Uputstvo za upotrebu (EN)

SUNLUX barkod skener XL-SCAN 626A

Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

https://tehnoteka.rs/p/sunlux-barkod-skener-xl-scan-626a-akcija-cena/

XL-626 Barcode Scanner

User Manual

V6.6.2

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Preface

Introduction

This manual provides detailed instructions for setting up and using the XL-626 hand-held barcode scanner (hereinafter referred to as **"XL-626 scanner"** or **"the scanner"**).

Chapter Description

✦ *Chapter 1, Getting Started*   : This chapter gives a general description of XL-626 scanner including its technical parameters.

✦ *Chapter 2, System Settings*   : This chapter introduces two methods to configure the XL-626 scanner: barcode programming and command programming.

✦ *Chapter 3, Communication Settings* : This chapter describes how to configure RS-232 and USB parameters.

✦ *Chapter 4, Data Formatting*   : This chapter describes how to use prefix and suffix to customize scanned data.

✦ *Chapter 5, Symbologies*   : This chapter lists all compatible symbologies and describes how to configure the relevant parameters.

✦ *Appendix*   : This chapter offers factory defaults table and a bunch of frequently used programming barcodes.

Introduction

XL-626 scanner is a 1D barcode scanner with excellent performance. Based on the technology independently developed by Sunlux, XL-626 scanner is able to deliver rapid image acquisition and accurate decoding; it can provide customers with best services. XL-626 scanner boasts the ergonomical design that ensures easy and comfortable operation.

An illustrated introduction to the XL-626 scanner is included in this chapter. If you have an XL-626 device at hand, make good use of it to develop a better understanding of this manual. This chapter is written for normal users, maintenance staff and software developers.

Unpacking

Open the package and take out XL-626 scanner and its accessories. Check to make sure everything on the packing list is present and intact. If any contents are damaged or missing, please keep the original package and contact your dealer immediately for after-sale service.

Scanner
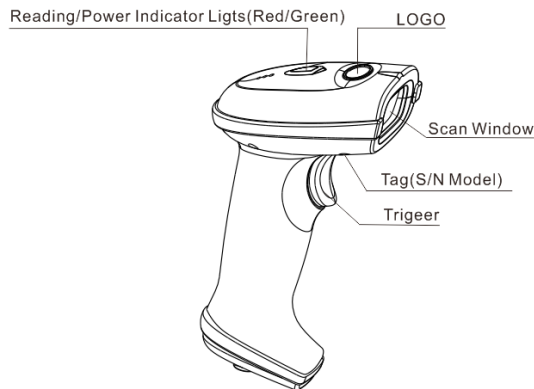
Fig. 1-1

Reading/Power LED:

Red   : The device is powered on
Green: Barcode is decoded successfully

Cable Slot
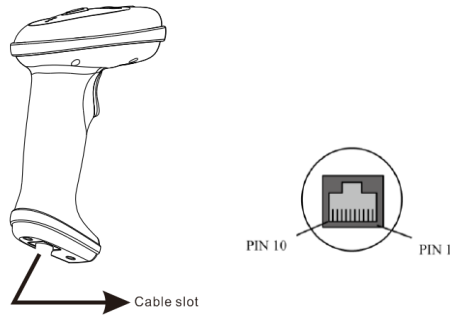
Fig. 1-2

Cable port pinout:

PIN	Definition	Type	Description
1	CLK1	I/O	Keyboard clock signal
2	DATA1	I/O	Keyboard data signal
3	VCC	P	Power+ (DC5V)
4	TXD	O	RS-232 Output
5	RXD	I	RS-232 Input
6	CLK2	I/O	PC clock signal
7	DATA2	I/O	PC keyboard signal
8	GND	P	Ground
9	D-	I/O	USB signal
10	D+	I/O	

Connect XL-626 to a Host

XL-626 scanner must be connected to a host device in actual application, such as PC, POS or any intelligent terminal with USB or RS-232 or PS/2 (hardware version: V2 or higher) interface, using a communication cable (USB or RS-232 or PS/2 cable).

✧ USB
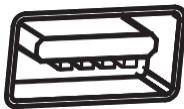
 USB port on the host

✧ RS-232

 RS-232 port on the host

✧ PS/2

 PS/2 port on the host

Note: Please check the port on the host and purchase the right cable.

Use USB Cable
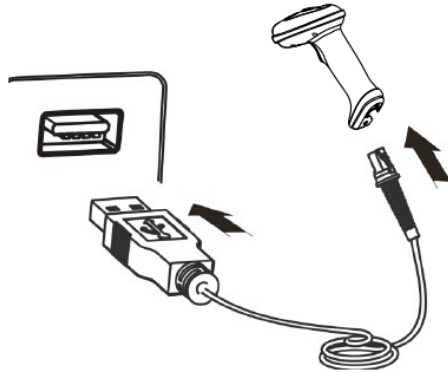
Fig. 1-3

Connect XL-626 scanner to a Host through a USB cable with RJ45 and USB connectors:

1. Plug the RJ45 connector into the cable slot (see Fig.1-1) on the scanner.
2. Plug the USB connector into the USB port on the Host.

Use RS-232 Cable
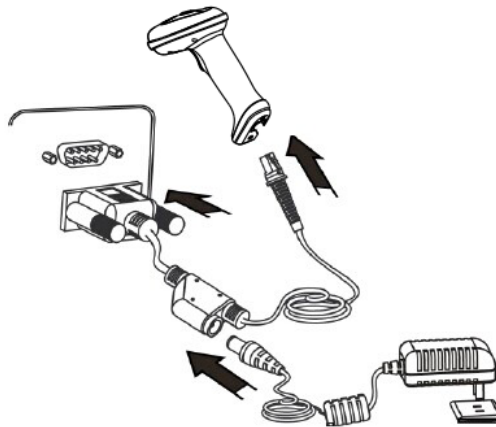
Fig. 1-4

Connect XL-626 scanner to a Host through an RS-232 cable with RJ45/RS-232 connectors and a power

jack:

1. Plug the RJ45 connector into the cable slot (see Fig.1-1) on the scanner.
2. Plug the RS-232 connector into the RS-232 port on the Host.
3. Plug the power adapter into the power jack on the RS-232 cable.

Use PS/2 Cable (Hardware Version: V2 or higher)
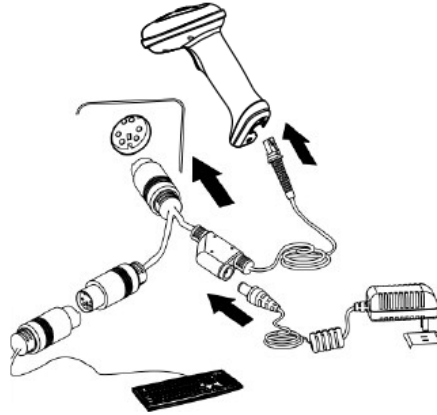
Fig. 1-5

Connect XL-626 scanner to a Host through a PS/2 cable with RJ45 and PS/2 connectors and a power jack:

1. Plug the RJ45 connector into the data slot (see Fig.1-1) on the scanner.
2. Plug the PS/2 connector into the PS/2 port on the Host.
3. When required, plug the power adapter into the power jack on the PS/2 cable.
4. When required, connect the PS/2 cable to a keyboard via its PS/2 port.

Remove Communication Cable
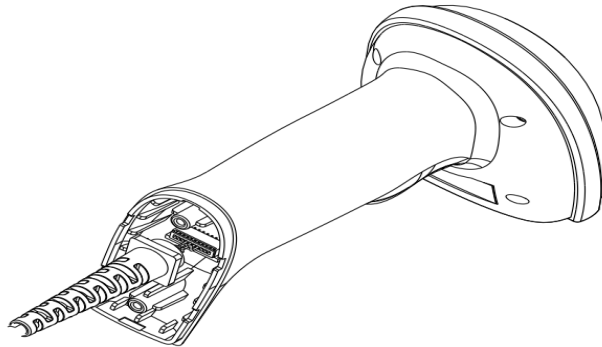
Fig. 1-6

Get an appropriate needle or a straightened paper clip and then follow the steps below:

1. Disconnect the power adapter from mains and the scanner if there is one.
2. Insert the needle into the disassemble hole (Fig. 1-6).
3. Pull out the cable slowly from the scanner while pressing the needle in. Then remove the needle.
4. Disconnect the cable from the Host.

Power on, Power off, Sleep, Reboot

Power on the scanner

Connect the scanner to a host device. Then the scanner will be turned on and automatically go into sleep mode.

Power off the scanner

There are three ways to turn off the scanner:

✧ Remove the cable from the scanner.
✧ Remove the cable from the host device.
✧ Disconnect the power adapter from mains or the scanner.

Enter the sleep mode

If no operation is performed on the scanner for some time, the scanner will automatically enter the sleep state.

Reboot the scanner

If the scanner stops responding to input or runs abnormally, disconnect the scanner from the host device and then reconnect it.

Maintenance

✧ The scan window should be kept clean.

✧ Do not scratch the scan window of the device.

✧ Use soft brush to remove the stain from the scan window.

✧ Use the soft cloth to clean the window, such as eyeglass cleaning cloth.

✧ Do not spray any liquid on the scan window.

✧ Clean other parts of the device with water only.

Note: The warranty **DOES NOT** cover damages caused by inappropriate care and maintenance.

Dimensions

Left View

Unit: mm

175

Fig. 1-7

Front View

Unit: mm

52

28

Fig. 1-8

Top View

Unit: mm

73
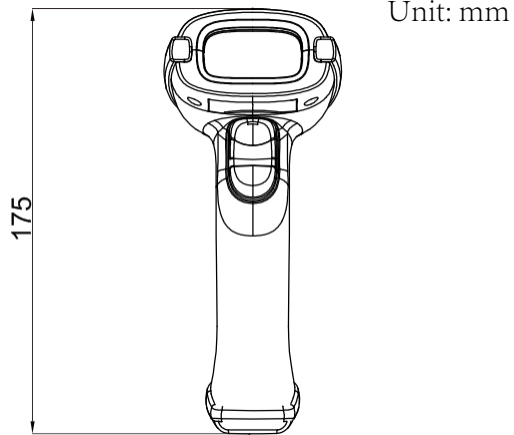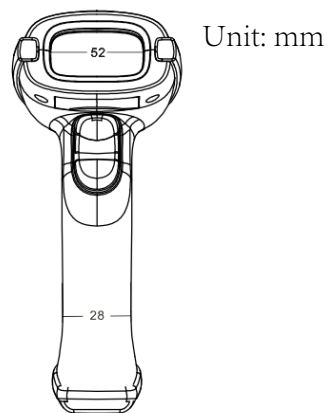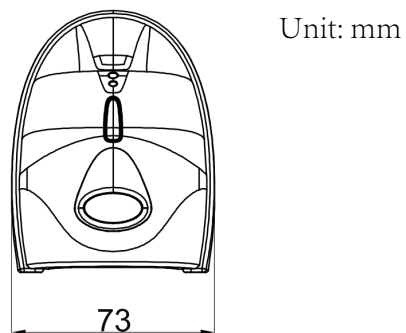
Fig. 1-9

Scanning Instructions

When the XL-626 scanner is in the Manual mode, you can follow the steps below to scan a barcode:

1. Hold down the trigger. Then the scanner will project a red aiming beam.

2. Aim the red beam across the center of barcode, as shown in Fig.1-10.

3. Release the trigger when the red beam goes off. For a successful read, the scanner will beep and send the decoded data to the Host.

