



ADVANCED FEATURES

Software Configuration Manual

DATALOGIC  **DL**
Bar Code & More

ADVANCED FEATURES

SOFTWARE CONFIGURATION MANUAL

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TO CHANGE THE CONFIGURATION

This manual provides advanced feature configuration and is used in combination with the HHD Software configuration manual, part number **90ACC1560**.

1. Open the **Hex/Numeric Table** inside the folded page at the end of this Manual and keep it open.
2. Read the **Enter Configuration** code ONCE here:

Enter configuration



3. Read configuration codes from the desired groups in the following pages:

◆ = Default value



= Read the code and follow the procedure given

4. Read the **Exit and Save Configuration** code ONCE here:

Exit and Save Configuration



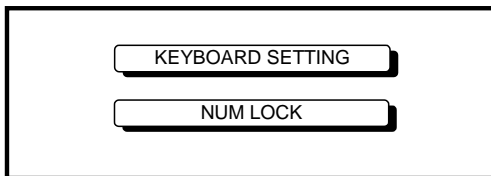
To **cancel** an incomplete configuration sequence:

Backspace



WEDGE

PARAMETERS



ALPHANUMERIC KEYBOARD SETTING

The reader can be used with terminals or PCs with various keyboard types and nationalities through a simple keyboard setting procedure.

The type of computer or terminal must be selected before activating the keyboard setting command.

Keyboard setting consists of communicating to the reader how to send data corresponding to the keyboard used in the application. The keys must be set in a specific order.

Press and release a key to set it.

Some characters may require more than one key pressed simultaneously during normal use (refer to the manual of your PC or terminal for keyboard use). The exact sequence must be indicated to the reader in this case pressing and releasing the different keys.

Example:

If one has to press the "Shift" and "4" keys simultaneously on the keyboard to transmit the character "\$" to the video, to set the "\$", press and release "Shift" then press and release "4".

Each pressed and released key must generate an acoustic signal on the reader, otherwise repress the key. Never press more than one key at the same time, even if this corresponds to the normal use of your keyboard.

Press "Backspace" to correct a wrong key entry. In this case the reader emits 2 beeps.

Note: "CAPS LOCK" and "NUM LOCK" must be off before starting the keyboard setting procedure. "SHIFT" must be repressed for each character and cannot be substituted by "CAPS LOCK".

Setting The Alphanumeric Keyboard



Read the code above.

Press the keys in the following order:

Some ASCII characters may be missing as this depends on the type of keyboard: these are generally particular characters relative to the various national symbologies. In this case:

- **The first 4 characters (Shift, Alt, Ctrl, and Backspace) can only be substituted with keys not used, or substituted with each other.**
- characters can be substituted with other single symbols (e.g. "SPACE") even if not included in the barcode set used.
- characters can be substituted with others corresponding to your keyboard.

The reader signals the end of the procedure with 2 beeps indicating the keys have been registered.

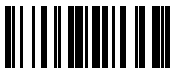
01 : Shift		
02 : Alt		
03 : Ctrl		
04 : Backspace		
05 : SPACE	28 : 7	51 : N
06 : !	29 : 8	52 : O
07 : "	30 : 9	53 : P
08 : #	31 : :	54 : Q
09 : \$	32 : ;	55 : R
10 : %	33 : <	56 : S
11 : &	34 : =	57 : T
12 : '	35 : >	58 : U
13 : (	36 : ?	59 : V
14 :)	37 : @	60 : W
15 : *	38 : A	61 : X
16 : +	39 : B	62 : Y
17 : ,	40 : C	63 : Z
18 : -	41 : D	64 : [
19 : .	42 : E	65 : \
20 : /	43 : F	66 :]
21 : 0	44 : G	67 : ^
22 : 1	45 : H	68 : _ (underscore)
23 : 2	46 : I	69 : `
24 : 3	47 : J	70 : {
25 : 4	48 : K	71 : |
26 : 5	49 : L	72 : }
27 : 6	50 : M	73 : ~
		74 : DEL

NUM LOCK

Toggle Num Lock



◆ Num Lock Unchanged



This selection is used together with the Alt Mode interface selection for AT or Notebook PCs.

