GT-7000 Series - Configuration Barcode Tables To be used with accompanying Manual

Introduction

The barcode tables in this manual are designed to be used with the GT-7000 User's Manual also included with this scanner. These tables are duplicated in that manual. The larger format of this manual makes the tables easier to use. This manual also contains additional examples of the Data Editing functions of this scanner.

If you are familiar with the operation of the GT-7000 scanner, you can use the Quick Setup on the following page to setup the scanner. If you are not familiar with the scanner parameters, use the User's Manual along with this manual to setup individual scanner parameters.

Contents

Quick Setup Sheet	2
Group 1 - Device Selection	3
Group 2 - Beeps and Delays	4
Group 3 - Keyboard Wedge, Wand Emulation and Predefined Labels	5
Group 4 - RS-232 Settings	6
Group 5 - Scanner Parameters	7
Group 6 - Code 39, Code 32, Interleaved 2 of 5, Standard 2 of 5	8
Group 7 - Code 128, MSI Code, Code 93, Codabar	9
Grpou 8 - UPC, EAN, Delta Distance Code	10
Group 9 - Data Editing	11
Full ASCII Chart	12
Function Codes for IBM PC Compatibles	18
Function Codes for Macintosh	20
Data Editing Examples	22

Quick Setup Sheet













Custom Sensors, Inc. 30 York St. Auburn, NY, USA 13021 315-252-3741 http://www.csensors.com

Enter Group 1	Group 1 - Device Selection	
	Group Default Factory Default	
0 	Enter Group one by scanning the barcode at the upper left corner of the page. Pick the Device Type for the scanner from the list below. Make sure the scanner is fitted with the proper cable for that device. Scan the barcodes corresponding to the two number device ID listed for that device. Scan Exit to exit this group. The Default setting for this group is Device 01. Factory Default settings (defaults for all groups) can also be restored by scanning the Factoty Default code after entering this group.	
	00 - IBM PC/XT 01 - IBM PC/AT or PS/2 Models 40, 60, 80 02 - IBM PS/2 Model 25, 30, 56, 70, 90 03 - Macintosh ADB 04 - RS-232 06 - Keyboardless Wedge 07 - Wand Emulation (Code 39 Output) 08 - IBM 3196/3197 09 - IBM3476/3477 10 - IBM3191/3192/3270PC 11 - IBM3191/3192/3270PC 11 - IBM3486/3487/3488 13 - IBM3471/3472/3179 15 - IBM3180 17 - IBM3151 19 - IBM5550-5P 20 - IBM5550-6P 26 - Wand Emulation (Native output)	
8 	32 - DEC 220/320/420	





30 York St. Audurn, NY, USA 13021 315-252-3741 http://www.csensors.com





30 York St. Auburn, NY, USA 13021 315-252-3741 http://www.csensors.com

Enter Group 5

Group 5 - Scanner Parameters

To enter Group 5, scan the barcode at the left. Group 5 controls several scanner parameters. The transmission terminator character is normally the CR/LF combination, but can be changed or eliminated. A Code ID character can be added to the data transmission to identify the type of barcode being read. It can be either the standard characters listed on page 15 of the manual, or user defined. With Double Verification, the code must be read on two successive scans to be considered valid. Flash mode is used with the accessory stand. The scanner can be set to read both positive and negative (white bars - black spaces) barcodes. A preamble and postamble can be added to the data transmission. They can be up to 8 characters and include both ASCII characters and Function Codes.

Terminator

- 0 Enter (CR/LF) default
- 1 Field Exit (CR)
- 2 Return (LF) 3 - None

Double Verification



0 - Off (default) 1 - On

Scanning Mode



0 - Trigger (default) 1 - Flash Mode

Code ID



0 - None (default) 1 - User Defined 2 - Default Set

Label Type



0 - Positive (default) 1 - Positive and negative





Define Code ID



- 00 Code 39 Full 01 - Code 39 Std.
- 02 EAN-13
- 03 UPC-A 04 - EAN-8
- 04 EAN-8 05 - UPC-E
- 06 1 2 of 5
- 07 Codabar
- 08 Code 128
- 09 Code 93
- Scan two digits corresponding to the code type, then a single ASCII character from the table.

