

MT40

Serial Commands Manual

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1. Introduction

1.1 Manual Description

This user's manual describes serial command format and full list of commands that can be configured over serial communication.

1.2 Product Requirements

Model	Firmware Version	Interface
MT40	HM3-k-2.00.R and up	UART
MT40W		USB VCP

2. Command Format

User can configure MT40 by sending serial commands from the host. Please make sure the communication protocols of MT40 match those of the host.

MT40's communication protocols are:

Parameter	Default
Baud Rate	9600
Parity	None
Data Bits	8
Stop Bits	1
Hardware Flow Control	None

2.1 Read/Write/Inquire for General Settings

Below is the command format for host to perform read/write/inquire for general settings:

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	--------------------	------------------

Head = 1 byte of data, { (0x7B)

Function = 5 bytes of data, indicating the specific function

Type = 1 byte of data, which can be either of the 4 options below

R (0x52) means Read Current Value

W (0x57) means Write Value

***** (0x2A) means Inquire Default Value

? (0x3F) means Inquire Configurable Value

Data = Variable, specifying the detailed values/settings of each function. **Data** should only be entered when **Type** is Write. **Data** is omitted when **Type** is **Read/Inquire**.

Tail = 1 byte of data, } (0x7D)

2.2 Response for General Settings

Below is the response format of general settings after the scanner receives command from the host:

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	--------------------	------------------

Head = 1 byte of data, { (0x7B)

Function = 5 bytes of data, indicating the specific function

Type = 1 byte of data, which can be either of the 4 options below

R (0x52) means Read Current Value

W (0x57) means Write Value

***** (0x2A) means Inquire Default Value

? (0x3F) means Inquire Configurable Value

Data = Variable, specifying the detailed values/settings of each function

Tail = 1 byte of data, } (0x7D)

2.3 Example of Read/Write/Inquire/Response for General

Settings

(1) Read current value of function MR001

Host > Scanner: {MR001R}

Scanner > Host: {MR001R2}

(2) Write 6 to function MR001 (Success)

Host > Scanner: {MR001W6}

Scanner > Host: {MR001WOK}

(3) Write 8 to function MR001 (Failure/Not supported)

Host > Scanner: {MR001W8}

Scanner > Host: {MR001WNG}

(4) Inquire default value of function MR001

Host > Scanner: {MR001*}

Scanner > Host: {MR001*2}

(5) Inquire configurable value of function MR001

Host > Scanner: {MR001?}

Scanner > Host: {MR001?1~6:9}

2.4 Read/Write/Inquire for Symbologies

Below is the command format for host to perform read/write/inquire for symbologies:

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Symbol (2 bytes)	Separator (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	---------------------	-----------------------	--------------------	------------------

Head = 1 byte of data, { (0x7B)}

Function = 5 bytes of data, indicating the specific function

Type = 1 byte of data, which can be either of the 4 options below

R (0x52) means Read Current Value

W (0x57) means Write Value

* (0x2A) means Inquire Default Value

? (0x3F) means Inquire Configurable Value

Symbol = 2 bytes of data, indicating the specific symbology

Separator = 1 byte of data, , (0x2C)

Data = Variable, specifying the detailed values/settings of each function. **Data** should only be entered when **Type** is Write. **Data** is omitted when **Type** is **Read/Inquire**.

Tail = 1 byte of data, } (0x7D)

2.5 Response for Symbologies

Below is the response format of symbologies after the scanner receives command from the host:

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Symbol (2 bytes)	Separator (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	---------------------	-----------------------	--------------------	------------------

Head = 1 byte of data, { (0x7B)

Function = 5 bytes of data, indicating the specific function

Type = 1 byte of data, which can be either of the 4 options below

R (0x52) means Read Current Value

W (0x57) means Write Value

* (0x2A) means Inquire Default Value

? (0x3F) means Inquire Configurable Value

Symbol = 2 bytes of data, indicating the specific symbology

Separator = 1 byte of data, , (0x2C)

Data = Variable, specifying the detailed values/settings of each function

Tail = 1 byte of data, } (0x7D)

2.6 Example of Read/Write/Inquire/Response for Symbologies

(1) Read current value of function MS001, symbol 01

Host > Scanner: {MS001R01}

Scanner > Host: {MR001R01,0}

(2) Write 1 to function MS001, symbol 01 (Success)

Host > Scanner: {MS001W01,1}

Scanner > Host: {MS001W01,OK}

(3) Write 3 to function MS001, symbol 01 (Failure/Not supported)

Host > Scanner: {MS001W01,3}

Scanner > Host: {MS001W01,NG}

(4) Inquire default value of MS001, symbol 01

Host > Scanner: {MS001*01}

Scanner > Host: {MS001*01,1}

(5) Inquire configurable value of MS001, symbol 01

Host > Scanner: {MS001?01}

Scanner > Host: {MS001?01,0~1}

2.7 General Commands

(1) Read All Values

When below command is sent, the scanner will return current values of all available functions:

{M ALLR}

(2) Reset to Default

When below command is sent, the scanner will be reset to default, including communication protocols (9600, 8, N, 1)

{M DEFW}

(3) Check Firmware Version

When below command is sent, the scanner will return firmware version:

{M VERR}

(4) Write Flash (Store Parameter)

When below command is sent, all current values/settings will be permanently saved to the flash memory of the scanner.

{M CMDW}

(5) Scan Mode

The scan engine can enter different scan mode to optimize barcode capture in different scenario. Please note that below configurations are not affected by Reset to Default command.