It changes the way the Alt Mode procedure is executed, therefore it should be set to the same condition as used by your keyboard. In this way the device will execute the Alt Mode procedure correctly for your application.

DATA FORMAT

NOT FOR PEN EMULATION INTERFACE

PARAMETERS

FIELD ADJUSTMENT
FIELD ADJUST. CHARACTER
CODE LENGTH TX
HEADER
TERMINATOR

The following table can be used for defining Custom Code Identifiers for the following codes:

CODE IDENTIFIER TABLE			
CODE	AIM STANDARD	DATALOGIC STANDARD	Custom
Codablock-A	] O 6	n	
Codablock-F Std	] O 4	l	
Codablock-F EAN	] O 5	m	
MSI	] M y	Z	
Plessey Standard	] P 0	a	
Plessey Anker	] P 1	o	
Telepen	] X 0	d	
Delta IBM	] X 0	c	
Code 11	] H y	b	
Code 16K	] K 0	p	
Code 49	] T y	q	
PDF417	] X 0	r	

AIM standard identifiers are not defined for all codes: the X identifier is assigned to the code for which the standard is not defined. The y value depends on the selected options (check digit tested or not, check digit tx or not, etc.).

FIELD ADJUSTMENT

not valid for
PDF417 codes

◆ disable field adjustment



Field adjustment allows a number of characters n , to be added to or subtracted from the barcode read. The adjustment can be different for each enabled code type. To define the field adjustment:

- ① Read the enable field adjustment code:

enable field adjustment



- ② Select the code type from the Code Identifier Table beginning on page **46**.
- ③ Select the type of adjustment to perform:

right addition



left addition



right deletion



left deletion



- ④ Read a number in the range **01 - 32** from the Hex/Numeric Table to define how many characters to add or delete:

Conditions:

- Adjustment is only performed on the barcode data, the Code Identifier and Code Length Transmission fields are not modified by the field adjustment parameter.
- If the field setting would subtract more characters than exist in the barcode, the subtraction will take place only to code length 0.

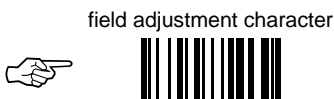
Example:

To add 4 characters to the right of Standard Code 39 Codes:

$$\text{Read } \overset{\text{enable field adjustment}}{\text{Barcode}} + \overset{\text{Code 39}}{\text{Barcode}} + \overset{\text{right addition}}{\text{Barcode}} + 04$$

FIELD ADJUST. CHARACTER

- ① Read the field adjustment character code:



- ② Read the hexadecimal value corresponding to the character you want to use for field adjustment. Valid characters are in the range **00-7F**.

Example:

To define the field adjustment character = **A**:

$$\text{Read } \overset{\text{field adjustment character}}{\text{Barcode}} + 41$$

CODE LENGTH TX

code length transmitted



◆ code length not transmitted



The code length is transmitted in the message after the Headers and Code Identifier characters. The code length is *calculated* after performing any field adjustment operations.

HEADER

no header



one character header



two character header



three character header



four character header



five character header



six character header



seven character header



eight character header



After selecting **one** of the desired Header codes, read the character(s) from the HEX table.

Example:

four character header



+ 41 + 42 + 43 + 44 = Header **ABCD**

TERMINATOR

no terminator



one character terminator



two character terminator



three character terminator



four character terminator



five character terminator



six character terminator



seven character terminator



eight character terminator



After selecting **one** of the desired Terminator codes, read the character(s) from the HEX table.

Example:

two character terminator



+ 0D + 0A = Terminator CR LF

HEADER/TERMINATOR SELECTION

The header/terminator selection is not effected by the reading of the restore default code. Infact, header and terminator default values depend on the interface selection:

- ◆ RS232: no header, terminator CR-LF
- ◆ WEDGE: no header, terminator ENTER

These default values are always restored through the reading of RS232 or WEDGE interface selection code, see the Quick Reference Manual.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

For the WEDGE interface, the following extended keyboard values can also be configured:

EXTENDED KEYBOARD TO HEX CONVERSION TABLE				
	IBM AT IBM 3153 APPLE ADB	IBM XT	IBM 31xx, 32xx, 34xx, 37xx	Wyse Digital
HEX	KEY	KEY	KEY	KEY
83	ENTER	ENTER	FIELD EXIT	RETURN
84	TAB	TAB	TAB	TAB
85	F1	F1	F1	F1
86	F2	F2	F2	F2
87	F3	F3	F3	F3
88	F4	F4	F4	F4
89	F5	F5	F5	F5
8A	F6	F6	F6	F6
8B	F7	F7	F7	F7
8C	F8	F8	F8	F8
8D	F9	F9	F9	F9
8E	F10	F10	F10	F10
8F	F11	ESC	F11	F11
90	F12	BACKSPACE	F12	F12
91	HOME	HOME	ENTER	F13
92	END	END	RESET	F14
93	PG UP	PG UP	INSERT	F15
94	PG DOWN	PG DOWN	DELETE	F16
95	↑	↑	FIELD -	UP
96	↓	↓	FIELD +	DOWN
97	←	←	ENTER (Paddle)	LEFT
98	→	→	PRINT	RIGHT
99	ESC	ESC		ESC
9A	CTRL (Right)	CTRL (Right)	CTRL (Right)	CTRL (Right)

SET CUSTOM EXTENDED HEADER/TERMINATOR KEYS

The extended Header/Terminator keys for **Wedge Interface users** can be customized by defining them through a simple keyboard setting procedure.

For example, the Numeric Keypad keys can be set for use as Headers or Terminators by substituting the default extended keys using this procedure.

The type of computer or terminal must be selected before activating the keyboard setting command.

Press and release a key to set it.

Some characters may require more than one key pressed simultaneously during normal use (refer to the manual of your PC or terminal for keyboard use). The exact sequence must be indicated to the reader in this case pressing and releasing the different keys.

Example:

If one has to press the "Shift" and "4" keys simultaneously on the keyboard to transmit the character "\$" to the video, to set the "\$", press and release "Shift" then press and release "4".

Each pressed and released key must generate an acoustic signal on the reader, otherwise repress the key. Never press more than one key at the same time, even if this corresponds to the normal use of your keyboard.

Press "Back space" to correct a wrong key entry. In this case the reader emits 2 beeps.

Note: "CAPS LOCK" and "NUM LOCK" must be off before starting the keyboard setting procedure. "SHIFT" must be repressed for each character and cannot be substituted by "CAPS LOCK".

Set Custom Extended Header/Terminator Keys



Read the code above.

- If the first 4 KEYS (Shift, Alt, Ctrl, and Backspace) are not available on your keyboard, you can only substitute them with keys not used, or substitute them with each other.
- Keys 5 to 28 must be defined

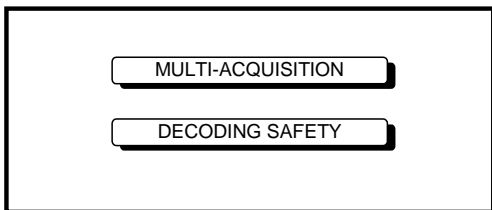
Press the desired keys in the following order:

The reader signals the end of the procedure with 2 beeps indicating the keys have been registered.

CUSTOM EXTENDED KEYBOARD SETTING TABLE		
		Custom
Order	HEX	KEY
01	-	Shift
02	-	Alt
03	-	Ctrl
04	-	Backspace
05	83	
06	84	
07	85	
08	86	
09	87	
10	88	
11	89	
12	8A	
13	8B	
14	8C	
15	8D	
16	8E	
17	8F	
18	90	
19	91	
20	92	
21	93	
22	94	
23	95	
24	96	
25	97	
26	98	
27	99	
28	9A	

DECODING PARAMETERS

PARAMETERS



MULTI-ACQUISITION

enable



◆ disable



In the case of damaged or poorly printed codes, this parameter allows reading multiple parts of the single code to reconstruct it.

Conditions:

- This parameter is only valid for the following codes:

EAN 8 without Add-on	EAN 13 without Add-on	UPC A without Add-on
Code 128	Code 39	

- Codablock-A and Codablock-F codes are automatically disabled.
- For Code 39, Check digit control without transmission is forced.

DECODING SAFETY

◆ one read
(decoding safety disabled)



two reads



three reads



four reads



Required number of good reads before accepting code.