17 -

10 - S 2 of 5

12 - Code 11

13 - Code 32

14 - Delta Distance

16 - Plessey Code

18 - China Postal

15 - Label Code

11 - MSI Code

Preamble and Postamble

Scan the Preamble or Postamble code, then up to 8 characters from the ASCII or Function Tables. Scan the barcode again to end.





Enter Group 6

Group 6 - Code 39 - Code 32 - Interleaved 2 of 5 - Standard 2 of 5

To enter Group Six, scan the barcode at the left. Group Six sets the reading parameters for Code 39, Code 32 (Italian Pharmacy Code) Interleaved 2 of 5 and Standard 2 of 5. Length Setting Example: To set Code 39 for a length between 5 and 20 characters, scan the Code 39 barcode below. Scan the Min Length Barcode. Scan 0 and 5. Scan Min Length again. Scan Max Length. Scan 2 and 0. Scan Max Length again. Scan exit.



Code 39

- 0 Disable 1 Enable (default) 2 - Full ASCII 3 - Standard (default)
- 4- Check Digit Calculate and Send
- 5- Check Digit Calculate No Send 6 - No Check Digit (default)
- 7 Send Start & Stop
- 8 No Send Start & Stop (default) Default Length = 0 to 48 characters
 - Code 32
- 0 Disable (default)
- 1 Enable
- 2 Send First Character (default)
- 3 No Send First Character
- 4 Send Last Character (default)
- 5 No Send Last Character







Int. 2 of 5

- 0 Disable 1- Enable (default)
- 2- Fixed Length 8,10,12 digits only
- 3 Fixed Length Off (default)
- 4 Check Digit Calc and Send
- 5 Check Digit Calc No Send
- 6 No Check Digit
- 7 No Xmit First Digit
- 8 No Xmit Last Digit
- 9 Xmit All Digits (default)
- Default Length 10 to 64 digits





- 0 Disable (default
- 1- Enable
- 2 -Fixed Length (8, 10, 12)
- 3 Fixed Length Off (default)
- 4 Check Digit Calc. & Send
- 5 Check Digit Calc No Send
- 6 No Check Digit (default) Default Length 4 to 48





Page 8

Custam Sensors, Inc.

30 York St. Auburn, NY, USA 13021 315-252-3741 http://www.csensors.com



Group 7 - Code 128 - MSI Code - Code 93 - Codabar

To enter Group Seven, scan the barcode at the left. Group Seven sets the reading parameters for Code 128, MSI Code, Code 93 and Codabar. Length Setting Example: See Group Six.



Code 128



0 - Disable 1 - Enable (default) Default Length 1 to 64





- 0 Disable (default)
- 1 Enable
- 2 One Check Digit
- 3 Two Check Digits (default)
- 4 Send Check Digit
- 5 No Send (default) Default Length 1 to 48
- Default Length 1 to



- 0 Disable (default) 1 Enable
- 2 Send Check Digit
- 3 No Send Check Digit (default)
- 4 Chk Digit Double Mod 10
- 5 Chk Digit Mod 11 plus 10 6 - Chk Digit Mod 10 (default)
- Default Length 1 to 16



- 0 Disable (default)
- 1 Enable
- 2 Send Start Stop
- 3 No Send (default)
- 4 Chk Digit Calc & Send
- 5 Chk Digit Calc No Send
- 6 No Chk Digit (default)
- 7 CLSI Format On
- 8 CLSI Format Off (default) Default Length 1 to 48

Max Length

Min Length









0 - Disable 1 - Enable (default) Default Length 1 to 48

Enter Group 8

Group 8 - UPC - EAN - Delta Distance Code

To enter Group Eight, scan the barcode at the left. Group Eight sets the reading parameters for UPC, EAN and Delta Distance Code.