Note: For barcodes of the same batch, the scanner keeps a very high success ratio in certain distance which is regarded as the optimal scanning distance.
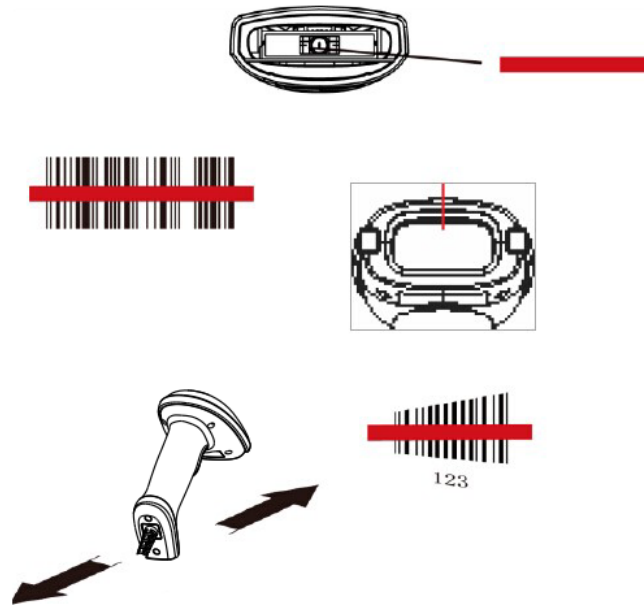
Fig. 1-10

Scan Angle

The scanner is designed to function within a certain range of scan angles. Any unreasonable deviation may cause decoding failure.

Scan angles of the scanner:

✧ Pitch : ±60°, 0° Roll and 0° Skew (Fig. 1-11)

✧ Roll   : ±30°, 0° Pitch and 0° Skew (Fig. 1-12)

✧ Skew: ±60°, 0° Roll and 0° Pitch (Fig. 1-13)

傾斜角度
(Pitch)

Fig. 1-11

旋转角度
(Roll)

Fig. 1-12

偏斜角度
(Skew)
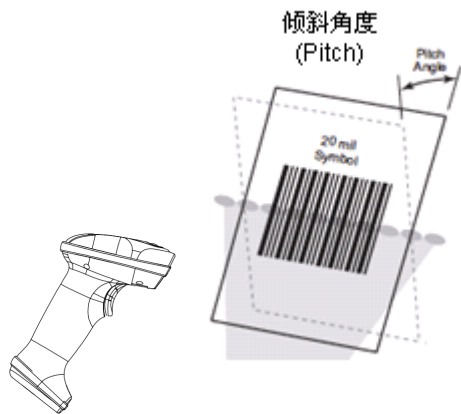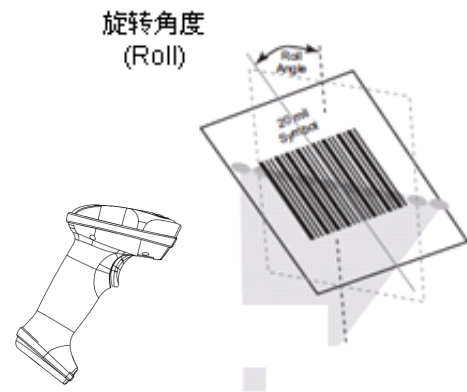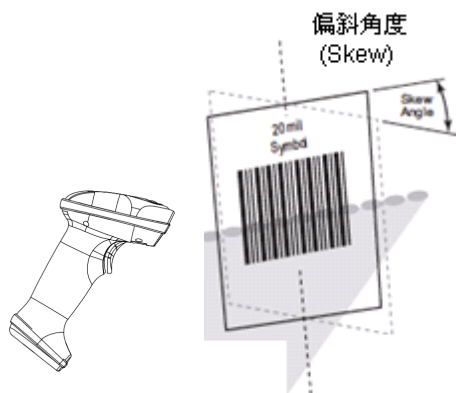
Fig. 1-13

Chapter 2 System Settings

Introduction

There are two ways to configure the scanner: barcode programming and command programming.

Barcode Programming

The scanner can be configured by scanning programming barcodes. All user programmable features/options are described along with their programming barcodes/commands in the following sections.
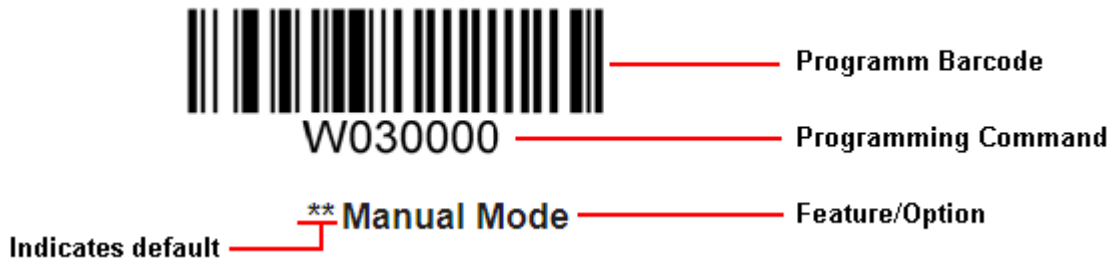
Command Programming

Besides the barcode programming method, the scanner can also be configured by serial commands sent from the host device. Note that communication parameters on the scanner and the host must match so that two devices can communicate with each other. The default settings of the scanner are 9600bps, no parity check, 8 data bits, 1 stop bit, and no flow control. The scanner uses 8-bit registers.

Read Register

The read register command is used to read the contents of 1 to 256 contiguous registers in the scanner.

Syntax: {Prefix1} {Types} {Lens} {Address} {Datas} {FCS}

> Prefix1 : 0x7E 0x00 (2 bytes)
>
> Types : 0x07 (1 byte)
>
> Lens : 0x01 (1 byte).
>
> Address: 0x0000~0xFFFF (2 bytes), starting register address.
>
> Datas : 0x00~0xFF (1 byte), number of registers to be read. When Datas=0x00, 256 contiguous registers are to be read.
>
> FCS : CRC-CCITT checksum (2 bytes)
> Computation sequence: Types+ Lens+Address+Datas;
> polynomial: $X^{16}+X^{12}+X^5+1$(0x1021), initial value: 0x0000.
>
> The following C language program is provided for reference.

```c
unsigned int crc_cal_by_bit(unsigned char* ptr, unsigned int len)
{
unsigned int crc = 0;
while(len-- != 0)
{
for(unsigned char i = 0x80; i != 0; i /= 2)
{
crc *= 2;
if((crc&0x10000) !=0)
crc ^= 0x11021;
if((*ptr&i) != 0)
crc ^= 0x1021;
}
ptr++;
}
return crc;
}
```

Reply: {Prefix2} {Types} {Lens} {Datas} {FCS}

1) Success message:

      Prefix2 :   0x02 0x00

      Types :   0x00 (success)

      Lens   :   Byte count of Datas returned. If Lens=0x00, that means values of 256 contiguous registers are returned.

      Datas :   0x00~0xFF, data that are returned.

      FCS   :   CRC-CCITT checksum.

2) FCS error message:

      Prefix2 :   0x02 0x00

      Types :   0x01 (incorrect FCS)

      Lens   :   0x01

      Datas :   0x00

      FCS   :   0x04 0x01 (CRC-CCITT checksum)

3) Invalid command message (Command starting with 0x7e 0x00 is shorter than the required length or of wrong type):

      Prefix2 :   0x02 0x00

      Types :   0x03 (invalid command)

      Lens   :   0x01

      Datas :   0x00

      FCS   :   0x6A 0x61 (CRC-CCITT checksum)

Example:

Read the contents (0x35, 0x36, 0x37) of 3 contiguous registers starting from register 0x0005.

1) Read operation succeeds:

Command sent: 0x7e 0x00 0x07 0x01 0x00 0x05 0x03 0xde 0xf6

Message received: 0x02 0x00 0x00 0x03 0x35 0x36 0x37 0x2a 0xba

2) Incorrect FCS:

Command sent: 0x7e 0x00 0x07 0x01 0x00 0x05 0x03 0x33 0x34

Message received: 0x02 0x00 0x01 0x01 0x00 0x04 0x01

3) Invalid command:

Command sent: 0x7e 0x00 0x07 0x01 0x00 0x05 0x03 0x33

Message received: 0x02 0x00 0x03 0x01 0x00 0x6A 0x61

Write Register

The write register command is used to write contiguous registers (1 to 256 registers) in the scanner.

Syntax: {Prefix1} {Types} {Lens} {Address} {Datas} {FCS}

Prefix1 : 0x7E 0x00 (2 bytes)

Types : 0x08 (1 byte)

Lens : 0x00~0xFF (1 byte), byte count, i.e. number of registers written. When Lens=0x00, 256 contiguous registers are to be written.

Address : 0x0000~0xFFFF (2 bytes), starting register address.

Datas : 0x00~0xFF (1~256 bytes), data to be written into the register(s)

FCS : CRC-CCITT checksum (2 bytes).
Computation sequence: Types+ Lens+Address+Datas;
polynomial: $X^{16}+X^{12}+X^5+1$ (0x1021), initial value: 0x0000.

The following C language program is provided for reference.

```
unsigned int crc_cal_by_bit(unsigned char* ptr, unsigned int len)
{
unsigned int crc = 0;
while(len-- != 0)
{
for(unsigned char i = 0x80; i != 0; i /= 2)
{
crc *= 2;
if((crc&0x10000) !=0)
crc ^= 0x11021;
if((*ptr&i) != 0)
crc ^= 0x1021;
}
ptr++;
}
return crc;
}
```

Reply: {Prefix2} {Types} {Lens} {Datas} {FCS}

1) Success message:

Prefix2 :   0x02 0x00

Types   :   0x00 (success)

Lens   :   0x01

Datas   :   0x00

FCS   :   0x33 0x31 (CRC-CCITT checksum)

2) FCS error message:

Prefix2 :   0x02 0x00

Types   :   0x01 (incorrect FCS)

Lens   :   0x01

Datas   :   0x00

FCS   :   0x04 0x01 (CRC-CCITT checksum)

3) Invalid command message (Command starting with 0x7e 0x00 is shorter than the required length or of wrong type):

Prefix2 :   0x02 0x00

Types   :   0x03 (invalid command)

Lens   :   0x01

Datas   :   0x00

FCS   :   0x6A 0x61 (CRC-CCITT checksum)

Example:

Write 0x31, 0x32, 0x33, 0x34 into 4 contiguous registers starting from register 0x000a.