CODE SELECTION

PARAMETERS

	EAN/UPC FAMILY	
	CODABAR FAMILY	
	CODABLOCK-A	*
	CODABLOCK-F	*
	MSI	*
	PLESSEY	*
	TELEPEN	*
	DELTA IBM	*
	CODE 11	*
	CODE 16K	*
	CODE 49	*
PDF READERS ONLY	PDF417	*

NOTE:

The acceptable code length for **all** variable length barcodes, **has been increased** and is valid up to 99 characters.

NOTE:

For PEN Emulation, the codes marked with an asterisk (above drawing) are always converted into Code 39 format.

EAN/UPC FAMILY

disables the family



WITH ADD ON 2 ONLY

EAN 8/EAN 13



UPC A /UPC E



WITH ADD ON 5 ONLY

EAN 8/EAN 13



UPC A /UPC E



Note:

Since the EAN/UPC code selection is enabled by default, to select one of the ADD ON ONLY codes, first disable the family.

CODABAR FAMILY

See the [HHD Software Manual](#) to enable this code family.

The start/stop character case selections below are valid for the entire Codabar family:

START/STOP CHARACTER CASE

◆ lower case start/stop characters



upper case start/stop characters



CODABLOCK-A

◆ disables the code



Codablock-A



Notes:

- Enabling Codablock-A automatically disables the entire Code 39 family and vice-versa.
- Enabling Codablock-A automatically disables Multi-acquisition.

CODABLOCK-F

◆ disables the family



Codablock-F Standard



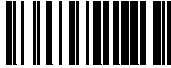
Codablock-F EAN



Notes:

- Enabling Codablock-F automatically disables Multi-acquisition.

◆ disables the family



Enable the code by selecting one of the check digit selections.

no check digit control



MOD10 check digit control
no check digit transmission



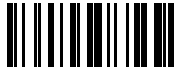
MOD10 check digit control
check digit transmission



MOD11 - MOD10 check digit control
no check digit transmission



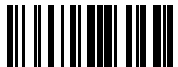
MOD11 - MOD10 check digit control
check digit transmission



MOD10 - MOD10 check digit control
no check digit transmission



MOD10 - MOD10 check digit control
check digit transmission



PLESSEY

◆ disables the family



Enable the code by selecting one of the check digit selections.

Standard Plessey

no check digit control



check digit control
check digit transmitted



check digit control
check digit not transmitted



Anker Plessey

no check digit control



check digit control
check digit transmitted



check digit control
check digit not transmitted



TELEPEN

◆ disables the family



Enable the code by selecting one of the check digit selections.

Numeric Telepen

no check digit control



check digit control
check digit transmitted



check digit control
check digit not transmitted

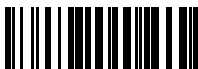


Alphanumeric Telepen

no check digit control



check digit control
check digit transmitted



check digit control
check digit not transmitted



◆ disables the family



Enable the code by selecting one of the check digit selections.

no check digit control



Type 1 check digit control



Type 2 check digit control



CODE 11

◆ disables the family



Enable the code by selecting one of the check digit selections.

no check digit control



Type C check digit control
check digit transmitted



Type C check digit control
check digit not transmitted



Type K check digit control
check digit transmitted



Type K check digit control
check digit not transmitted



Type C and Type K
check digit control
check digits transmitted



Type C and Type K
check digit control
check digits not transmitted



CODE 16K

◆ disables the code



Code 16K



CODE 49

◆ disables the code



Code 49



PDF SERIES READERS ONLY

PDF417

◆ enable



disable



ADVANCED FORMATTING

PARAMETERS

CONCATENATION

ADVANCED FORMATTING

NOTE

Please follow the setup procedure carefully for these parameters.

These parameters are not valid for PDF417 codes.

CONCATENATION

Permits the concatenation of two codes defined by code type and length. It is possible to set a timeout for the second code reading and to define code transmission if the timeout expires.

The order of transmission is CODE 1-CODE 2.

◆ disabled



enabled



Concatenation Code IDs

1

Code 1



Read the code type from the Code Identifier Table beginning on page 46.

2

Code 2



Read the code type from the Code Identifier Table.

Concatenation Code Lengths

3

Code 1



Read a number in the range **01-99** from the Hex/Numeric Table.