For near to far reading range (general purpose), please send below

command:

{SETEMODE0}

For middle reading range and moderate motion tolerance, please send below command:

{SETEMODE1}

For near reading range and highest motion tolerance, please send below command:

{SETEMODE2}

To check scan mode, please send below command:

{GET_EMODE}

3. Function List - General Settings

This chapter describes all the available functions and data for general settings.

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	--------------------	------------------

Reading Mode

Function	Data (1 byte)
MR001	1: Flash Mode 2: Trigger Mode* 3: Toggle Mode 4: Test Mode 5: Continuous Mode 6: Continuous Auto Off Mode 9: Serial Trigger Mode

Note:

When in Serial Trigger Mode, hardware trigger is not functional and can only be triggered by sending “{ }” or [0x7B][0x20][0x7D] by default.

Example:

To configure reading mode to serial trigger mode, send:

{MR001W9}

LED Auto-Off Timeout

Function	Data (variable)
MR002	A number 0~255. (0 = Continuous, 1 = 0.1 sec, 2 = 0.2 sec, 3 = 0.3 sec, 4 = 0.4 sec, 5 = 0.5 sec, 6 = 1 sec, 7 = 1.5 sec, 8 = 2.0 sec, 9 = 2.5 sec, 10 = 3 sec, 254 = 125 sec, 255 = unlimited) Default is 10 (3 sec)

Note:

LED Auto-Off Timeout is applicable for Flash Mode/Continuous Auto Off Mode/Trigger Mode/Toggle Mode/Serial Trigger Mode (For Trigger Mode/Toggle Mode/Serial Trigger Mode, LED Auto-Off Control must also be enabled to take effect)

Example:

To set LED Auto-Off Timeout as 1.5 sec, send:

{MR002W7}

LED Auto-Off Control

Function	Data (1 byte)
MR003	0: Disable* 1: Enable

Note:

LED Auto-Off Control is applicable for Trigger Mode/Toggle Mode/Serial Trigger Mode.

Example

To enable LED Auto-Off Control, send:

{MR003W1}

No Read Status & No Read Message

Function	Data 1 (1 byte)
MR004	0: Not Send* 1: Send
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	A number 0~10, indicating the length of No Read Message. Default is 7.

	Data 4 (1 byte)
	, (0x2C) as Separator
	Data 5 (variable)
	No Read Message. Default is No Read. Please enter ASCII or Hex value (format: #00~#FF)

Note:

No Read Status & No Read Message is applicable for Trigger Mode/Toggle Mode/Flash Mode/Continuous Auto Off Mode/Serial Trigger Mode. (For Trigger Mode/Toggle Mode/Serial Trigger Mode, LED Auto-Off Control must also be enabled to take effect)

Example:

To enable No Read Status and set NG as No Read Message, send:

{MR004W1,2,NG}

or

{MR004W1,2,#4E#47}

Trigger Control

Function	Data (1 byte)
MR006	0: Disable* 1: Enable

Note:

Trigger Control is applicable for Flash Mode/Continuous Mode/Test Mode.

Example:

To enable Trigger Control, send:

{MR006W1}

Identical Read Interval

Function	Data (variable)
MR007	A number 2~255. (2 = 0.2 sec, 3 = 0.3 sec, 4 = 0.4 sec, 5 = 0.5 sec, 6 = 1.0 sec, 7 = 1.5 sec, 8 = 2.0 sec, 9 = 2.5 sec, 10 = 3 sec, 254 = 124.5 sec, 255 = 125 sec) Default is 6 (1 sec)

Note:

Identical Read Interval is applicable for Flash Mode/Continuous Mode/Continuous Auto Off Mode.

Example:

To set Identical Read Interval as 3 sec, send:

{MR007W10}

Accuracy Adjustment

Function	Data (variable)
MR010	A number 0~9, indicating decode safety level. Default is 0.

Note:

Accuracy Adjustment assures a more reliable decoded output. The higher the number, the greater the accuracy, yet with slower speed.

Example:

To set Accuracy Adjustment as 2, send:

{MR010W2}

Start Scanning Character

Function	Data 1 (variable)
MR013	A number 0~10, indicating the length of Start

	Scanning Character. Default is 1.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	Start Scanning Character. Default is SP (0x20) Please enter ASCII or Hex value (format: #00~#FF)

Note:

Start Scanning Character is only applicable when reading mode is Serial Trigger Mode.

Example:

To set "ABCD" as Start Scanning Character, send:

{MR013W4,ABCD}

or

{MR013W4,#41#42#43#44}

Stop Scanning Character

Function	Data 1 (variable)
MR014	A number 0~10, indicating the length of Stop Scanning Character. Default is 0.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	Stop Scanning Character. Default is N/A. Please enter ASCII or Hex value (format: #00~#FF)

Note:

Stop Scanning Character is only applicable when reading mode is Serial Trigger Mode.

Example:

To set "ABCD" as Stop Scanning Character, send:

{MR014W4,ABCD}

or

{MR014W4,#41#42#43#44}

Interface

Function	Data (1 byte)
MG001	1: UART 4: USB VCP 5: USB HID

Note:

The communication will stop after switching to interface other than current one.