1) Write operation succeeds:

Command sent: 0x7e 0x00 0x08 0x04 0x00 0x26 0x31 0x32 0x33 0x34 0xcd 0xa4

Message received: 0x02 0x00 0x00 0x01 0x00 0x33 0x31

2) Incorrect FCS:

Command sent: 0x7e 0x00 0x08 0x04 0x00 0x26 0x31 0x32 0x33 0x34 0x33 0x34

Message received: 0x02 0x00 0x01 0x01 0x00 0x04 0x01

3) Invalid command:

Command sent: 0x7e 0x00 0x08 0x04 0x00 0x26 0x31 0x32 0x33 0x34 0x33

Message received: 0x02 0x00 0x03 0x01 0x00 0x6A 0x61

Enable/Disable EEPROM Write

By default, EEPROM write is disabled after the device is powered up. You need to enable it before a write operation and recommendedly disable it afterwards to prevent miswriting.

Syntax: {Prefix1} {Types} {Lens} {Address} {Datas} {FCS}

> Prefix1 : 0x7E 0x00
>
> Types   :   0x03 (EEPROM write enable)/ 0x00 (EEPROM write disable)
>
> Lens   :   Byte count of Datas, 0x01 recommended.
>
> Address :   No specific significance.
>
> Datas   :   No specific significance.
>
> FCS   :   CRC-CCITT checksum (2 bytes).
>   Computation sequence: Types+ Lens+Address+Datas;
>   polynomial: $X^{16}+X^{12}+X^5+1$ (0x1021), initial value: 0x0000.
>
>   The following C language program is provided for reference.

```c
unsigned int crc_cal_by_bit(unsigned char* ptr, unsigned int len)
{
unsigned int crc = 0;
while(len-- != 0)
{
for(unsigned char i = 0x80; i != 0; i /= 2)
{
crc *= 2;
if((crc&0x10000) !=0)
crc ^= 0x11021;
if((*ptr&i) != 0)
crc ^= 0x1021;
}
ptr++;
}
return crc;
}
```

Reply: {Prefix2} {Types} {Lens} {Datas} {FCS}

1) Success message:

    Prefix2 :   0x02 0x00

    Types :   0x00 (success)

    Lens   :   0x01

    Datas :   0x00

    FCS   :   0x33 0x31 (CRC-CCITT checksum)

2) FCS error message:

    Prefix2 :   0x02 0x00

    Types :   0x01 (incorrect FCS)

    Lens   :   0x01

    Datas :   0x00

    FCS   :   0x04 0x01 (CRC-CCITT checksum)

3) Invalid command message (Command starting with 0x7e 0x00 is shorter than the required length or of wrong type):

    Prefix2 :   0x02 0x00

    Types :   0x03 (invalid command)

    Lens   :   0x01

    Datas :   0x00

    FCS   :   0x6A 0x61 (CRC-CCITT checksum)

Write EEPROM

The scanner has 512 bytes of EEPROM. The EEPROM write command is used to write data to up to 256 addresses. You need to enable EEPROM write before a write operation and recommendedly disable it afterwards to prevent miswriting. Note that writing without enabling it first will not return any error message. So it is recommended to implement EEPROM read operation after every write for verification.

Syntax: {Prefix1} {Types} {Lens} {Address} {Datas} {FCS}

Prefix1 : 0x7E 0x00

Types : 0x04

Lens   : 0x00~0xFF, byte count of Datas. When Lens=0x00, 256 bytes are to be written.

Address : 0x0000~0xFFFF, starting address to write data to.

Datas   : 0x00~0xFF, data to be written into the EEPROM

FCS   : CRC-CCITT checksum (2 bytes).
　　　　　Computation sequence: Types+ Lens+Address+Datas;
　　　　　polynomial: $X^{16}+X^{12}+X^5+1$ (0x1021), initial value: 0x0000.

　　　　　The following C language program is provided for reference.

```
unsigned int crc_cal_by_bit(unsigned char* ptr, unsigned int len)
{
unsigned int crc = 0;
while(len-- != 0)
{
for(unsigned char i = 0x80; i != 0; i /= 2)
{
crc *= 2;
if((crc&0x10000) !=0)
crc ^= 0x11021;
if((*ptr&i) != 0)
crc ^= 0x1021;
}
ptr++;
}
return crc;
}
```

Reply: {Prefix2} {Types} {Lens} {Datas} {FCS}

1) Success message:

    Prefix2 : 0x02 0x00

    Types : 0x00 (success)

    Lens   : 0x01

    Datas : 0x00

    FCS   : 0x33 0x31 (CRC-CCITT checksum)

2) FCS error message:

    Prefix2 : 0x02 0x00

    Types : 0x01 (incorrect FCS)

    Lens   : 0x01

    Datas : 0x00

    FCS   : 0x04 0x01 (CRC-CCITT checksum)

3) EERPOM not responding message:

    Prefix2 : 0x02 0x00

    Types : 0x02 (EEPROM not responding)

    Lens   : 0x01

    Datas : 0x00

    FCS   : 0x5d 0x51 (CRC-CCITT checksum)

4) Invalid command message (Command starting with 0x7e 0x00 is shorter than the required length or of wrong type):

    Prefix2 : 0x02 0x00

    Types : 0x03 (invalid command)

    Lens   : 0x01

    Datas : 0x00

    FCS   : 0x6A 0x61 (CRC-CCITT checksum)

Example:

Write 0x51, 0x52, 0x53, 0x54 into 4 contiguous addresses starting from address 0x0000.

1) Write operation succeeds:

Command sent: 0x7e 0x00 0x04 0x04 0x00 0x00 0x51 0x52 0x53 0x54 0xbc 0x17

Message received: 0x02 0x00 0x00 0x01 0x00 0x33 0x31

2) Incorrect FCS:

Command sent: 0x7e 0x00 0x04 0x03 0x00 0x00 0x51 0x52 0x53 0x54 0x33 0x34

Message received: 0x02 0x00 0x01 0x01 0x00 0x04 0x01

Read EEPROM

The scanner has 512 bytes of EEPROM. The EEPROM read command is used to read the contents from 1 to 256 contiguous addresses of the EEPROM.

Syntax: {Prefix1} {Types} {Lens} {Address} {Datas} {FCS}

   Prefix1 :   0x7E 0x00

   Types   :   0x05

   Lens   :   0x01

   Address: 0x0000~0xFFFF (2 bytes), starting EEPROM address to read.

   Datas   :   0x00~0xFF, number of EEPROM addresses to be read. When Datas=0x00, 256 contiguous addresses are to be read.

   FCS   :   CRC-CCITT checksum (2 bytes)
             Computation sequence: Types+ Lens+Address+Datas;
             polynomial: $X^{16}+X^{12}+X^5+1$(0x1021), initial value: 0x0000.

   The following C language program is provided for reference.

```c
unsigned int crc_cal_by_bit(unsigned char* ptr, unsigned int len)
{
unsigned int crc = 0;
while(len-- != 0)
{
for(unsigned char i = 0x80; i != 0; i /= 2)
{
crc *= 2;
if((crc&0x10000) !=0)
crc ^= 0x11021;
if((*ptr&i) != 0)
crc ^= 0x1021;
}
ptr++;
}
return crc;
}
```

Reply: {Prefix2} {Types} {Lens} {Datas} {FCS}

1) Success message:

    Prefix2 :   0x02 0x00

    Types   :   0x00 (success)

    Lens   :   Byte count of Datas returned.

    Datas   :   0x00~0xFF, data that are returned.

    FCS   :   CRC-CCITT checksum.

2) FCS error message:

    Prefix2 :   0x02 0x00

    Types   :   0x01 (incorrect FCS)

    Lens   :   0x01

    Datas   :   0x00

    FCS   :   0x04 0x01 (CRC-CCITT checksum)

3) EERPOM not responding message:

    Prefix2 :   0x02 0x00

    Types   :   0x02 (EEPROM not responding)

    Lens   :   0x01

    Datas   :   0x00

    FCS   :   0x5d 0x51 (CRC-CCITT checksum)

4) Invalid command message (Command starting with 0x7e 0x00 is shorter than the required length or of wrong type):

    Prefix2 :   0x02 0x00

    Types   :   0x03 (invalid command)

    Lens   :   0x01

    Datas   :   0x00

    FCS   :   0x6A 0x61 (CRC-CCITT checksum)

Example:

Read the contents (0x35 0x36 0x37) of 3 contiguous EEPROM addresses starting from address 0x0005.

1) Read operation succeeds:

Command sent: 0x7e 0x00 0x05 0x01 0x00 0x05 0x03 0x9a 0x75

Message received: 0x02 0x00 0x00 0x03 0x35 0x36 0x37 0x2a 0xba

2) Incorrect FCS:

Command sent: 0x7e 0x00 0x05 0x01 0x00 0x05 0x03 0x33 0x34

Message received: 0x02 0x00 0x01 0x01 0x00 0x04 0x01

Registers

Register	0x0000
Bit	**Feature**
Bit 7	Reserved
Bit 6	1: Silent Mode Off 0: Silent Mode On
Bit 5-4	Reserved
Bit 3-2	Illumination: 00: Off 01: On When Scanning 10/11: Always On
Bit 1-0	Scan Mode: 00: Manual Mode 01: Command Trigger Mode 10: Continuous Mode 11: Sense Mode

Register	0x0003
Bit	**Feature**
Bit 7-0	Sensitivity 0x00~0xFF: 0-255 levels. The smaller the value, the higher the sensitivity.

Register	0x0004
Bit	**Feature**
Bit 7-0	Image Stabilization Timeout 0x00-0xFF: 0.0-25.5s

Register	0x0005
Bit	**Feature**
Bit 7-0	Timeout between Decodes 0x00-0xFF: 0.0-25.5s

Register	0x0006
Bit	**Feature**
Bit 7-0	Decode Session Timeout 0x00: Infinite time; 0x01-0xFF: 1-255s

Register	0x0007
Bit	**Feature**
Bit 7-0	Timeout between Decodes (Same Barcode) 0x00: Infinite time; 0x01-0xFF: 0.1-25.5s

Register	0x0009			
Bit	**Feature**			
Bit 7-5	Reserved			
Bit 4	0: Serial Communication			
Bit 3-2	Reserved			
Bit 1-0	00: USB DataPipe 01: USB HID-KBW 10: USB COM Port Emulation 11: USB HID-POS			

Register	0x000A
Bit	**Feature**
Bit 7-5	Reserved
Bit 4	0: Allow Rereading Same Barcode 1: Disallow Rereading Same Barcode
Bit 3-2	Reserved
Bit 1-0	Security Level 00-03: 0-3 level. The higher the value, the lower the error rate and efficiency.