4

Code 2



Read a number in the range **01-99** from the Hex/Numeric Table.

Concatenation Result Code ID

5

Use Code 1 ID



Use Code 2 ID



Since you can concatenate codes from different families, you must select the Code ID character of the resulting code. The Code ID character will be sent in the output message only if it is enabled according to the Code Identifier selection (Datalogic, AIM, or Custom).

Concatenation Timeout

6

timeout



Read two numbers in the range **00** to **99**

00= no timeout

01-99 = timeout from 1 to 99 seconds

Define the timeout, which determines the valid waiting period between the two codes, in order to accept concatenation. If the timeout expires, the resulting action will be based on the following selection.

Transmission after Timeout

7

No code transmitted
after timeout



Only Code 1 transmitted
(if read) after timeout



Only Code 2 transmitted
(if read) after timeout



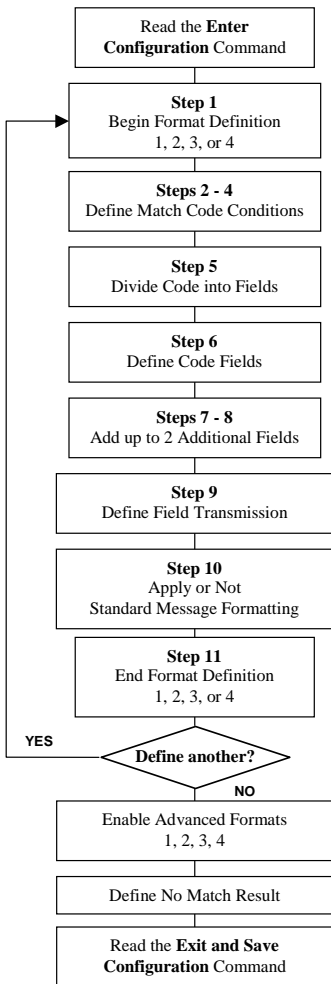
Either Code 1 or Code 2 transmitted
after timeout



ADVANCED FORMATTING

Advanced formatting has been designed to offer you complete flexibility in changing the format of barcode data **before** transmitting it to the host system. This formatting will be performed when the barcode data meets certain criteria which you will define in the following procedure.

Up to 4 advanced code management formats can be defined and saved in memory. For each format you must complete the entire configuration procedure:



Begin Format Definition

1

Begin Format 1 Definition



Begin Format 2 Definition



Begin Format 3 Definition



Begin Format 4 Definition



Match Code Type

2

Match Code Type



Read the above code + the code type to match from the Code Identifier Table.

OR

Match any code type



Match Code Length

3

Match Code Length



Read the above code + two numbers in the range **01** to **99** for the exact code length.

OR

Match any code length



Match with Predefined Characters

4

No match



OR

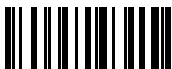
Match with 1 character



Match with a 2-character string



Match with a 3-character string



Match with a 4-character string



After selecting the predefined match code, read the character(s) from the HEX table. Range of characters = **00-7F**.

Example:

Match code with the 2-character predefined string = "@@".

Match with a 2-character string

Read + 40 + 40

AND

Position of First Character in Predefined String



Read the above code + two numbers in the range **01** to **99** representing the character position in the code where the first character of the predefined string must be found.

Read **00** if the match string can be found in any character position.

Divide Code into Fields

5

Divide Code into Fields



Read one number in the range 1 to 5 to divide the code into fields.

Define Code Fields

6

Define Code Fields

Each code field length can be set by either:

- a) defining a field separator character to be found in the code itself. In this case you can choose to **discard** the code separator character or **include** it as the last character of the field.

OR BY

- b) specifying a specific character length up to the maximum of 99 characters.

OR BY

- c) selecting the last field as variable length (if any).

You must define the same number of fields as selected in step 5, including fields that will not be transmitted.

DEFINE FIELD 1 BY:

EITHER

a) 

Field Separator



Read the field separator character from the HEX table.
Range of characters = **00-7F**.

discard separator



include separator



OR

b) 

Field Length



Read two numbers in the range **01** to **99** to define the field length.