Example:

To configure Interface to USB HID, send:

{MG001W5}

Baud Rate, Parity, Data Bits, Stop Bits

Function	Data 1 (variable)
MG002	3: 1200 bps 4: 2400 bps 5: 4800 bps 6: 9600 bps* 7: 19200 bps 8: 38400 bps 9: 57600 bps 10: 76800 bps 11: 115200 bps
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (1 byte)
	1: Even

	2: Odd 3: Space 4: Mark 5: None*
	Data 4 (1 byte)
	, (0x2C) as Separator
	Data 5 (1 byte)
	1: 7 Data Bits 2: 8 Data Bits*
	Data 6 (1 byte)
	, (0x2C) as Separator
	Data 7 (1 byte)
	1: 1 Stop Bit* 2: 2 Stop Bits

Example:

To set Baud Rate, Parity, Data Bits, Stop Bits as 115200,N,8,1 , send:
 {MG002W11,5,2,1}

Handshaking

Function	Data (1 byte)
MG003	0: None* 1: RTS enabled at Power-Up 2: RTS enabled in Communication

Example:

To enable RTS at Power-Up, send:
 {MG003W1}

Keyboard Layout, Caps Lock, Numeric Key, Function Key

Conversion, HT/CR/ESC to TAB/Enter/Escape Conversion

Function	Data 1 (variable)
MG005	1: English (US)*
	2: Alt Code
	3: German (QWERTZ)
	4: French (AZERTY)
	5: Spanish
	6: Italian
	7: Swiss German (QWERTZ)
	8: Czech (QWERTY)
	9: English (UK)
	10: Japanese (106 Keys)
	11: Hungarian (QWERTZ)
	12: Czech (QWERTZ)
	13: Swiss French (QWERTZ)
	14: Hungarian (QWERTY)
	15: Canadian French (QWERTY)
	16: Swedish
	17: Danish
	18: Dutch
	19: Norwegian
	20: Belgian French (AZERTY)
	21: Portuguese
	22: Slovak
	23: Brazilian Portuguese
	24: Canadian French (Traditional)
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (1 byte)
	0: Caps Lock Off*
	1: Caps Lock On
	2: Caps Lock Free

	Data 4 (1 byte)
	, (0x2C) as Separator
	Data 5 (1 byte)
	0: Disable Numeric Keypad Output* 1: Enable Numeric Keypad Output
	Data 6 (1 byte)
	, (0x2C) as Separator
	Data 7 (1 byte)
	0: Disable Function Key Conversion 1: Enable Function Key Conversion*
	Data 8 (1 byte)
	, (0x2C) as Separator
	Data 9 (1 byte)
	0: Disable HT/CR/ESC to TAB/Enter/Escape conversion* 1: Enable HT/CR/ESC to TAB/Enter/Escape conversion

Example:

To set Keyboard Layout as German, Caps Lock Free, enable Numeric Keypad output, enable Function Key Conversion and enable HT/CR/ESC to TAB/Enter/Escape Conversion, send:

{MG005W3,2,1,1,1}

Code ID

Function	Data (1 byte)
MG012	0: Disable Code ID* 1: Factory ID On 2: AIM ID On 3: Set ID On

Example:

To configure Code ID to Factory ID, send:

{MG012W1}

Send Data Length

Function	Data (1 byte)
MG013	0: Off* 1: On

Note:

When Send Data Length is enabled, a suffix will be added to indicate the length of barcode data.

Example:

To enable Send Data Length, send:

{MG013W1}

Preamble

Function	Data 1 (variable)
MG015	A number 0~16, indicating the length of Preamble. Default is 0.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	Preamble. Default is N/A. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set "ABCD" as Preamble, send:

{MG015W4,ABCD}

or

{MG015W4,#41#42#43#44}

Postamble

Function	Data 1 (variable)
MG016	A number 0~16, indicating the length of Postamble. Default is 0.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	Postamble. Default is N/A. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set "ABCD" as Postamble, send:

{MG016W4,ABCD}

or

{MG016W4,#41#42#43#44}

Terminator

Function	Data 1 (variable)
MG017	A number 0~2, indicating the length of Terminator. Default is 2.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	Terminator. Default is CR+LF for RS232/USB VCP, CR for USB HID.. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set [HT] as Terminator, send:

{MG017W1,#09}

Interblock Delay, Intercharacter Delay

Function	Data 1 (variable)
MG018	0 ~ 255: Interblock Delay (unit = 10ms). Default is 0.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	0 ~ 255: Intercharacter Delay (unit = 1ms). Default is 0.

Note:

Interblock Delay and Intercharacter Delay are only applicable when Interface is USB HID.

Example:

To set Interblock Delay as 10ms and Intercharacter Delay as 5ms, send:

{MG018W1,5}

BCC (Binary Check Character)

Function	Data (1 byte)
MG019	0: Disable* 1: Enable

Note:

When enabled, a checksum will be added to the end of barcode data to conduct Xor calculation. For UART & USB VCP interface, the BCC is 1 byte. For USB HID, the BCC are 2 bytes.

Example:

To enable BCC, send:

{MG019W1}

ACK / NAK

Function	Data (1 byte)
MG020	0: Disable* 1: Enable

Note:

When enabled, the scan engine will emit 3 warning beeps (via external buzzer) if the host, after receiving scan engine's barcode data, does not reply "ACK" (0x06) or "NAK" (0x15) after a ACK / NAK Timeout expires. The scan engine will re-send barcode data if host replies "NAK" (0x15).

Example:

To enable ACK / NAK, send:

{MG020W1}

ACK / NAK Timeout

Function	Data (variable)
MG021	A number 1~255 (unit = ms). Default is 1.