Register	0x000F
Bit	**Feature**
Bit 7-3	Reserved
Bit 2-1	00: Do Not Transmit Programming Barcode Data 11: Transmit Programming Barcode Data
Bit 0	0: Exit Setup 1: Enter Setup

Register	0x0010
Bit	**Feature**
Bit 7-0	Good Read Beep Frequency 0xDA: Low 0x4B: Medium 0x25: High

Register	0x0011
Bit	**Feature**
Bit 7-0	Good Read Beep Duration 0x1F: 40ms 0x3E: 80ms 0x5D: 120ms

Register	0x0012
Bit	**Feature**
Bit 7-3	Reserved
Bit 2	1: Good Read Beep On 0: Good Read Beep Off
Bit 1-0	Reserved

Register	0x0019
Bit	**Feature**
Bit 7-0	USB Country Keyboard Types 00: U.S.　　01: Belgium　　02: Brazil 03: Canada　　04: Czech　　05: Denmark 06: Finland　　07: France　　08: Austria 09: Greece　　0A: Hungary　　0B: Israel 0C: Italy　　0D: Latin America　　0E: Netherland 0F: Norway　　10: Poland　　11: Portugal 12: Romania　　13: Russia　　15: Slovakia 16: Spain　　17: Sweden　　18: Switzerland 19: Turkey1　　1A: Turkey2　　1B: UK 1C: Japan

Register	0x001A
Bit	**Feature**
Bit 7-6	Inter-keystroke delay 00: No delay　　01: Short delay (5ms) 10: Medium delay (10ms)　　11: Long delay (15ms)
Bit 5-3	Convert case 000: No Case Conversion　　001: Invert Upper and Lower Case Characters 100/101: Convert All to Upper Case　　110/111: Convert All to Lower Case
Bit 2	1: Emulate Numeric Keypad　　0: Do Not Emulate Numeric Keypad
Bit 1-0	00: Standard Keyboard　　01: Function Key Mapping　　10/11: Emulate ALT+Keypad

Register	0x0029		
Bit	**Feature**		
Bit 7-4	Reserved		
Bit 3	1: 8 Data Bits	0: 7 Data Bits	
Bit 2-1	Parity Check		
	00/01: None	10: Odd	11: Even
Bit 0	1: 2 Stop Bits	0: 1 Stop Bit	
Register	0x002B, 0x2A		
Bit	**Feature**		
Bit 15-13	Reserved		
Bit 12-0	0x09C4: Baud Rate 1200		
	0x04E2: Baud Rate 2400		
	0x0271: Baud Rate 4800		
	0x0139: Baud Rate 9600		
	0x00D0: Baud Rate 14400		
	0x009C: Baud Rate 19200		
	0x004E: Baud Rate 38400		
	0x0034: Baud Rate 57600		
	0x001A: Baud Rate 115200		
Register	0x0031		
Bit	**Feature**		
Bit 7-6	Reserved		
Bit 5	1: Enable Decode Result Notification	0: Disable Decode Result Notification	
Bit 4	1: Enable Terminating Character Suffix	0: Disable Terminating Character Suffix	
Bit 3	1: Enable Custom Suffix	0: Disable Custom Suffix	
Bit 2	1: Enable Custom Prefix	0: Disable Custom Prefix	
Bit 1	1: Enable CODE ID Prefix	0: Disable CODE ID Prefix	
Bit 0	Prefix Sequence		
	1: Custom+Code ID+ AIM ID	0: Code ID+Custom+AIM ID	

Register	0x0037-0x33
Bit	**Feature**
Bit 39-0	Set Custom Prefix

Register	0x0042-0x3E
Bit	**Feature**
Bit 39-0	Set Custom Suffix

Register	0x004D-0x49
Bit	**Feature**
Bit 39-0	Set Terminating Character Suffix

Register	0x0061
Bit	**Feature**
Bit 7-1	Reserved
Bit 0	1: Enable Code 128 0: Disable Code 128

Register	0x0062
Bit	**Feature**
Bit 7-2	Reserved
Bit 1-0	00: Disable UCC/EAN 128 01: Decode as Code 128 10/11: Enable UCC/EAN 128

Register	0x0063
Bit	**Feature**
Bit 7-2	Reserved
Bit 1-0	00: Disable AIM 128 01: Decode as Code 128 10/11: Enable AIM 128

Register	0x0065
Bit	**Feature**
Bit 7-6	EAN-8 Extension 00: Disable EAN-8 Zero Extend 01: Enable EAN-8 Zero Extend 10/11: Convert EAN-8 to EAN-13
Bit 5	1: Enable EAN-8 5-digit Add-on Code 0: Disable EAN-8 5-digit Add-on Code
Bit 4	1: Enable EAN-8 2-digit Add-on Code 0: Disable EAN-8 2-digit Add-on Code
Bit 3	1: EAN-8 Add-on Code Required 0: EAN-8 Add-on Code Not Required
Bit 2	1: Transmit EAN-8 Check Digit 0: Do Not Transmit EAN-8 Check Digit
Bit 1	Reserved
Bit 0	1: Enable EAN-8 0: Disable EAN-8

Register	0x0066	
Bit	**Feature**	
Bit 7-6	Reserved	
Bit 5	1: Enable EAN-13 5-digit Add-on Code	0: Disable EAN-13 5-digit Add-on Code
Bit 4	1: Enable EAN-13 2-digit Add-on Code	0: Disable EAN-13 2-digit Add-on Code
Bit 3	1: EAN-13 Add-on Code Required	0: EAN-13 Add-on Code Not Required
Bit 2	1: Transmit EAN-13 Check Digit	0: Do Not Transmit EAN-13 Check Digit
Bit 1	Reserved	
Bit 0	1: Enable EAN-13	0: Disable EAN-13
Register	0x0067	
Bit	**Feature**	
Bit 7-2	Reserved	
Bit 1-0	00: Disable ISSN 01: Decode as EAN-13 10/11: Enable ISSN	
Register	0x0068	
Bit	**Feature**	
Bit 7-3	Reserved	
Bit 2	ISBN Format 1: ISBN-10 0: ISBN-13	
Bit 1-0	00: Disable ISBN 01: Decode as EAN-13 10/11: Enable ISBN	
Register	0x0069	
Bit	**Feature**	
Bit 7-6	UPC-E Extension 00: Disable UPC-E extend 01: Enable UPC-E extend 10/11: Convert UPC-E to UPC-A	
Bit 5	1: Enable UPC-E 5-digit Add-on Code	0: Disable UPC-E 5-digit Add-on Code
Bit 4	1: Enable UPC-E 2-digit Add-on Code	0: Disable UPC-E 2-digit Add-on Code
Bit 3	1: UPC-E Add-on Code Required	0: UPC-E Add-on Code Not Required
Bit 2	1: Transmit UPC-E Check Digit	0: Do Not Transmit UPC-E Check Digit
Bit 1	Reserved	
Bit 0	1: Enable UPC-E	0: Disable UPC-E

Register	0x006A	
Bit	**Feature**	
Bit 7-6	Reserved	
Bit 5-4	UPC-E System Character 01: Do not transmit system character 10/11: Transmit system character	
Bit 3-2	Reserved	
Bit 1-0	UPC-A Preamble Character 00: No Preamble 01: System Character 10/11: System Character & Country Code	
Register	0x006B	
Bit	**Feature**	
Bit 7	Reserved	
Bit 6	1: Enable UPC-A 5-digit Add-on Code 0: Disable UPC-A 5-digit Add-on Code	
Bit 5	1: Enable UPC-A 2-digit Add-on Code 0: Disable UPC-A 2-digit Add-on Code	
Bit 4	1: UPC-A Add-on Code Required 0: UPC-A Add-on Code Not Required	
Bit 3	1: Transmit UPC-A Check Digit 0: Do Not Transmit UPC-A Check Digit	
Bit 2	Reserved	
Bit 1-0	00: Disable UPC-A 01: Decode as EAN-13 10/11: Enable UPC-A	
Register	0x006C	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Interleaved 2 of 5 Check Digit 0: Do Not Transmit Interleaved 2 of 5 Check Digit	
Bit 2	1: Enable Interleaved 2 of 5 Check Digit 0: Disable Interleaved 2 of 5 Check Digit	
Bit 1	Reserved	
Bit 0	1: Enable Interleaved 2 of 5 0: Disable Interleaved 2 of 5	
Register	0x006D	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit ITF-6 Check Digit 0: Do Not Transmit ITF-6 Check Digit	
Bit 2	Reserved	
Bit 1-0	00: Disable ITF-6 01: Decode as Interleaved 2 of 5 10/11: Enable ITF-6	

Register	0x006E	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit ITF-14 Check Digit	0: Do Not Transmit ITF-14 Check Digit
Bit 2	Reserved	
Bit 1-0	00: Disable ITF-14 01: Decode as Interleaved 2 of 5 10/11: Enable ITF-14	

Register	0x006F	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Deutsche 14 Check Digit	0: Do Not Transmit Deutsche 14 Check Digit
Bit 2	Reserved	
Bit 1-0	00: Disable Deutsche 14 01: Decode as Interleaved 2 of 5 10/11: Enable Deutsche 14	

Register	0x0070	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Deutsche 12 Check Digit	0: Do Not Transmit Deutsche 12 Check Digit
Bit 2	Reserved	
Bit 1-0	00: Disable Deutsche 12 01: Decode as Interleaved 2 of 5 10/11: Enable Deutsche 12	

Register	0x0071	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Matrix 2 of 5 Check Digit	0: Do Not Transmit Matrix 2 of 5 Check Digit
Bit 2	1: Enable Matrix 2 of 5 Check Digit	0: Disable Matrix 2 of 5 Check Digit
Bit 1	Reserved	
Bit 0	1: Enable Matrix 2 of 5	0: Disable Matrix 2 of 5

Register	0x0072	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Industrial 25 Check Digit	0: Do Not Transmit Industrial 25 Check Digit
Bit 2	1: Enable Industrial 25 Check Digit	0: Disable Industrial 25 Check Digit
Bit 1	Reserved	
Bit 0	1: Enable Industrial 25	0: Disable Industrial 25

Register	0x0073
Bit	**Feature**
Bit 7-4	Reserved
Bit 3	1: Transmit Standard 25 Check Digit 0: Do Not Transmit Standard 25 Check Digit
Bit 2	1: Enable Standard 25 Check Digit 0: Disable Standard 25 Check Digit
Bit 1	Reserved
Bit 0	1: Enable Standard 25 0: Disable Standard 25