OR

c)

This is the Last Field (variable length)



AND

Field 1 Terminators

No Field Terminators



1 Field Terminator



2 Field Terminators



Read the field terminator character(s) from the HEX table.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

DEFINE FIELD 2 BY:

EITHER

a) 

Field Separator



Read the field separator character from the HEX table.
Range of characters = **00-7F**.

discard separator



include separator



OR

b) 

Field Length



Read two numbers in the range **01** to **99** to define the field length.

OR

c)

This is the Last Field (variable length)



AND

Field 2 Terminators

No Field Terminators



1 Field Terminator



2 Field Terminators



Read the field terminator character(s) from the HEX table.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

DEFINE FIELD 3 BY:

EITHER

a) 

Field Separator



Read the field separator character from the HEX table.
Range of characters = **00-7F**.

discard separator



include separator



OR

b) 

Field Length



Read two numbers in the range **01** to **99** to define the field length.

OR

c)

This is the Last Field (variable length)



AND

Field 3 Terminators

No Field Terminators



1 Field Terminator



2 Field Terminators



Read the field terminator character(s) from the HEX table.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

DEFINE FIELD 4 BY:

EITHER

a) 

Field Separator



Read the field separator character from the HEX table.
Range of characters = **00-7F**.

discard separator



include separator



OR

b) 

Field Length



Read two numbers in the range **01** to **99** to define the field length.

OR

c)

This is the Last Field (variable length)



AND

Field 4 Terminators

No Field Terminators



1 Field Terminator



2 Field Terminators



Read the field terminator character(s) from the HEX table.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

DEFINE FIELD 5 BY:

EITHER

a) 

Field Separator



Read the field separator character from the HEX table.
Range of characters = **00-7F**.

discard separator



include separator



OR

b) 

Field Length



Read two numbers in the range **01** to **99** to define the field length.

OR

c)

This is the Last Field (variable length)



AND

Field 5 Terminators

No Field Terminators



1 Field Terminator



2 Field Terminators



Read the field terminator character(s) from the HEX table.

Valid range of characters for RS232 Interface = **00-7F**.

Valid range of characters for WEDGE Interface = **00-9A**.

First Additional Fixed Field

7

No Fixed Field



1 Character Fixed Field



2 Character Fixed Field



3 Character Fixed Field



4 Character Fixed Field



5 Character Fixed Field



6 Character Fixed Field



After selecting **one** of the Additional Fixed Field codes, read the corresponding character(s) from the HEX table. Range of characters = **00-7F**.

Example:

4 Character Fixed Field



+ 4D + 41 + 49 + 4E = MAIN

Second Additional Fixed Field

8

No Fixed Field



1 Character Fixed Field



2 Character Fixed Field



3 Character Fixed Field



4 Character Fixed Field



5 Character Fixed Field



6 Character Fixed Field



After selecting **one** of the Additional Fixed Field codes, read the corresponding character(s) from the HEX table. Range of characters = **00-7F**.

Example:

3 Character Fixed Field



+ 53 + 45 + 54 = SET

Field Transmission

9

Number of Fields to Transmit



Read one number in the range 1 to 7 for the number of fields to transmit. **Include only fields to be transmitted.**

Field Order Transmission

Read the codes corresponding to the fields to transmit in the order in which they are to be transmitted, see example.

Field 1



Field 2



Field 3



Field 4



Field 5



Additional Field 1



Additional Field 2



Example:

The barcode is divided into 2 defined fields plus 1 additional fixed field.

Transmit in the order: Field 2, Additional Field 1, Field 1.

Number of Fields
to Transmit



+ 3 +

Field 2



+

Additional Field 1



+

Field 1



Standard Formatting

10

Do not apply Standard Formatting



Apply Standard Formatting



After performing Advanced Formatting on the barcode read, Standard Formatting (Headers, Code Length, Code ID, Terminators) can be applied to the message to be transmitted.

End Format Definition

11

End Format 1 Definition



End Format 2 Definition



End Format 3 Definition



End Format 4 Definition



Enable Advanced Format

◆ No Advanced Formats Enabled



Advanced Format 1

enable



disable



Advanced Format 2

enable



disable



Advanced Format 3

enable



disable



Advanced Format 4

enable



disable



No Match Result

Clear Data - No transmission



Transmit data using Standard format



This selection determines the action to be taken when codes read do not conform to the advanced format requisites (no match).