Example:

To set ACK/NAK Timeout as 10ms, send:

{MG021W10}

Command Response

Function	Data (1 byte)
ASK	0: Not send 1: Send*

Note:

When enabled, the scanner will return message after receiving Write command from the host.

Example:

To disable Command Response, send:

{M ASKW0}

Good Read Beep

Function	Data (1 byte)
MT001	0: Beep Off 1: Beep Medium* 2: Beep High 3: Beep Low

Example:

To configure Good Read Beep to Beep Off, send:

{MT001W0}

Sleep Mode Timeout

Function	Data 1 (variable)
MT007	0 ~ 60: Sleep Mode Timeout (unit = minute). Default is 0.
	Data 2 (1 byte)
	, (0x2C) as Separator
	Data 3 (variable)
	0 ~ 59: Sleep Mode Timeout (unit = second). Default is 0.

Note:

Sleep Mode is disabled when Sleep Mode Timeout is 0 minute, 0 second.

To enable Sleep Mode, simply set Sleep Mode Timeout > 0 minute, 0 second.

Example:

To set Sleep Mode Timeout as 10 sec, send:

{MT007W0,10}

Inverse Barcode (Negative Barcode)

Function	Data (1 byte)
MT010	0: Disable* 1: Enable

Example:

To enable Inverse Barcode, send:

{MT010W1}

Setup Code (Barcode Configurability)

Function	Data (1 byte)
MT015	0: Off 1: On*

Example:

To disable Setup Code, send:

{MT015W0}

4. Function List - Symbologies

This chapter describes all the available functions, symbols, and data for Symbologies.

Head (1 Byte)	Function (5 Bytes)	Type (1 Byte)	Symbol (2 Bytes)	Separator (1 Byte)	Data (variable)	Tail (1 Byte)
------------------	-----------------------	------------------	---------------------	-----------------------	--------------------	------------------

Code 39

Status

Function	Symbol	Data (1 byte)
MS001	01	0: Disable 1: Enable*

Example:

To disable Code 39, send:

{MS001W01,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	01	A number 1~99 for Min Length. Default is 1.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Code 39 Min Length as 1 and Max Length as 10, send:

{MS002W01,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	01	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format:

		#00~#FF)
--	--	----------

Example:

To set Code 39 Set ID as "AB", send:

{MS003W01,AB}

or

{MS003W01,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	01	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Code 39 CDV & Send CD, send:

{MS004W01,2}

Start & Stop

Function	Symbol	Data (1 byte)
MS006	01	0: Start/Stop Not Send* 1: Start/Stop Send

Example:

To set Code 39 Start/Stop Send, send:

{MS006W01,1}

Full ASCII Code 39

Status

Function	Symbol	Data (1 byte)
MS001	02	0: Disable 1: Enable*

Example:

To disable Full ASCII Code 39, send:

{MS001W02,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	02	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Full ASCII Code 39 Set ID as "AB", send:

{MS003W02,AB}

or

{MS003W02,#41#42}

Code 32

Status

Function	Symbol	Data (1 byte)
MS001	03	0: Disable* 1: Enable

Example:

To disable Code 32, send:

{MS001W03,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	03	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Code 32 Set ID as "AB", send:

{MS003W03,AB}

or

{MS003W03,#41#42}

Leading & Tailing

Function	Symbol	Data (1 byte)
MS006	03	0: Not Send All 1: Send Leading Only 2: Send Tailing Only 3: Send All*

Example:

To set Code 32 Send Leading Only, send:

{MS006W03,1}

Codabar

Status (Codabar)

Function	Symbol	Data (1 byte)
MS001	05	0: Disable 1: Enable*

Example:

To disable Codabar, send:

{MS001W05,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	05	A number 1~50 for Min Length. Default is 4.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~50 for Max Length. Default is 50.

Example:

To set Codabar Min Length as 1 and Max Length as 10, send:

{MS002W05,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	05	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Codabar Set ID as "AB", send:

{MS003W05,AB}

or

{MS003W05,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	05	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Codabar CDV & Send CD, send:

{MS004W05,2}

Start & Stop Type

Function	Symbol	Data (1 byte)
MS005	05	1: ABCD / ABCD* 2: abcd / abcd 3: ABCD / TN*E 4: abcd / tn*e

Example:

To set Codabar Start & Stop Type as abcd / abcd, send:

{MS005W05,2}

Start & Stop

Function	Symbol	Data (1 byte)
MS006	05	0: Start/Stop Not Send 1: Start/Stop Send*

Example:

To set Codabar Start/Stop Not Send, send:

{MS006W05,0}

CLSI-Format

Function	Symbol	Data (1 byte)
MS007	05	0: Disable* 1: Enable

Example:

To enable Codabar CLSI-Format, send:

{MS007W05,1}

ABC / CX / Coupling Adjacent Required

Function	Symbol	Data (1 byte)
MS008	05	0: Disable* 1: Enable

Example:

To enable Codabar ABC / CX / Coupling Adjacent Required, send:

{MS008W05,1}

ABC-Codabar Status

Function	Symbol	Data (1 byte)
MS001	06	0: Disable* 1: Enable

Example:

To enable ABC-Codabar, send:

{MS001W06,1}

ABC-Codabar Insert Data & Character

Function	Symbol	Data 1 (1 byte)
MS009	06	0: Disable* 1: Enable
		Data 2 (1 byte)
		, (0x2C) as Separator

		Data 3 (variable)
		0~1 alphanumeric characters as Insert Character. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To enable ABC-Codabar Insert Data and set Insert Character as “A”, send:

{MS009W06,1,A}

or

{MS009W06,1,#41}

CX-Codabar Status

Function	Symbol	Data (1 byte)
MS001	07	0: Disable* 1: Enable

Example:

To enable CX-Codabar, send:

{MS001W07,1}

CX-Codabar Insert Data & Character

Function	Symbol	Data 1 (1 byte)
MS009	07	0: Disable* 1: Enable
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		0~1 alphanumeric characters as Insert Character. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To enable CX-Codabar Insert Data and set Insert Character as “A”, send:

{MS009W07,1,A}

or

{MS009W07,1,#41}

Codabar-Coupling Status

Function	Symbol	Data (1 byte)
MS001	08	0: Disable* 1: Enable

Example:

To enable Codabar-Coupling, send:

{MS001W08,1}

Codabar-Coupling Insert Data & Character

Function	Symbol	Data 1 (1 byte)
MS009	08	0: Disable* 1: Enable
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		0~1 alphanumeric characters as Insert Character. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To enable Codabar-Coupling Insert Data and set Insert Character as "A", send:

{MS009W08,1,A}

or

{MS009W08,1,#41}

Interleaved 2 of 5

Status

Function	Symbol	Data (1 byte)
MS001	09	0: Disable 1: Enable*

Example:

To disable Interleaved 2 of 5, send:

{MS001W09,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	09	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Interleaved 2 of 5 Min Length as 1 and Max Length as 10, send:

{MS002W09,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	09	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Interleaved 2 of 5 Set ID as "AB", send:

{MS003W09,AB}

or

{MS003W09,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	09	0: Disable CDV*
		1: CDV & Not Send CD
		2: CDV & Send CD

Example:

To set Interleaved 2 of 5 CDV & Send CD, send:

{MS004W09,2}

First / Last Digit Suppressed

Function	Symbol	Data (1 byte)
MS006	09	0: No digit suppressed* 1: Last digit suppressed 2: First digit suppressed

Example:

To set Interleaved 2 of 5 Last digit suppressed, send:

{MS006W09,1}

Standard 2 of 5 (IATA)

Status

Function	Symbol	Data (1 byte)
MS001	12	0: Disable* 1: Enable

Example:

To enable Standard 2 of 5, send:

{MS001W12,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	12	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Standard 2 of 5 Min Length as 1 and Max Length as 10, send:

{MS002W12,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	12	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Standard 2 of 5 Set ID as "AB", send:

{MS003W12,AB}

or

{MS003W12,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	12	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Standard 2 of 5 CDV & Send CD, send:

{MS004W12,2}

Matrix 2 of 5

Status

Function	Symbol	Data (1 byte)
MS001	13	0: Disable* 1: Enable

Example:

To enable Matrix 2 of 5, send:

{MS001W13,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	13	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Matrix 2 of 5 Min Length as 1 and Max Length as 10, send:

{MS002W13,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	13	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Matrix 2 of 5 Set ID as "AB", send:

{MS003W13,AB}

or

{MS003W13,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	13	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Matrix 2 of 5 CDV & Send CD, send:

{MS004W13,2}

Industrial 2 of 5

Status

Function	Symbol	Data (1 byte)
MS001	14	0: Disable* 1: Enable

Example:

To enable Industrial 2 of 5, send:

{MS001W14,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	14	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Industrial 2 of 5 Min Length as 1 and Max Length as 10, send:

{MS002W14,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	14	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Industrial 2 of 5 Set ID as "AB", send:

{MS003W14,AB}

or

{MS003W14,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	14	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Industrial 2 of 5 CDV & Send CD, send:

{MS004W14,2}

Code 11

Status

Function	Symbol	Data (1 byte)
MS001	15	0: Disable* 1: Enable

Example:

To enable Code 11, send:

{MS001W15,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	15	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 32.

Example:

To set Code 11 Min Length as 1 and Max Length as 10, send:

{MS002W15,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	15	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Code 11 Set ID as "AB", send:

{MS003W15,AB}

or

{MS003W15,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	15	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Code 11 CDV & Send CD, send:

{MS004W15,2}

Check Digit

Function	Symbol	Data (1 byte)
MS005	15	1: 1 Digit* 2: 2 Digits

Example:

To set Code 11 Check Digit as 2 Digits, send:

{MS005W15,2}

Toshiba 2 of 5 (China Postal Code)

Status

Function	Symbol	Data (1 byte)
MS001	17	0: Disable* 1: Enable

Example:

To enable Toshiba 2 of 5, send:

{MS001W17,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	17	A number 1~99 for Min Length. Default is 11.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Toshiba 2 of 5 Min Length as 1 and Max Length as 10, send:

{MS002W17,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	17	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Toshiba 2 of 5 Set ID as "AB", send:

{MS003W17,AB}

or

{MS003W17,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	17	0: Disable CDV* 1: CDV & Not Send CD 2: CDV & Send CD

Example:

To set Toshiba 2 of 5 CDV & Send CD, send:

{MS004W17,2}

MSI Plessey

Status

Function	Symbol	Data (1 byte)
MS001	18	0: Disable* 1: Enable

Example:

To enable MSI Plessey, send:

{MS001W18,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	18	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set MSI Plessey Min Length as 1 and Max Length as 10, send:

{MS002W18,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	18	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set MSI Plessey Set ID as "AB", send:

{MS003W18,AB}

or

{MS003W18,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	18	1: CDV & Not Send CD 2: CDV & Send CD*

Example:

To set MSI Plessey CDV & Not Send CD, send:

{MS004W18,1}

Check Digit

Function	Symbol	Data (1 byte)
MS005	18	1: Single Mod 10* 2: Double Mod 10 3: Mod 11 Plus Mod 10

Example:

To set MSI Plessey Check Digit as Double Mod 10, send:

{MS005W18,2}

UK Plessey

Status

Function	Symbol	Data (1 byte)
MS001	19	0: Disable* 1: Enable

Example:

To enable UK Plessey, send:

{MS001W19,1}

Set Code ID

Function	Symbol	Data (variable)
MS003	19	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set MSI Plessey Set ID as "AB", send:

{MS003W19,AB}

or

{MS003W19,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	19	1: CDV & Not Send CD* 2: CDV & Send CD

Example:

To set MSI Plessey CDV & Send CD, send:

{MS004W19,2}

Telepen

Status

Function	Symbol	Data (1 byte)
MS001	20	0: Disable* 1: Enable

Example:

To enable Telepen, send:

{MS001W20,1}

Set Code ID

Function	Symbol	Data (variable)
MS003	20	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Telepen Set ID as "AB", send:

{MS003W20,AB}

or

{MS003W20,#41#42}

Telepen Code Output

Function	Symbol	Data (1 byte)
MS007	20	0: Number 1: ASCII*

Example:

To set Telepen Code Output as Number, send:

{MS007W20,1}

EAN-13

Status

Function	Symbol	Data (1 byte)
MS001	21	0: Disable 1: Enable*

Example:

To disable EAN-13, send:

{MS001W21,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	21	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set EAN-13 Set ID as "AB", send:

{MS003W21,AB}

or

{MS003W21,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	21	1: CDV & Not Send CD 2: CDV & Send CD*

Example:

To set EAN-13 CDV & Not Send CD, send:

{MS004W21,1}

Lead Digit

Function	Symbol	Data (1 byte)
MS006	21	0: Not Send 1: Send*

Example:

To set EAN-13 Not Send Lead Digit, send:

{MS006W21,0}

Addenda Required

Function	Symbol	Data (1 byte)
MS008	21	0: Disable 1: Enable*

Example:

To disable EAN-13 Addenda Required, send:

{MS008W21,0}

Add a Space

Function	Symbol	Data (1 byte)
MS010	21	0: Disable* 1: Enable

Example:

To enable EAN-13 Add a Space, send:

{MS010W21,1}

5-digit Supplement

Function	Symbol	Data (1 byte)
MS011	21	0: Disable* 1: Enable

Example:

To enable EAN-13 5-digit Supplement, send:

{MS011W21,1}

2-digit Supplement

Function	Symbol	Data (1 byte)
MS012	21	0: Disable* 1: Enable

Example:

To enable EAN-13 2-digit Supplement, send:

{MS012W21,1}

ISBN

Function	Symbol	Data (1 byte)
MS001	25	0: Disable* 1: Enable

Example:

To enable ISBN, send:

{MS001W25,1}

ISBN Mode

Function	Symbol	Data (1 byte)
MS007	25	0: 10 Digits* 1: 13 Digits

Example:

To set ISBN Mode as 13 Digits, send:

{MS007W25,1}

ISSN

Function	Symbol	Data (1 byte)
MS001	26	0: Disable* 1: Enable

Example:

To enable ISSN, send:

{MS001W26,1}

ISMN

Function	Symbol	Data (1 byte)
MS001	27	0: Disable* 1: Enable

Example:

To enable ISMN, send:

{MS001W27,1}

UPC-A

Status

Function	Symbol	Data (1 byte)
MS001	22	0: Disable 1: Enable*

Example:

To disable UPC-A, send:

{MS001W22,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	22	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set UPC-A Set ID as "AB", send:

{MS003W22,AB}

or

{MS003W22,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	22	1: CDV & Not Send CD 2: CDV & Send CD*

Example:

To set UPC-A CDV & Not Send CD, send:

{MS004W22,1}

Lead Digit

Function	Symbol	Data (1 byte)
MS006	22	0: Not Send 1: Send*

Example:

To set UPC-A Not Send Lead Digit, send:

{MS006W22,0}

UPC-A Expand to EAN-13

Function	Symbol	Data (1 byte)
MS007	22	0: Disable* 1: Enable

Example:

To enable UPC-A Expand to EAN-13, send:

{MS007W22,1}

Addenda Required

Function	Symbol	Data (1 byte)
MS008	22	0: Disable 1: Enable*

Example:

To disable UPC-A Addenda Required, send:

{MS008W22,0}

Add a Space

Function	Symbol	Data (1 byte)
MS010	22	0: Disable* 1: Enable

Example:

To enable UPC-A Add a Space, send:

{MS010W22,1}

5-digit Supplement

Function	Symbol	Data (1 byte)
MS011	22	0: Disable* 1: Enable

Example:

To enable UPC-A 5-digit Supplement, send:

{MS011W22,1}

2-digit Supplement

Function	Symbol	Data (1 byte)
MS012	22	0: Disable* 1: Enable

Example:

To enable UPC-A 2-digit Supplement, send:

{MS012W22,1}

EAN-8

Status

Function	Symbol	Data (1 byte)
MS001	23	0: Disable 1: Enable*

Example:

To disable EAN-8, send:

{MS001W23,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	23	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set EAN-8 Set ID as "AB", send:

{MS003W23,AB}

or

{MS003W23,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	23	1: CDV & Not Send CD