Register	0x0074
Bit	**Feature**
Bit 7-6	Reserved
Bit 5	1: Enable Code 39 Full ASCII 0: Disable Code 39 Full ASCII
Bit 4	1: Transmit Code 39 Check Digit 0: Do Not Transmit Code 39 Check Digit
Bit 3	1: Enable Code 39 Check Digit 0: Disable Code 39 Check Digit
Bit 2	1: Transmit Code 39 Start/Stop Characters 0: Do Not Transmit Code 39 Start/Stop Characters
Bit 1	Reserved
Bit 0	1: Enable Code 39 0: Disable Code 39

Register	0x0075
Bit	**Feature**
Bit 7	Reserved
Bit 6	1: Transmit Codabar Check Digit 0: Do Not Transmit Codabar Check Digit
Bit 5	1: Enable Codabar Check Digit 0: Disable Codabar Check Digit
Bit 4-3	Codabar Start/Stop Character Format: 00: ABCD/ABCD 01: ABCD/TN*E 10: abcd/abcd 11: abcd/tn*e
Bit 2	1: Transmit Codabar Start/Stop Characters 0: Do Not Transmit Codabar Start/Stop Characters
Bit 1	Reserved
Bit 0	1: Enable Codabar 0: Disable Codabar

Register	0x0076	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Code 93 Check Digit	0: Do Not Transmit Code 93 Check Digit
Bit 2	1: Enable Code 93 Check Digit	0: Disable Code 93 Check Digit
Bit 1	Reserved	
Bit 0	1: Enable Code 93	0: Disable Code 93

Register	0x0077	
Bit	**Feature**	
Bit 7-6	Reserved	
Bit 5	1: Transmit Code 11 Check Digit	0: Do Not Transmit Code 11 Check Digit
Bit 4-2	Code 11 Check Digit Verification: 000: Disable 001: One Check Digit, MOD11 010: Two Check Digits, MOD11/MOD11 011: Two Check Digits, MOD11/MOD9 100: One Check Digit, MOD11 (Len <= 11); Two Check Digits, MOD11/MOD11 (Len > 11) 101: One Check Digit, MOD11 (Len <= 11); Two Check Digits, MOD11/MOD9 (Len > 11)	
Bit 1	Reserved	
Bit 0	1: Enable Code 11	0: Disable Code 11

Register	0x0078	
Bit	**Feature**	
Bit 7-4	Reserved	
Bit 3	1: Transmit Plessey Check Digit	0: Do Not Transmit Plessey Check Digit
Bit 2	1: Enable Plessey Check Digit	0: Disable Plessey Check Digit
Bit 1	Reserved	
Bit 0	1: Enable Plessey	0: Disable Plessey

Register	0x0079
Bit	**Feature**
Bit 7-5	Reserved
Bit 4	1: Transmit MSI-Plessey Check Digit 0: Do Not Transmit MSI-Plessey Check Digit
Bit 3-2	MSI-Plessey Check Digit Verification: 00: Disable 01: One Check Digit, MOD10 10: Two Check Digits, MOD10/MOD10 11: Two Check Digits, MOD10/MOD11
Bit 1	Reserved
Bit 0	1: Enable MSI-Plessey 0: Disable MSI-Plessey

Register	0x007A
Bit	**Feature**
Bit 7-3	Reserved
Bit 2	1: Transmit RSS-14 Application Identifier 0: Do Not Transmit RSS-14 Application Identifier
Bit 1	Reserved
Bit 0	1: Enable RSS-14 0: Disable RSS-14

Register	0x007B
Bit	**Feature**
Bit 7-3	Reserved
Bit 2	1: Transmit RSS-Limited Application Identifier 0: Do Not Transmit RSS-Limited Application Identifier
Bit 1	Reserved
Bit 0	1: Enable RSS-Limited 0: Disable RSS-Limited

Register	0x007C
Bit	**Feature**
Bit 7-1	Reserved
Bit 0	1: Enable RSS-Expand 0: Disable RSS-Expand

Register	0x0080
Bit	**Feature**
Bit 7-0	Set Code 128 Maximum Length
Register	0x0081
Bit	**Feature**
Bit 7-0	Set Code 128 Minimum Length
Register	0x0082
Bit	**Feature**
Bit 7-0	Set UCC/EAN-128 Maximum Length
Register	0x0083
Bit	**Feature**
Bit 7-0	Set UCC/EAN-128 Minimum Length
Register	0x0084
Bit	**Feature**
Bit 7-0	Set AIM 128 Maximum Length
Register	0x0085
Bit	**Feature**
Bit 7-0	Set AIM 128 Minimum Length
Register	0x0086
Bit	**Feature**
Bit 7-0	Set Interleaved 2 of 5 Maximum Length
Register	0x0087
Bit	**Feature**
Bit 7-0	Set Interleaved 2 of 5 Minimum Length
Register	0x0088
Bit	**Feature**
Bit 7-0	Set Matrix 2 of 5 Maximum Length
Register	0x0089
Bit	**Feature**
Bit 7-0	Set Matrix 2 of 5 Minimum Length

Register	0x008A
Bit	**Feature**
Bit 7-0	Set Industrial 25 Maximum Length

Register	0x008B
Bit	**Feature**
Bit 7-0	Set Industrial 25 Minimum Length

Register	0x008C
Bit	**Feature**
Bit 7-0	Set Standard 25 Maximum Length

Register	0x008D
Bit	**Feature**
Bit 7-0	Set Standard 25 Minimum Length

Register	0x008E
Bit	**Feature**
Bit 7-0	Set Code 39 Maximum Length

Register	0x008F
Bit	**Feature**
Bit 7-0	Set Code 39 Minimum Length

Register	0x0090
Bit	**Feature**
Bit 7-0	Set Codabar Maximum Length

Register	0x0091
Bit	**Feature**
Bit 7-0	Set Codabar Minimum Length

Register	0x0092
Bit	**Feature**
Bit 7-0	Set Code 93 Maximum Length

Register	0x0093
Bit	**Feature**
Bit 7-0	Set Code 93 Minimum Length

Register	0x0094
Bit	**Feature**
Bit 7-0	Set Code 11 Maximum Length
Register	0x0095
Bit	**Feature**
Bit 7-0	Set Code 11 Minimum Length
Register	0x0096
Bit	**Feature**
Bit 7-0	Set Plessey Maximum Length
Register	0x0097
Bit	**Feature**
Bit 7-0	Set Plessey Minimum Length
Register	0x0098
Bit	**Feature**
Bit 7-0	Set MSI-Plessey Maximum Length
Register	0x0099
Bit	**Feature**
Bit 7-0	Set MSI-Plessey Minimum Length
Register	0x00A1, 0x00A0
Bit	**Feature**
Bit 15-0	Set Code 128 Code ID ASCII value of one or two English letters (lower or upper case)
Register	0x00A3, 0x00A2
Bit	**Feature**
Bit 15-0	Set UCC/EAN-128 Code ID ASCII value of one or two English letters (lower or upper case)
Register	0x00A5, 0x00A4
Bit	**Feature**
Bit 15-0	Set AIM 128 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00A9, 0x00A8
Bit	**Feature**
Bit 15-0	Set EAN-8 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00AB, 0x00AA
Bit	**Feature**
Bit 15-0	Set EAN-13 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00AD, 0x00AC
Bit	**Feature**
Bit 15-0	Set ISSN Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00B1, 0x00B0
Bit	**Feature**
Bit 15-0	Set UPC-E Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00B3, 0x00B2
Bit	**Feature**
Bit 15-0	Set UPC-A Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00B5, 0x00B4
Bit	**Feature**
Bit 15-0	Set Interleaved 2 of 5 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00B7, 0x00B6
Bit	**Feature**
Bit 15-0	Set ITF-6 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00B9, 0x00B8
Bit	**Feature**
Bit 15-0	Set ITF-14 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00BB, 0x00BA
Bit	**Feature**
Bit 15-0	Set Deutsche 14 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00BD, 0x00BC
Bit	**Feature**
Bit 15-0	Set Deutsche 12 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00BF, 0x00BE
Bit	**Feature**
Bit 15-0	Set Matrix 2 of 5 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00C1, 0x00C0
Bit	**Feature**
Bit 15-0	Set Industrial 25 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00C3, 0x00C2
Bit	**Feature**
Bit 15-0	Set Standard 25 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00C5, 0x00C4
Bit	**Feature**
Bit 15-0	Set Code 39 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00C7, 0x00C6
Bit	**Feature**
Bit 15-0	Set Codabar Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00C9, 0x00C8
Bit	**Feature**
Bit 15-0	Set Code 93 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00CB, 0x00CA
Bit	**Feature**
Bit 15-0	Set Code 11 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00CD, 0x00CC
Bit	**Feature**
Bit 15-0	Set Plessey Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00CF, 0x00CE
Bit	**Feature**
Bit 15-0	Set MSI-Plessey Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00D1, 0x00D0
Bit	**Feature**
Bit 15-0	Set RSS-14 Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00D3, 0x00D2
Bit	**Feature**
Bit 15-0	Set RSS-Limited Code ID ASCII value of one or two English letters (lower or upper case)

Register	0x00D5, 0x00D4
Bit	**Feature**
Bit 15-0	Set RSS-Expand Code ID ASCII value of one or two English letters (lower or upper case)

Enable/Disable Barcode Programming

Scanning the **Enter Setup**/**Exit Setup** barcode can enable/disable barcode programming. After barcode programming is enabled, you can scan a number of programming barcodes to configure your scanner.

Barcode programming is on by default. In real application, programming barcodes hardly overlap with non-programming barcodes, so it is unnecessary to disable barcode programming each time you finish the configuration.

Programming Barcode Data

Programming barcode data (e.g. WFFD980) can be transmitted to the Host. To enable this feature, scan the appropriate barcode below. By default, the scanner does not transmit programming barcode data.

When the scanner is powered down or rebooted, this feature will be automatically disabled (i.e. the scanner does not transmit programming barcode data).

||||||||||||||||||||
W060F06

Transmit Programming Barcode Data

||||||||||||||||||||
W060F00

** Do Not Transmit Programming Barcode Data

Factory Defaults

Scanning the following barcode can restore the scanner to the factory defaults.

You may need to reset your scanner when:

1. scanner is not properly configured so that it fails to decode barcodes;

2. you forget previous configuration and want to avoid its impact;

3. functions that are rarely used have been enabled for the time being.

WFFD980

Restore All Factory Defaults

Scan Mode

Manual Mode

Manual Mode (default): A trigger pull activates a decode session. The decode session continues until the barcode is decoded or the trigger is released or the decode session timeout expires.

|||| ||| ||||| ||||||| ||||||
W030000
** Manual Mode

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.

||| |||| ||||| ||||||| ||| |||
M00031D
Decode Session Timeout

Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Continuous Mode

Continuous Mode: A trigger press activates the scanner to scan and decode at user-specified intervals, i.e. the timeout between decodes. Each decode session lasts until barcode is decoded or the decode session timeout expires. To suspend/resume the operation, simply press the trigger. By default, the scanner rereads same barcode with no delay.

W030002
Continuous Mode

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.