- 0 Disable
- 1 Enable (default)
- 2 Send First Digit (default)
- 3 Don't Send First Digit
- 4 Send Chk Digit(default)
- 5 No Send Check Digit

EAN-8

- 0 Disable
- 1 Enable (default)
- 2 Send First Digit (default) 3 - No Send First Digit
- 4 Send Chk Digit (default)
- 5 No Send Chk Digit

UPC-E

- 0 Disable
- 1 Enable (default)
- 2 Send First Digit (default)
- 3 No Send First Digit
- 4 Send Check Digit
- 5 No Send Chk Digit (default)
- 6 Expand to UPC-A
- 7 No Expand (default)

Supplemental Codes



- 0 2 Digit Off (default)
- 1 2 Digit On
- 2 5 Digit Off (default)
- 3 5 digit On
- 4 Transmit if Present
- 5 Must be Present (default)
- 6 Insert Space
- 7 No Space (default)





- 0 Disable
- 1 Enable (default)
- 2 Send First Digit (default)
- 3 Do Not Send First Digit
- 4 Send Check Digit (default)
- 5 No Send Check Digit
- 6 Enable Bookland Output
- 7 Disable Bookland (default)

Delta Distance Code



- 0 Disable (default)
- 1 Enable
- 2 Calc Chk Digit (default)
- 3 No Calc Chk Digit
- 4 Send Chk Digit
- 5 No Send (default)



Custom Sensors, Inc.

30 York St. Auburn, NY, USA 13021 315-252-3741 http://www.csensors.com



















Function Codes for IBM PC Compatibles Continued







Data Editing Examples

Here are a few more examples of Data Editing, in addition to those in Chapter 7 of the Main Manual.

Example 1

The user wants to read two barcodes that contain certain information, extract that information, ignore the remaining information and format the output to enter the information into a data base in the proper sequence. The first code that will be read contains date and lot number information. The barcode is a 17 digit Code 128. The date information starts in character position 3 of the barcode. Characters 3 and 4 are the month (MM), characters 5 and 6 are the day (DD) and characters 7 and 8 (YY) are the year. The lot number starts in position 10 and ends at position 17. The desired output is: Lot Number<CR>MM/DD/YY<CR>. The second barcode is a 16 digit Code 128. The catalog number is contained in positions 10 thru 15. All other data is to be ignored (not output). The desired output is: Catalog Number <CR>. The programming formulas used to accomplish the above are:

IN_ID,8,LEN,17,17,O-STR,11,#,"<0D>",O-STR,3,2,"/",O-STR,5,2,"/",O-STR,7,2,"<0D>",Enter IN_ID,8,LEN,16,16,O-STR,10,6,"<0D>",Enter IN_ID,19,O-STR,1,#,<0D>",Enter

The above formulas appear as they would after scanning the "Review" barcode. The scanner has also been programmed for a terminator of "None".

The IN_ID and LEN statements indicate that these formulas only apply to 17 and 16 character Code 128 barcodes. The third formula lets data from any other codes and lengths pass through unaltered. *It is important to note that barcode data must meet the requirements of some formula, or nothing is output.* <0D> represents the CR (carriage return) character from Page 12. The / character is on page 14. These characters must be in quotes. The # symbol represents all remaining characters in the code. In the first formula you could substitute 7 for #, and the results would be the same.

Custom Sensors, Inc.

30 York St. Auburn, NY, USA 13021 315-252-3741 http://www.csensors.com

Example 2

The user will be reading a Code 39 barcode. When a code is read that has "1234" as the first four characters, the function key F1 should be substituted for these characters, and then the remainder of the barcode is output. The formula, as it would appear after scanning the "review" barcode, is shown below.

IN_ID,1,MATCH,1,"1234","<80>",O-STR,5,#,Enter IN_ID,19,O-STR,1,#,Enter

Note: <80> represents F1. This is how the formula appears after scanning the "Review" barcode. When entering the formula, scan the barcode for F1 in either the PC or Macintosh Function Code tables in this manual. Make sure to scan the quote (") barcode before and after the F1.

The first formula looks for a Code 39 barcode that has the characters "1234" as the first four characters. When it finds this, it substitutes F1 for those characters and then outputs the remaining characters from position 5 to the last character in the code.

The second formula passes all codes, not meeting the requirements of the first formula, to the output unaltered. *It is important to note that barcode data must meet the requirements of some formula, or nothing is output.*