Codes not matching can be ignored, cleared from memory and not transmitted.

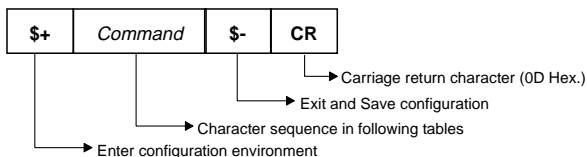
Codes not matching can be transmitted using the Standard formatting (Headers, Code Length, Code ID, Terminators).

HOST CONFIGURATION STRINGS

In this section we provide a description of how to modify the device configuration using serial strings sent from the Host.

This method requires the RS232 interface.

The device configuration can be changed by receiving commands from the Host through the serial interface. When this method is used, the programming sequence format is the following:



Example:

`$+ED1AN1AN2$-CR`

Enable decoding safety = 2 reads, enable codes
Codablock-F Standard and Codablock-F EAN

Each configuration parameter setting removes the condition previously active for that parameter.

ENTER AND EXIT COMMANDS	
DESCRIPTION	STRING
Enter Configuration	\$+
Exit and Save Configuration	\$-
Restore Default	\$*
Transmit Software Release (not for PEN emulation)	\$!

INTERFACE SELECTION		
DESCRIPTION		STRING
WEDGE	IBM AT - ALT mode	CP507
	IBM PC Notebook - ALT mode	CP508
	Wyse Terminal - ANSI Keyboard	CP509
	Wyse Terminal - PC Keyboard	CP510
	Wyse Terminal - ASCII Keyboard	CP511
	Digital Terminals VT2xx/3xx/4xx	CP512
	Apple ADB Bus	CP513

WEDGE		
DESCRIPTION		STRING
Keyboard nationality	Spanish	FJ6
	Belgian	FJ7
Num Lock	Toggle Num Lock	FL1
	Num Lock Unchanged	FL0

DATA FORMAT		
NOT FOR PEN EMULATION INTERFACE		
DESCRIPTION		STRING
Field Adjustment	Disabled	EF0
	Right Addition	EFa0bb
	Left Addition	EFa1bb
	Right Deletion	EFa2bb
	Left Deletion	EFa3bb
Field Adjustment Character		EGc
Code Length Tx	not transmitted	EE0
	transmitted	EE1
Headers	No Header	EA00
	One Character	EA01x
	Two Characters	EA02xx
	Three Characters	EA03xxx
	Four Characters	EA04xxxx
	Five Characters	EA05xxxxx
	Six Characters	EA06xxxxxx
	Seven Characters	EA07xxxxxxx
	Eight Characters	EA08xxxxxxxx
Terminators	No Terminator	EA10
	One Character	EA11x
	Two Characters	EA12xx
	Three Characters	EA13xxx
	Four Characters	EA14xxxx
	Five Characters	EA15xxxxx
	Six Characters	EA16xxxxxx
	Seven Characters	EA17xxxxxxx
	Eight Characters	EA18xxxxxxxx

a = ASCII character of the DATALOGIC STANDARD Code Identifier from the table in the Data Format group

b = a number from **01-32** from the Hex/Numeric table

c = Hex value from **00** to **7F**

x = for RS232 Interface: Hex value from **00** to **7F**

x = for WEDGE Interface: Hex value from **00** to **99**

DECODING PARAMETERS		
DESCRIPTION		STRING
Multi-Acquisition	disabled	AU0
	enabled	AU1
Decoding Safety	one read	ED0
	two reads	ED1
	three reads	ED2
	four reads	ED3