M00031D
Decode Session Timeout

Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Timeout between Decodes:This parameter sets the timeout between decode sessions. When a decode session ends, next session will not happen until the timeout between decodes expires. It is programmable in 0.1s increments from 0.0s to 25.5s. The default timeout is 1.0s.

||||| ||| ||| ||||| |||| ||| |||
M00031C

Timeout between Decodes

Example: Set the timeout between decodes to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes** barcode.
3. Scan the numeric barcodes "5" and "0". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Reread Delay sets the time period before the scanner can read the same barcode a second time. It protects against accidental rereads of the same barcode. This parameter is programmable in 0.1s increments from 0.1s to 25.5s. The default delay is 3.0s. If the parameter is set to 0, the delay is infinite.

Note: This parameter only applies when the **Reread Same Barcode with a Delay** is enabled.

M00031E

Reread Delay

Reread Same Barcode with No Delay: The scanner is allowed to reread same barcode, ignoring the reread delay.

Reread Same Barcode with a Delay: The scanner is not allowed to reread same barcode before the reread delay expires.

To disable rereads of same barcode, enable the **Reread Same Barcode with a Delay** and set the delay to 0.

W100A00

** Reread Same Barcode with No Delay

W100A10

Reread Same Barcode with a Delay

Example: Set the reread delay to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Reread Delay** barcode.
3. Scan the numeric barcodes "5" and "0". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Sense Mode

Sense Mode: The scanner activates a decode session every time when it detects a change in ambient illumination and meets the requirement of the image stabilization timeout. Decode session continues until barcode is decoded or the decode session timeout expires. A trigger pull can also activate a decode session. By default, the scanner rereads same barcode with no delay.

W030003
Sense Mode

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.

M00031D
Decode Session Timeout

Example: Set the decode session timeout to 5s

1.   Scan the **Enter Setup** barcode.
2.   Scan the **Decode Session Timeout** barcode.
3.   Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4.   Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5.   Scan the **Exit Setup** barcode.

Image Stabilization Timeout: The scanner waits for the image stabilization timeout to expire before activating a decode session every time it detects a change in ambient illumination. This parameter is programmable in 0.1s increments from 0.0s to 25.5s. The default timeout is 0.4s.

M00031B
Image Stabilization Timeout

Example: Set the Image Stabilization Timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Image Stabilization Timeout** barcode.
3. Scan the numeric barcodes "5" and "0". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Reread Delay sets the time period before the scanner can read the same barcode a second time. It protects against accidental rereads of the same barcode. This parameter is programmable in 0.1s increments from 0.1s to 25.5s. The default delay is 3.0s. If the parameter is set to 0, the delay is infinite.

Note: This parameter only applies when the **Reread Same Barcode with a Delay** is enabled.

||| ||| ||| ||||| ||| ||| |||
M00031E

Reread Delay

Reread Same Barcode with No Delay: The scanner is allowed to reread same barcode, ignoring the reread delay.

Reread Same Barcode with a Delay: The scanner is not allowed to reread same barcode before the reread delay expires.

To disable rereads of same barcode, enable the **Reread Same Barcode with a Delay** and set the delay to 0.

||| ||| ||||| ||| ||| ||| ||| ||| ||||| ||| ||| |||
W100A00   **W100A10**

** Reread Same Barcode with No Delay   Reread Same Barcode with a Delay**

Example: Set the reread delay to 5s

1.   Scan the **Enter Setup** barcode.

2.   Scan the **Reread Delay** barcode.

3.   Scan the numeric barcodes "5" and "0". (See the **Digit Barcodes** section in Appendix)

4.   Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5.   Scan the **Exit Setup** barcode.

Sensitivity: This parameter specifies the degree of acuteness of the scanner's response to changes in ambient illumination. The higher the sensitivity, the lower requirement in illumination change to trigger the scanner. You can select an appropriate degree of sensitivity that fits the ambient environment.

WFF0305
High Sensitivity

WFF0310
** Medium Sensitivity

WFF0330
** Medium Sensitivity

M00031A
Custom Sensitivity

Sensitivity levels range from 0 to 255. The smaller the number, the higher the sensitivity.

Example: Set the sensitivity level to 10

1. Scan the **Enter Setup** barcode.
2. Scan the **Custom Sensitivity** barcode.
3. Scan the numeric barcodes "1" and "0". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Command Trigger Mode

Command Trigger Mode: Decode session is activated by a host command. The decode session continues until the barcode is decoded or the decode session timeout expires.

||| || ||| ||||||| ||| ||||| |||
W030001
Command Trigger Mode

Decode Session Timeout: This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.

||| || ||| ||||| ||| ||| || |||
M00031D
Decode Session Timeout

Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.

Security Level

This parameter specifies the number of times to decode a barcode during a scan attempt. The higher the security level, the lower the error rate and decoding efficiency.

** Set Security Level to 0

Set Security Level to 1

Set Security Level to 2

Set Security Level to 3

Good Read Beep

W041204

** Good Read Beep On

W041200

Good Read Beep Off

Good Read Beep Frequency

|||| ||| || ||||| |||| |||||
WFF10DA
Low

||| |||| ||| |||| ||| |||||
WFF104B
** Medium

||| ||| |||| ||| |||||
WFF1025
High

Good Read Beep Duration
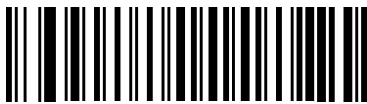
||| ||| || |||| ||| |||||
WFF111F
40ms

||| |||| ||| |||| ||| |||||
WFF113E
**80ms

||| ||| |||| ||| |||||
WFF115D
120ms

Decode Result Notification

When enabled, if a barcode does not decode, "F" is transmitted; if a barcode is decoded, "S" is appended to the barcode data as the most left character.

||||| ||| ||||||| |||||||| ||||
W203120

Enable Decode Result Notification

||| || ||||||||| |||||||| ||||||
W203100

** Disable Decode Result Notification

Other Settings

You can change the following parameter settings temporarily and the changes will be lost when you power down or reboot the scanner.

Silent Mode

||| || |||| ||| ||| ||| |||
W400000
Silent Mode On

||| || |||| ||| ||| ||| |||
W400040
** Silent Mode Off

Note: This feature is only applicable to decode beep and will be automatically disabled when the scanner is powered down or rebooted.

Illumination

||| || |||| ||| ||| ||| |||
W0C0000
Off

||| || |||| ||| ||| ||| |||
W0C0008
Always On

||| || |||| ||| ||| ||| |||
W0C0004
** On When Scanning

Chapter 3 Communication Settings

Introduction

The scanner provides an RS-232 interface, a USB interface and a PS/2 interface (hardware version: V2 or higher) to communicate with the host device. The host device can receive scanned data and send commands to control the scanner or to access/alter the configuration information of the scanner via the RS-232 or USB or PS/2 interface.

RS-232 Interface

Serial communication interface is usually used to connect the scanner to a host device (like PC, POS). When the scanner is connected to a host device through its RS-232 interface, you need to set communication parameters to match the host device.

Baud Rate

Baud rate is the number of bits of data transmitted per second. Set the scanner's baud rate to match the Host requirements.

WFFD9D3

** 9600

WFFD9D0

1200

WFFD9D5

19200

WFFD9D1

2400

WFFD9D6

38400

WFFD9D2

4800

WFFD9D7

57600

WFFD9D4

14400

WFFD9D8

115200

Parity Check

W062900
** None

W062906
Even Parity

W062904
Odd Parity

Stop Bit

W012900
** 1 Stop Bit

W012901
2 Stop Bits

Data Bit

‖‖‖‖‖‖‖‖‖‖‖‖‖
W082908
8 Data Bits

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F2908
** 8 Data Bits, No Parity, 1 Stop Bit

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F290E
8 Data Bits, Even Parity, 1 Stop Bit

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F290C
8 Data Bits, Odd Parity, 1 Stop Bit

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F2909
8 Data Bits, No Parity, 2 Stop Bits

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F290F
8 Data Bits, Even Parity , 2 Stop Bits

‖‖‖‖‖‖‖‖‖‖‖‖‖
W0F290D
8 Data Bits, Odd Parity, 2 Stop Bits

‖‖‖‖‖‖‖‖‖‖‖‖‖
W082900
7 Data Bits

‖‖‖‖‖‖‖‖‖‖‖‖‖
W 0 1 0 F 0 0
Exit Setup

||| | ||| ||||| ||| |||| |||||

W0F2906

7 Data Bits, Even Parity, 1 Stop Bit

||| || ||||| ||| ||||| |||||

W0F2904

7 Data Bits, Odd Parity, 1 Stop Bit

||| | ||| ||||| ||| |||| |||||

W0F2907

7 Data Bits, Even Parity, 2 Stop Bits

||| || ||||| ||| ||||| |||||

W0F2905

7 Data Bits, Odd Parity, 2 Stop Bits

USB Interface

When the scanner is connected to a host device through its USB interface, **USB HID-KBW** is enabled by default. User can switch between options – **USB DATAPIPE**, **USB HID-KBW**, **USB COM Port Emulation** and **HID-POS**, upon actual need.

USB HID-KBW

W070901

** USB HID-KBW

Standard Keyboard

When the USB HID-KBW feature is enabled, the scanner selects **Standard Keyboard** by default. Besides that, the other two options are provided: **Emulate ALT+Keypad** and **Function Key Mapping**.

W031A00
** Standard Keyboard

Emulate ALT+Keypad

When **Emulate ALT+Keypad** is enabled, any ASCII character (0x00 - 0xFF) is sent over the numeric keypad no matter which keyboard type is selected. Since sending a character involves multiple keystroke emulations, this method appears less efficient.

1. ALT Make

2. Enter the number corresponding to the ASCII character on the keypad.

3. ALT Break

W031A03
Emulate ALT+Keypad

Note: It is recommended to turn on the Num Lock light on the host when using this feature.

Function Key Mapping

When **Function Key Mapping** is enabled, function character (0x00 - 0x1F) are sent as ASCII sequences over the numeric keypad.

1. CTRL Make

2. Press function key (Refer to the **ASCII Function Key Mapping Table** on the following page)

3. CTRL Break

W031A01
Function Key Mapping

ASCII Function Key Mapping Table

ASCII Value （HEX）	Function Key	ASCII Value （HEX）	Function Key
00	2	10	P
01	A	11	Q
02	B	12	R
03	C	13	S
04	D	14	T
05	E	15	U
06	F	16	V
07	G	17	W
08	H	18	X
09	I	19	Y
0A	J	1A	Z
0B	K	1B	[
0C	L	1C	\
0D	M	1D	]
0E	N	1E	6
0F	O	1F	.

USB Country Keyboard Types

Keyboard layouts vary from country to country. All supported keyboard types are listed below.

WFF1900
** 1 - U.S.

