



ENQ ONLY



ACK/NAK with ENQ



XON/XOFF

RS-232 Host

Stop Bit Select

Select the desired number of stop bits for RS-232C communications.



1 STOP BIT



2 STOP BITS

RS-232 Host

ASCII Data Format

Select either 7-bit or 8-bit ASCII format for RS-232C communications.



7-BIT



8-BIT

RS-232 Host

Power Mode

Select whether the laser remains on continuously, or turns off after a decode attempt (Low Power).



CONTINUOUS ON



LOW POWER

Wand Host Interface

Select the appropriate host by scanning one of the bar codes below.



SYMBOLLINK CONTROLLER



SYMBOL PORTABLE TERMINAL



NORAND TERMINAL

Wand Host

Code Type

Add or delete specific code types by scanning the appropriate bar code(s).



ADD CODE 39



DELETE CODE 39



ADD UPC-A



DELETE UPC-A



ADD UPC-E



DELETE UPC-E



ADD CODABAR



DELETE CODABAR

Wand Host

Code Type



ADD EAN-8



DELETE EAN-8



ADD EAN-13



DELETE EAN-13



ADD I 2 OF 5



DELETE I 2 OF 5



ADD D 2 OF 5



DELETE D 2 OF 5

Wand Host

Code Type



ADD CODE 128



DELETE CODE 128



ADD MSI/Plessey



DELETE MSI/Plessey



ADD CODE 93



DELETE CODE 93



ADD EAN 128



DELETE EAN 128

Wand Host

Code 2 of 5 Lengths

To set the lengths for each code type:

1. Scan the desired option.
2. Scan two bar codes on page 3-41 for each desired length. For example, for a length of “12”, scan “1” then “2”. For a length of “3”, scan “0”, then “3”. **You must always scan two bar codes for each length.**
3. If you make an error, or wish to change your selection, scan **CANCEL**.



**D 2 of 5 LENGTH 1
(RANGE 02-31)**



**D 2 of 5 LENGTH 2
(RANGE 00-31)**



**I 2 of 5 LENGTH 1
(RANGE 02-31)**



**I 2 of 5 LENGTH 2
(RANGE 00-31)**

Wand Host

Code 2 of 5 Lengths



0



1



2



3



4



5



6



7



8



9



CANCEL

Wand Host

Decode Options



**DECODE UPC/EAN
WITH SUPPLEMENTALS**



**IGNORE UPC/EAN
WITH SUPPLEMENTALS**



BEEP AFTER GOOD DECODE



**DO NOT
BEEP AFTER GOOD DECODE**



**ENABLE 1 MSI/Plessey
CHECK DIGIT**



**ENABLE 2 MSI/Plessey
CHECK DIGITS**

Wand Host

Decode Options



**MSI 2 CHECK DIGITS
MOD 10 - MOD 10**



**MSI 2 CHECK DIGITS
MOD 11 - MOD 10**



**ENABLE CODABAR
DECODE REDUNDANCY**



**DISABLE CODABAR
DECODE REDUNDANCY**



UPC/EAN SECURITY LEVEL 0



UPC/EAN SECURITY LEVEL 1



UPC/EAN SECURITY LEVEL 2



UPC/EAN SECURITY LEVEL 3

Wand Host

Laser On Time-out

To select a laser on time-out, scan the bar code below or on the next page corresponding to the desired time.



0.5 SECONDS



1.0 SECONDS



1.5 SECONDS



2.0 SECONDS



2.5 SECONDS



3.0 SECONDS

Wand Host

Laser On Time-out



3.5 SECONDS



4.0 SECONDS



4.5 SECONDS



5.0 SECONDS

Wand Host

Power Mode

Select whether the laser remains on continuously, or turns off after a decode attempt (Low Power).



CONTINUOUS ON



LOW POWER

Wand Host

Wand Emulator Bar Output

Select the option that matches your host system.



BAR HIGH



BAR LOW

Wand Host

Variable Leading Margin

Select a variable leading margin.



80 msec



110 msec



90 msec



120 msec



100 msec



130 msec

Wand Host

Variable Leading Margin



140 msec



170 msec



180 msec



150 msec



190 msec



160 msec



200 msec

Wand Host

Convert All to Code 39

Select whether or not to convert the decoded output to Code 39.



CONVERT ALL TO CODE 39



DO NOT CONVERT ALL TO CODE 39

Synapse

Code Type

Add or delete specific code types by scanning the appropriate bar code(s).



ADD CODE 39



DELETE CODE 39



ADD UPC-A



DELETE UPC-A



ADD UPC-E



DELETE UPC-E



ADD CODABAR



DELETE CODABAR

Synapse

Code Type



ADD EAN-8



DELETE EAN-8



ADD EAN-13



DELETE EAN-13



ADD I 2 OF 5



DELETE I 2 OF 5



ADD D 2 OF 5



DELETE D 2 OF 5

Synapse

Code Type



ADD CODE 128



DELETE CODE 128



ADD MSI/Plessey



DELETE MSI/Plessey



ADD CODE 93



DELETE CODE 93



ADD EAN 128



DELETE EAN 128

Synapse

Code 2 of 5 Lengths

To set the lengths for each code type:

1. Scan the desired option.
2. Scan two bar codes on page 3-55 for each desired length. For example, for a length of “12”, scan “1” then “2”. For a length of “3”, scan “0”, then “3”. **You must always scan two bar codes for each length.**
3. If you make an error, or wish to change your selection, scan **CANCEL**.