CODE SELECTION		
DESCRIPTION		STRING
DISABLE ALL FAMILY CODES		AZ0
Disable EAN/UPC family		AA0
EAN 8/EAN 13	with ADD ON 2 only	AAK
	with ADD ON 5 only	AAL
UPC A/UPC E	with ADD ON 2 only	AAM
	with ADD ON 5 only	AAN
Codabar Start/Stop characters	lower case	ADA0
	upper case	ADA1
Codablock-A	disable	AO0
	enable	AO1
Codablock-F	disable the family	AN0
	enable Standard	AN1
	enable EAN	AN2
MSI	disable the family	AE0
	no check	AE1
	MOD10 no tx	AE2
	MOD10 with tx	AE3
	MOD11-MOD10 no tx	AE4
	MOD11-MOD10 with tx	AE5
	MOD10-MOD10 no tx	AE6
	MOD10-MOD10 with tx	AE7
Plessey	disable the family	AF0
	Standard no check	AF11
	Standard check - with tx	AF12
	Standard check - no tx	AF13
	Anker no check	AF21
	Anker check - with tx	AF22
	Anker check - no tx	AF23
Telepen	disable the family	AL0
	Numeric no check	AL11
	Numeric check - with tx	AL12
	Numeric check - no tx	AL13
	Alpha no check	AL21
	Alpha check - with tx	AL22
	Alpha check - no tx	AL23
Delta IBM	disable the family	AH0
	no check	AH1
	Type 1 check	AH2
	Type 2 check	AH3

CODE SELECTION		
DESCRIPTION		STRING
Code 11	disable the family	AG0
	no check	AG1
	Type C with tx	AG21
	Type C no tx	AG22
	Type K with tx	AG31
	Type K no tx	AG32
	Type C and K with tx	AG41
	Type C and K no tx	AG42
Code 16K	disable	AJ0
	enable	AJ1
Code 49	disable	AM0
	enable	AM1
PDF417 (only for PDF readers)	disable	AR0
	enable	AR1

CODE IDENTIFIER TABLE

2/5 Interleaved



2/5 Industrial (IATA)



2/5 normal 5 bars



2/5 matrix 3 bars



EAN 8



EAN 13



UPC A



UPC E



EAN 8 with 2 ADD ON



EAN 8 with 5 ADD ON



EAN 13 with 2 ADD ON



EAN 13 with 5 ADD ON



UPC A with 2 ADD ON



UPC A with 5 ADD ON



UPC E with 2 ADD ON



UPC E with 5 ADD ON



Code 39



Code 39 Full ASCII



CODABAR



ABC CODABAR



Code 128



EAN 128



Code 93



CIP/39



CIP/HR



Code 32



CODABLOCK-A



CODABLOCK-F Standard



CODABLOCK-F EAN



MSI



Plessey Standard



Plessey Anker



Telepen



Delta IBM



Code 11



Code 16K



Code 49



PDF417

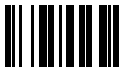


NOTES

NOTES

CHARACTER TO HEX CONVERSION TABLE					
char	hex	char	hex	char	hex
NUL	00	*	2A	U	55
SOH	01	+	2B	V	56
STX	02	,	2C	W	57
ETX	03	-	2D	X	58
EOT	04	.	2E	Y	59
ENQ	05	/	2F	Z	5A
ACK	06	0	30	[	5B
BEL	07	1	31	\	5C
BS	08	2	32	]	5D
HT	09	3	33	^	5E
LF	0A	4	34	`	5F
VT	0B	5	35	a	60
FF	0C	6	36	b	61
CR	0D	7	37	c	62
SO	0E	8	38	d	63
SI	0F	9	39	e	64
DLE	10	:	3A	f	65
DC1	11	;	3B	g	66
DC2	12	<	3C	h	67
DC3	13	=	3D	i	68
DC4	14	>	3E	j	69
NAK	15	?	3F	k	6A
SYN	16	@	40	l	6B
ETB	17	A	41	m	6C
CAN	18	B	42	n	6D
EM	19	C	43	o	6E
SUB	1A	D	44	p	6F
ESC	1B	E	45	q	70
FS	1C	F	46	r	71
GS	1D	G	47	s	72
RS	1E	H	48	t	73
US	1F	I	49	u	74
SPACE	20	J	4A	v	75
!	21	K	4B	w	76
"	22	L	4C	x	77
#	23	M	4D	y	78
\$	24	N	4E	z	79
%	25	O	4F	{	7A
&	26	P	50	|	7B
'	27	Q	51	}	7C
(	28	R	52	~	7D
)	29	S	53	DEL	7E
		T	54		7F

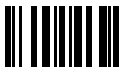
HEX/NUMERIC TABLE



0



1



2



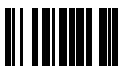
3



4



5



6



7



8



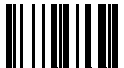
9



A



B



C



D



E



F