WFF1901
2 - Belgium

WFF1902
3 - Brazil

WFF1903
4 - Canada

WFF1904
5 - Czech

WFF1905
6 - Denmark

WFF1906
7 - Finland

WFF1907
8 - France

WFF1908
9 - Austria

WFF1909
10 - Greece

WFF190A
11 - Hungary

WFF190B
12 - Israel

WFF190C
13 - Italy

WFF190D
14 - Latin America

WFF190E
15 - Netherland

WFF190F
16 - Norway

WFF1910
17 - Poland

WFF1911
18 - Portugal

WFF1912
19 - Romania

WFF1913
20 - Russia

WFF1915
21 - Slovakia

WFF1916
22 - Spain

WFF1917
23 - Sweden

WFF1918
24 - Switzerland

WFF1919
25 - Turkey1

WFF191A
26 - Turkey2

WFF191B
27 - UK

WFF191C
28 - Japan

WO10F00
Exit Setup

Inter-Keystroke Delay

This parameter specifies the delay between emulated keystrokes.

WC01A00
** No Delay

WC01A40
Short Delay (5ms)

WC01A80
Medium Delay (10ms)

WC01AC0
Long Delay (15ms)

Convert Case

This parameter is valid when the **Standard Keyboard** or **Function Key Mapping** is enabled.

W381A00
** No Case Conversion

W381A20
Convert All to Upper Case

W381A30
Convert All to Lower Case

W381A08
Invert Upper and Lower Case Characters

Example: When the **Convert All to Lower Case** feature is enabled, barcode data "AbC" is transmitted as "abc".

Emulate Numeric Keypad

When this feature is disabled, sending barcode data is emulated as keystroke(s) on main keyboard.

To enable this feature, scan the **Emulate Numeric Keypad** barcode. Sending a number (0-9) is emulated as keystroke on numeric keypad, whereas sending other character like "+", "_", "*" , "/" and "." is still emulated as keystroke on main keyboard. However, this feature is influenced by the state of the Num Lock key on the host: if the Num Lock light on the host is ON, numbers are sent over numeric keypad, if it is OFF, numbers are sent over main keyboard.

||| | ||| || ||||| ||||| |||
W041A04
Emulate Numeric Keypad

||| | ||| || ||||| ||||| |||
W041A00
** **Do Not Emulate Numeric Keypad**

Note: Make sure the Num Lock light of the Host is turned ON when using this feature.
Emulate ALT+Keypad ON prevails over **Emulate Numeric Keypad**.

USB COM Port Emulation

This feature allows the host to receive data in the way as a serial port does. However, you need to set communication parameters on the scanner to match the Host requirements. A driver is required for this feature.

W070902

USB COM Port Emulation

USB DataPipe

A driver is required when using this protocol to communicate with the scanner.

W070900

USB DataPipe

HID-POS

The HID-POS interface is recommended for new application programs. It can send up to 56 characters in a single USB report and appears more efficient than USB HID-KBW.

Features:

✧ HID based, no custom driver required.

✧ Way more efficient in communication than USB HID-KBW and traditional RS-232 interface.

Note: HID-POS does not require a custom driver. However, a HID interface on Windows 98 does. All HID interfaces employ standard driver provided by the operating system. Use defaults when installing the driver.

W070903

HID-POS

Access the Scanner with Your Program

1.   Use CreateFile to access the scanner as a HID device.

2.   Use ReadFile to deliver the scanned data to the application program.

3.   Use WriteFile to send data to the scanner.

For detailed information about USB and HID interfaces, go to www.USB.org.

Acquire Scanned Data

After a barcode is decoded, the scanner sends an input report as below:

Byte	Bit							
	7	6	5	4	3	2	1	0
0	Report ID = 02							
1	Barcode Length							
2-57	Decoded Data (1-56)							
58-61	Reserved (1-4)							
62	00							
63	00 (no data continued) or 01 (data continued)							

VID/PID

USB uses VID (Vendor ID) and PID (Product ID) to identify and locate a device. The VID is assigned by USB Implementers Forum. Newland's vendor ID is 1EAB (Hex). A range of PIDs are used for each Sunlux product family. Every PID contains a base number and interface type (keyboard, COM port, etc.).

Product	Interface	PID (Hex)	PID (Dec)
XL-626	USB DataPipe	8001	32769
	USB HID-KBW	8003	32771
	USB COM Port Emulation	8002	32770
	HID-POS	8010	32784

PS/2 Interface (Hardware Version: V2 or higher)

When the scanner is connected to a host device through its PS/2 interface, users need to scan the following barcode to enable the PS/2 port.

W100910

PS/2-KBW

To switch from PS/2 to RS-232, scan the barcode below.

W100900

RS-232

Chapter 4 Data Formatting

Introduction

After a successful barcode read, a string containing numbers, letters or symbols will be returned.

In real applications, barcode data may be found insufficient for your needs. You may wish to include additional information such as barcode type, data acquisition time or delimiter in data being scanned.

Adding extra information to printed barcodes does not seem like a sensible solution since that will increase the barcode size and make them inflexible. Instead, we come up with the idea of appending prefix and suffix to the data without making any change to barcodes. We will show you how to conduct the configuration in the following sections.

Note: Customized data: <Prefix> <Data><Suffix><Terminating Character>

Prefix Sequence

W013100
** Code ID+Custom+AIM ID

W013101
Custom+Code ID+ AIM ID

Custom Prefix

Enable/Disable Custom Prefix

If custom prefix is enabled, you are allowed to append to the data a user-defined prefix that cannot exceed 5 characters.

For example, if barcode data is "123" and custom prefix is "AB", the Host will receive "AB123".

W043104
Enable Custom Prefix

W043100
** Disable Custom Prefix

Set Custom Prefix

To set a custom prefix, scan the **Set Custom Prefix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired prefix and the **Save** barcode.

Note: A custom prefix cannot exceed 5 characters.

M000100
Set Custom Prefix

Example: Set the custom prefix to "CODE" (its hexadecimal value is 0x43/0x4F/0x44/0x45)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Prefix** barcode.
3. Scan the numeric barcodes "4","3","4","F","4","4","4" and "5". (See the **Digit Barcodes**section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Enable Custom Prefix** barcode.
6. Scan the **Exit Setup** barcode.

AIM ID Prefix

AIM (Automatic Identification Manufacturers) ID defines symbology identifier (For the details, see the **AIM ID Table** section in Appendix). If AIM ID prefix is enabled, the scanner will add the symbology identifier before the scanned data after decoding.

W186018
Enable AIM ID Prefix

W186000
** Disable AIM ID Prefix

CODE ID Prefix

Code ID can also be used to identify barcode type. Unlike AIM ID, Code ID is user programmable. For the information of default Code ID, see the **Code ID Table** section in Appendix.

||| ||| ||| ||||| ||| ||| |||||
W023102
Enable CODE ID Prefix

||| ||| ||||| ||| ||| ||||| |||
W023100
** Disable CODE ID Prefix

Restore All Default Code IDs

||| ||| ||||| ||| ||| ||| ||| |||||
W F F D 9 C 2
Restore All Default Code IDs

Set Code ID

Code ID can only consist of one or two English letters. To set a Code ID, scan a **Set Code ID** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

Example: Set the Code ID of Code 128 to "p" (its hexadecimal value is 0x70)

1. Scan the **Enter Setup** barcode.

2. Scan the **Set Code 128 Code ID** barcode. (See the barcode on the following page)

3. Scan the numeric barcodes "7" and "0". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Exit Setup** barcode.

Set Code ID Barcodes

M000200
Set Code 128 Code ID

M000201
Set UCC/EAN-128 Code ID

M000202
Set AIM 128 Code ID

M000204
Set EAN-8 Code ID

M000205
Set EAN-13 Code ID

M000206
Set ISSN Code ID

M000207
Set ISBN Code ID

M000208
Set UPC-E Code ID

Set Code ID Barcodes (continued)

M000209
Set UPC-A Code ID

M00020A
Set Interleaved 2 of 5 Code ID

M00020B
Set ITF-6 Code ID

M00020C
Set ITF-14 Code ID

M00020D
Set Deutsche 14 Code ID

M00020E
Set Deutsche 12 Code ID

M00020F
Set Matrix 2 of 5 Code ID

M000210
Set Industrial 25 Code ID

Set Code ID Barcodes (continued)

||| || |||| ||| |||| |||| |||
M000211
Set Standard 25 Code ID

||| ||| |||| ||| |||| |||| |||
M000212
Set Code 39 Code ID

||| ||| |||| ||| |||| ||| |||
M000213
Set Codabar Code ID

||| || |||| ||| |||| |||| |||
M000214
Set Code 93 Code ID

||| | |||| ||| |||| ||| |||
M000215
Set Code 11 Code ID

||| ||| |||| ||| |||| |||| |||
M000216
Set Plessey Code ID

||| ||| |||| ||| |||| ||| |||
M000217
Set MSI-Plessey Code ID

||| || |||| ||| |||| |||| |||
M000218
Set RSS-14 Code ID

||| ||| |||| ||| |||| ||| |||
M000219
Set RSS-Limited Code ID

||| ||| |||| ||| |||| |||| ||| |||
M00021A
Set RSS-Expand Code ID

Custom Suffix

Enable/Disable Custom Suffix

If custom suffix is enabled, you are allowed to append to the data a user-defined suffix that cannot exceed 5 characters.

For example, if barcode data is "123" and custom suffix is "AB", the Host will receive "123AB".

W083108
Enable Custom Suffix

W083100
** Disable Custom Suffix

Set Custom Suffix

To set a custom suffix, scan the **Set Custom Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired suffix and the **Save** barcode.

Note: A custom suffix cannot exceed 5 characters.

M000101
Set Custom Suffix

Example: Set the custom suffix to "AGE" (its hexadecimal value is 0x41/0x47/0x45)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Suffix** barcode.
3. Scan the numeric barcodes "4""1""4""7""4" and "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Enable Custom Suffix** barcode.
6. Scan the **Exit Setup** barcode.

Terminating Character Suffix

A terminating character, such as carriage return (CR) and line feed (LF), can be used to mark the end of data, which means nothing can be added after it.

A terminating character suffix cannot exceeed 5 characters.

Enable/Disable Terminating Character Suffix

To enable/disable terminating character suffix, scan the appropriate barcode below.

W103110

** Enable Terminating Character Suffix

W103100

Disable Terminating Character Suffix

Set Terminating Character Suffix

The scanner provides a shortcut for setting the terminating character suffix to 0x0D (CR) or 0x0D,0x0A (CRLF) or 0x09 (Horizontal Tab) by scanning the following barcode.

WFFD9C3

Terminating Character 0x0D

WFFD9C4

** Terminating Character 0x0D,0x0A

WFFD9C5

Terminating Character 0x09

M000102

Set Terminating Character Suffix

To set other terminating character suffix, scan the **Set Terminating Character Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired terminating character, and the **Save** barcode.

Note: A terminating character suffix cannot exceed 5 characters.