**D 2 of 5 LENGTH 1
(RANGE 02-31)**



**D 2 of 5 LENGTH 2
(RANGE 00-31)**



**I 2 of 5 LENGTH 1
(RANGE 02-31)**



**I 2 of 5 LENGTH 2
(RANGE 00-31)**

Synapse

Code 2 of 5 Lengths



0



1



2



3



4



5



6



7



8



9



CANCEL

Synapse

Decode Options



**TRANSMIT UPC-A
CHECK DIGIT**



**DO NOT
TRANSMIT UPC-A CHECK DIGIT**



**TRANSMIT UPC-E
CHECK DIGIT**



**DO NOT
TRANSMIT UPC-E CHECK DIGIT**



**CONVERT
UPC-E TO UPC-A**



**DO NOT
CONVERT UPC-E TO UPC-A**

Synapse

Decode Options



**DECODE UPC/EAN
WITH SUPPLEMENTALS**



**IGNORE UPC/EAN
WITH SUPPLEMENTALS**



ENABLE EAN ZERO EXTEND



DISABLE EAN ZERO EXTEND



**TRANSMIT "NO DECODE"
MESSAGE**



**DO NOT TRANSMIT
"NO DECODE" MESSAGE**

Synapse

Decode Options



ENABLE CLSI EDITING



DISABLE CLSI EDITING



ENABLE NOTIS EDITING



DISABLE NOTIS EDITING



**ENABLE CODE 39
FULL ASCII**



**DISABLE CODE 39
FULL ASCII**



**VERIFY CODE 39
CHECK DIGIT**



**DO NOT VERIFY CODE 39
CHECK DIGIT**

Synapse

Decode Options



**ITF-14/EAN-13 CONVERSION
ENABLED**



**ITF-14/EAN-13 CONVERSION
DISABLED**



BEEP AFTER GOOD DECODE



**DO NOT
BEEP AFTER GOOD DECODE**



BUFFER CODE 39



**DO NOT
BUFFER CODE 39**

Synapse

Decode Options



UPC/EAN SECURITY LEVEL 0



UPC/EAN SECURITY LEVEL 1



UPC/EAN SECURITY LEVEL 2



UPC/EAN SECURITY LEVEL 3

Synapse

Decode Options



**ENABLE 1 MSI/Plessey
CHECK DIGIT**



**ENABLE 2 MSI/Plessey
CHECK DIGITS**



**MSI 2 CHECK DIGITS
MOD 10 - MOD 10**



**MSI 2 CHECK DIGITS
MOD 11 - MOD 10**



**ENABLE CODABAR
DECODE REDUNDANCY**



**DISABLE CODABAR
DECODE REDUNDANCY**

Synapse

UPC-A Preamble

Select one option for UPC-A preamble by scanning the appropriate bar code.



NONE



SYSTEM CHARACTER



**SYSTEM CHARACTER
&
COUNTRY CODE**

Synapse

UPC-E Preamble

Select one option for UPC-E preamble by scanning the appropriate bar code.



NONE



SYSTEM CHARACTER



**SYSTEM CHARACTER
&
COUNTRY CODE**

Synapse

Data Transmission Formats

Scan the option you wish to set.



DATA AS IS



<PREFIX> <DATA>



<DATA> <SUFFIX>



<PREFIX> <DATA> <SUFFIX>

Synapse

Prefix/Suffix Values

To set a **PREFIX/SUFFIX** value:

1. Scan the option bar code you wish to set.
2. Scan three bar codes on the next page which correspond to the ASCII value or keystroke you wish to assign. The **ENTER** key is the default for all options.
3. If you make an error, or wish to change your selection, scan **CANCEL**



PREFIX



SUFFIX

Synapse

Prefix/Suffix Values



0



1



2



3



4



5



6



7



8



9



CANCEL

Synapse

Transmit Code ID Character

Select whether to enable or disable this parameter.



TRANSMIT CODE ID CHARACTER



**DO NOT
TRANSMIT CODE ID CHARACTER**

Synapse

Transmit AIM ID Character

Select whether to enable or disable this parameter.



TRANSMIT AIM ID CHARACTER



**DO NOT
TRANSMIT AIM ID CHARACTER**

Synapse

Laser On Time-out

To select a laser on time-out, scan the bar code below or on the next page corresponding to the desired time.



0.5 SECONDS



1.0 SECONDS



1.5 SECONDS



2.0 SECONDS



2.5 SECONDS



3.0 SECONDS

Synapse

Laser On Time-out



3.5 SECONDS



4.0 SECONDS



4.5 SECONDS



5.0 SECONDS

Synapse

Power Mode

Select whether the laser remains on continuously, or turns off after a decode attempt (Low Power).



CONTINUOUS ON



LOW POWER