		2: CDV & Send CD*
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Example:

To set EAN-8 CDV & Not Send CD, send:

{MS004W23,1}

Lead Digit

Function	Symbol	Data (1 byte)
MS006	23	0: Not Send 1: Send*

Example:

To set EAN-8 Not Send Lead Digit, send:

{MS006W23,0}

EAN-8 Expand to EAN-13 (Zero Extension)

Function	Symbol	Data (1 byte)
MS007	23	0: Disable* 1: Enable

Example:

To enable EAN-8 Expand to EAN-13, send:

{MS007W23,1}

Addenda Required

Function	Symbol	Data (1 byte)
MS008	23	0: Disable 1: Enable*

Example:

To disable EAN-8 Addenda Required, send:

{MS008W23,0}

Add a Space

Function	Symbol	Data (1 byte)
MS010	23	0: Disable* 1: Enable

Example:

To enable EAN-8 Add a Space, send:

{MS010W23,1}

5-digit Supplement

Function	Symbol	Data (1 byte)
MS011	23	0: Disable* 1: Enable

Example:

To enable EAN-8 5-digit Supplement, send:

{MS011W23,1}

2-digit Supplement

Function	Symbol	Data (1 byte)
MS012	23	0: Disable* 1: Enable

Example:

To enable EAN-8 2-digit Supplement, send:

{MS012W23,1}

UPC-E

Status

Function	Symbol	Data (1 byte)
MS001	24	0: Disable 1: Enable*

Example:

To disable UPC-E, send:

{MS001W24,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	24	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set UPC-E Set ID as “AB”, send:

{MS003W24,AB}

or

{MS003W24,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	24	1: CDV & Not Send CD 2: CDV & Send CD*

Example:

To set UPC-E CDV & Not Send CD, send:

{MS004W24,1}

UPC-E Number System

Function	Symbol	Data (1 byte)
MS005	24	0: Disable UPC-E0 & UPC-E1 1: Enable UPC-E0 Only* 2: Enable UPC-E1 Only 3: Enable UPC-E0 & UPC-E1

Example:

To enable UPC-E0 & UPC-E1, send:

{MS005W24,3}

Lead Digit

Function	Symbol	Data (1 byte)
MS006	24	0: Not Send 1: Send*

Example:

To set UPC-E Not Send Lead Digit, send:

{MS006W24,0}

UPC-E Expand to UPC-A

Function	Symbol	Data (1 byte)
MS007	24	0: Disable*

		1: Enable
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Example:

To enable UPC-E Expand to UPC-A, send:

{MS007W24,1}

Addenda Required

Function	Symbol	Data (1 byte)
MS008	24	0: Disable 1: Enable*

Example:

To disable UPC-E Addenda Required, send:

{MS008W24,0}

Add a Space

Function	Symbol	Data (1 byte)
MS010	24	0: Disable* 1: Enable

Example:

To enable UPC-E Add a Space, send:

{MS010W24,1}

5-digit Supplement

Function	Symbol	Data (1 byte)
MS011	24	0: Disable* 1: Enable

Example:

To enable UPC-E 5-digit Supplement, send:

{MS011W24,1}

2-digit Supplement

Function	Symbol	Data (1 byte)
MS012	24	0: Disable* 1: Enable

Example:

To enable UPC-E 2-digit Supplement, send:

{MS012W24,1}

Code 93

Status

Function	Symbol	Data (1 byte)
MS001	28	0: Disable* 1: Enable

Example:

To enable Code 93, send:

{MS001W28,1}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	28	A number 1~99 for Min Length. Default is 6.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Code 93 Min Length as 1 and Max Length as 10, send:

{MS002W28,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	28	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Code 93 Set ID as "AB", send:

{MS003W28,AB}

or

{MS003W28,#41#42}

Code 128

Status

Function	Symbol	Data (1 byte)
MS001	29	0: Disable 1: Enable*

Example:

To disable Code 128, send:

{MS001W29,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	29	A number 1~99 for Min Length. Default is 5.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set Code 128 Min Length as 1 and Max Length as 10, send:

{MS002W29,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	29	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set Code 128 Set ID as "AB", send:

{MS003W29,AB}

or

{MS003W29,#41#42}

GS1-128 (UCC/EAN 128)

Status

Function	Symbol	Data (1 byte)
MS001	30	0: Disable 1: Enable*

Example:

To disable GS1-128, send:

{MS001W30,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	30	A number 1~99 for Min Length. Default is 5.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~99 for Max Length. Default is 48.

Example:

To set GS1-128 Min Length as 1 and Max Length as 10, send:

{MS002W30,1,10}

Set Code ID

Function	Symbol	Data (variable)
MS003	30	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set GS1-128 Set ID as "AB", send:

{MS003W30,AB}

or

{MS003W30,#41#42}

GS1-128 AIM ID

Function	Symbol	Data (1 byte)
MS007	30	0: Disable* 1: Enable

Example:

To enable GS1-128 AIM ID, send:

{MS007W30,1}

GS1-128 Send FNC1 & FNC1 Character

Function	Symbol	Data 1 (1 byte)
MS009	30	0: Disable* 1: Enable
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		0~1 alphanumeric characters as FNC1 Character. Please enter ASCII or Hex value (format: #00~#FF). Default is GS (#1D).

Example:

To enable GS1-128 Send FNC1 and set FNC1 Character as "A", send:

{MS009W30,1,A}

or

{MS009W30,1,#41}

GS1 DataBar

Status

Function	Symbol	Data (1 byte)
MS001	32	0: Disable* 1: Enable

Example:

To enable GS1 DataBar, send:

{MS001W32,1}

Set Code ID

Function	Symbol	Data (variable)
MS003	32	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set GS1 DataBar Set ID as "AB", send:

{MS003W32,AB}

or

{MS003W32,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	32	1: CDV & Not Send CD* 2: CDV & Send CD

Example:

To set GS1 DataBar CDV & Send CD, send:

{MS004W32,1}

Stacked / Omnidirectional

Function	Symbol	Data (1 byte)
MS005	32	0: Disable 1: Enable*

Example:

To disable GS1 DataBar Stacked / Omnidirectional, send:

{MS005W32,0}

Prefix

Function	Symbol	Data (1 byte)
MS006	32	0: Disable* 1: Enable

Example:

To enable GS1 DataBar Prefix, send:

{MS006W32,1}

GS1 DataBar Limited

Status

Function	Symbol	Data (1 byte)
MS001	33	0: Disable 1: Enable*

Example:

To disable GS1 DataBar Limited, send:

{MS001W33,0}

Set Code ID

Function	Symbol	Data (variable)
MS003	33	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)

Example:

To set GS1 DataBar Limited Set ID as "AB", send:

{MS003W33,AB}

or

{MS003W33,#41#42}

Check Digit Verification

Function	Symbol	Data (1 byte)
MS004	33	1: CDV & Not Send CD* 2: CDV & Send CD

Example:

To set GS1 DataBar Limited CDV & Send CD, send:

{MS004W33,1}

Prefix

Function	Symbol	Data (1 byte)
MS006	33	0: Disable* 1: Enable

Example:

To enable GS1 DataBar Limited Prefix, send:

{MS006W33,1}

GS1 DataBar Expanded

Status

Function	Symbol	Data (1 byte)
MS001	34	0: Disable 1: Enable*

Example:

To disable GS1 DataBar Expanded, send:

{MS001W34,0}

Min Length, Max Length

Function	Symbol	Data 1 (variable)
MS002	34	A number 1~74 for Min Length. Default is 1.
		Data 2 (1 byte)
		, (0x2C) as Separator
		Data 3 (variable)
		A number 1~74 for Max Length. Default is 74.

Example:

To set GS1 DataBar Expanded Min Length as 1 and Max Length as 10, send:

{MS002W34,1,10}

Set Code ID

Function	Symbol	Data (variable)
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MS003	34	0~2 alphanumeric characters as Set ID. Please enter ASCII or Hex value (format: #00~#FF)
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Example:

To set GS1 DataBar Expanded Set ID as "AB", send:

{MS003W34,AB}

or

{MS003W34,#41#42}

Stacked

Function	Symbol	Data (1 byte)
MS005	34	0: Disable 1: Enable*

Example:

To disable GS1 DataBar Expanded Stacked, send:

{MS005W34,0}

Appendix

Appendix A - Factory ID and AIM ID Table

Symbology	Factory ID	AIM ID
MSI Plessey	O	]M0
MSI Plessey (MOD10 / Not Send CD)		]M1
EAN-8 (2-digit/5-digit Supplement Off) EAN-8 (2-digit Supplement On) EAN-8 (5-digit Supplement On)	S	]E4
UPC-E (2-digit/5-digit Supplement Off) UPC-E (2-digit Supplement On) UPC-E (5-digit Supplement On)	E	]E0
		]E3
UPC-A (2-digit/5-digit Supplement Off) UPC-A (2-digit Supplement On) UPC-A (5-digit Supplement On)	A	]E0
		]E3
EAN-13 (2-digit/5-digit Supplement Off) EAN-13 (2-digit Supplement On) EAN-13 (5-digit Supplement On)	F	]E0
		]E3
Code 93	L	]G0
Code 11 (Disable CDV)	J	]H0
Code 11 (Send 1-Digit CD)		]H1
Code 11 (Send 2-Digit CD)		]H3
Code 11 (Not Send CD)		

Telepen (ASCII)	U	]B0
Telepen (Number)		]B1
GS1-128 (UCC/EAN 128)	T	]C1
Code 128	K	]C0
Code 32	B	]X0
Codabar	N	]F0
Codabar (ABC Codabar)		]F1
Codabar (CDV & Send CD)		]F2
Codabar (CDV & Not Send CD)		]F4
UK Plessey	P	]P0
Matrix 2 of 5	Y	]X0
Full ASCII Code 39 (Disable CDV)	D	]A4
Full ASCII Code 39 (CDV & Send CD)		]A5
Full ASCII Code 39 (CDV & Not Send		]A7
Code 39 (Disable CDV)	M	]A0
Code 39 (CDV & Send CD)		]A1
Code 39 (CDV & Not Send CD)		]A3
IATA (Standard 2 of 5)	R	]R0
Industrial 2 of 5	V	]S0
China Postal Code (Toshiba Code)	H	]X0
Interleaved 2 of 5 (Disable CDV)	I	]I0
Interleaved 2 of 5 (CDV & Send CD)		]I1
Interleaved 2 of 5 (CDV & Not Send		]I3
GS1 DataBar	G	]E0

Version History

Rev	Date	Description	Issued
1.0	2022.09.07	Initial Release	Shaw
1.1	2022.11.25	Updated Example of Read/Write/Inquire/Response for General Settings Updated Interblock Delay, Intercharacter Delay	Shaw
1.2	2022.12.05	Updated Max Length	Shaw

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