Example: Set the terminating character suffix to 0x0A

1. Scan the **Enter Setup** barcode.

2. Scan the **Set Terminating Character Suffix** barcode.

3. Scan the numeric barcodes "0" and "A". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Enable Terminating Character Suffix** barcode.

6. Scan the **Exit Setup** barcode.

Chapter 5 Symbologies

Introduction

Every symbology (barcode type) has its own unique attributes. This chapter provides programming barcodes for configuring the scanner so that it can identify various barcode symbologies. It is recommended to disable those that are rarely used to increase the efficiency of the scanner.

Global Settings

Enable/Disable All Symbologies

If all symbologies are disabled, the scanner can only identify programming barcodes.

WFFD981
Enable All Symbologies

WFFD982
Disable All Symbologies

Code 128

Restore Factory Defaults

WFFD990

Restore the Factory Defaults of Code 128

Enable/Disable Code 128

W016101

** Enable Code 128

W016100

Disable Code 128

Set Length Range for Code 128

The scanner can be configured to only decode Code 128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 128 barcodes with that length are to be decoded.

M000301
Set the Minimum Length

M000300
Set the Maximum Length

Example: Set the scanner to decode Code128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

UCC/EAN-128

Restore Factory Defaults

WFFD991

Restore the Factory Defaults of UCC/EAN-128

Enable/Disable UCC/EAN-128

W036203

** Enable UCC/EAN-128

W036200

Disable UCC/EAN-128

W036201

Decode as Code 128

Set Length Range for UCC/EAN-128

The scanner can be configured to only decode UCC/EAN-128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes UCC/EAN-128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only UCC/EAN-128 barcodes with that length are to be decoded.

M000303
Set the Minimum Length

M000302
Set the Maximum Length

Example: Set the scanner to decode UCC/EAN-128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

AIM 128

Restore Factory Defaults

WFFD992

Restore the Factory Defaults of AIM 128

Enable/Disable AIM 128

W036302

Enable AIM 128

W036300

** Disable AIM 128

W036301

Decode as Code 128

Set Length Range for AIM 128

The scanner can be configured to only decode AIM 128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes AIM 128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only AIM 128 barcodes with that length are to be decoded.

M000305
Set the Minimum Length

M000304
Set the Maximum Length

Example: Set the scanner to decode AIM128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

EAN-8

Restore Factory Defaults

||| || ||| ||| ||||| ||||
WFFD994

Restore the Factory Defaults of EAN-8

Enable/Disable EAN-8

||| ||| || ||||| ||||
W016501
** Enable EAN-8

||| ||| || ||||| ||||
W016500
Disable EAN-8

Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the integrity of the data.

||| || ||| ||| ||||
W046504
** Transmit EAN-8 Check Digit

||| || ||| ||| ||||
W046500
Do Not Transmit EAN-8 Check Digit

Add-On Code

An EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-8 barcode while the part circled by red dotted line is add-on code.

W106510
Enable 2-Digit Add-On Code

W106500
**** Disable 2-Digit Add-On Code**

W206520
Enable 5-Digit Add-On Code

W206500
**** Disable 5-Digit Add-On Code**

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of EAN-8 barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-8 and ignores the add-on code when presented with an EAN-8 plus add-on barcode. It can also decode EAN-8 barcodes without add-on codes.

Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.

W086508
EAN-8 Add-On Code Required

W086500
** EAN-8 Add-On Code Not Required

EAN-8 Extension

Disable EAN-8 Zero Extend: Transmit EAN-8 barcodes as is.

Enable EAN-8 Zero Extend: Add five leading zeros to decoded EAN-8 barcodes to extend to13 digits.

Convert EAN-8 to EAN-13: Add five leading zeros to decoded EAN-8 barcodes to make them compatible in format to EAN-13 barcodes.

WC06540
Enable EAN-8 Zero Extend

WC06500
** Disable EAN-8 Zero Extend

WC06580
Convert EAN-8 to EAN-13

EAN-13

Restore Factory Defaults

||||||||||||||||||||||||||
' WFFD995
Restore the Factory Defaults of EAN-13

Enable/Disable EAN-13

|||||||||||||||||||||
W016601
** Enable EAN-13

|||||||||||||||||||||
W016600
Disable EAN-13

Transmit Check Digit

EAN-13 is 13 digits in length with the last one as its check digit used to verify the integrity of the data.

|||||||||||||||||||||
W046604
** Transmit EAN-13 Check Digit

|||||||||||||||||||||
W046600
Do Not Transmit EAN-13 Check Digit

Add-On Code

An EAN-13 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-13 barcode while the part circled by red dotted line is add-on code.

W106610
Enable 2-Digit Add-On Code

W106600
**** Disable 2-Digit Add-On Code**

W206620
Enable 5-Digit Add-On Code

W206600
**** Disable 5-Digit Add-On Code**

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of EAN-13 barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-13 and ignores the add-on code when presented with an EAN-13 plus add-on barcode. It can also decode EAN-13 barcodes without add-on codes.

Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.

W086608

EAN-13 Add-On Code Required

W086600

** EAN-13 Add-On Code Not Required

ISSN

Restore Factory Defaults

WFFD996

Restore the Factory Defaults of ISSN

Enable/Disable ISSN

W036702

Enable ISSN

W036700

** Disable ISSN

W036701

Decode as EAN-13

ISBN

Restore Factory Defaults

||||| ||| ||| || ||| ||||| |||||
WFFD997
Restore the Factory Defaults of ISBN

Enable/Disable ISBN

||||| ||| ||| || ||| ||||| |||||
W036802
Enable ISBN

||||| ||| ||| || ||| ||||| |||||
W036800
** Disable ISBN

||||| ||| ||| || ||| ||||| |||||
W036801
Decode as EAN-13

Set ISBN Format

W086800

** ISBN-13

W086808

ISBN-10

UPC-E

Restore Factory Defaults

WFFD998
Restore the Factory Defaults of UPC-E

Enable/Disable UPC-E

W016901
** Enable UPC-E

W016900
Disable UPC-E

Transmit Check Digit

UPC-E is 8 digits in length with the last one as its check digit used to verify the integrity of the data.

W046904
** Transmit UPC-E Check Digit

W046900
Do Not Transmit UPC-E Check Digit

Add-On Code

A UPC-E barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is a UPC-E barcode while the part circled by red dotted line is add-on code.

W106910
Enable 2-Digit Add-On Code

W106900
** Disable 2-Digit Add-On Code

W206920
Enable 5-Digit Add-On Code

W206900
** Disable 5-Digit Add-On Code

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-E barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes UPC-E and ignores the add-on code when presented with a UPC-E plus add-on barcode. It can also decode UPC-E barcodes without add-on codes.

Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.

W086908

UPC-E Add-On Code Required

W086900

** UPC-E Add-On Code Not Required

Transmit System Character

The first character of UPC-E barcode is the system character.

W306A10

Do Not Transmit System Character

W306A20

** Transmit System Character

UPC-E Extension

Disable UPC-E Extend: Transmit UPC-E barcodes as is.

Enable UPC-E Extend: Extend UPC-E barcodes to make them compatible in length to UPC-A.

Convert UPC-E to UPC-A: Extend UPC-E barcodes to make them compatible in format to UPC-A.

WC06940

Enable UPC-E Extend

WC06900

**Disable UPC-E Extend

WC06980

Convert UPC-E to UPC-A

UPC-A

Restore Factory Defaults

||| || ||| ||| |||| | |||| |||
WFFD999
Restore the Factory Defaults of UPC-A

Enable/Disable UPC-A

||| || ||| |||| ||| |||| |||
W036B02
** Enable UPC-A

|| ||| ||| |||| ||| |||| |||
W036B00
Disable UPC-A

||| || ||| |||| | || |||| |||
W036B01
Decode as EAN-13

Transmit Check Digit

UPC-A is 13 digits in length with the last one as its check digit used to verify the integrity of the data.

W086B08
** Transmit UPC-A Check Digit

W086B00
Do Not Transmit UPC-A Check Digit

Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A barcode. Select one of the following options for transmitting UPC-A preamble to the host device: transmit system character only, transmit system character and country code ("0" for USA), or transmit no preamble.

W036A00
No Preamble

W036A01
** System Character

W036A02
System Character & Country Code

Add-On Code

A UPC-A barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is a UPC-A barcode while the part circled by red dotted line is add-on code.

W206B20
Enable 2-Digit Add-On Code

W206B00
**** Disable 2-Digit Add-On Code**

W406B40
Enable 5-Digit Add-On Code

W406B00
**** Disable 5-Digit Add-On Code**

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-A barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes UPC-A and ignores the add-on code when presented with a UPC-A plus add-on barcode. It can also decode UPC-A barcodes without add-on codes.

Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.

W106B10

UPC-A Add-On Code Required

W106B00

** UPC-A Add-On Code Not Required

Interleaved 2 of 5

Restore Factory Defaults

||||| |||| ||| ||||| ||||

WFFD99A

Restore the Factory Defaults of Interleaved 2 of 5

Enable/Disable Interleaved 2 of 5

||||| |||| ||| ||||| ||||

W016C01

** Enable Interleaved 2 of 5

||||| |||| ||| ||||| ||||

W016C00

Disable Interleaved 2 of 5

Check Digit Verification

A check digit is optional for Interleaved 2 o 5 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Interleaved 2 of 5 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Interleaved 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Interleaved 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

||||| || ||| || |||| ||| |||||
W0C6C00
Disable

||||| || ||| || |||| ||| |||||
W0C6C04
** Do Not Transmit Check Digit After Verification

||||| || ||| || |||| ||| |||||
W0C6C0C
Transmit Check Digit After Verification

Set Length Range for Interleaved 2 of 5

The scanner can be configured to only decode Interleaved 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Interleaved 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Interleaved 2 of 5 barcodes with that length are to be decoded.

M000307
Set the Minimum Length

M000306
Set the Maximum Length

Example: Set the scanner to decode Interleaved 2 of 5 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

ITF-6

ITF-6 is a special kind of Interleaved 2 of 5 with a length of 6 characters and the last character as the check character.

Restore Factory Defaults

WFFD99B

Restore the Factory Defaults of ITF-6

Enable/Disable ITF-6

By default, ITF-6 is decoded as Interleaved 2 of 5.

W036D01

Disable ITF-6

W0B6D02

Enable ITF-6 But Do Not Transmit Check Digit

W0B6D0A

Enable ITF-6 and Transmit Check Digit

Note: It is advised not to enable ITF-6 and Interleaved 2 of 5 at the same time.

ITF-14

ITF-14 is a special kind of Interleaved 2 of 5 with a length of 14 characters and the last character as the check character.

Restore Factory Defaults

WFFD99C

Restore the Factory Defaults of ITF-14

Enable/Disable ITF-14

By default, ITF-14 is decoded as Interleaved 2 of 5.

W036E01

Disable ITF-14

W0B6E02

Enable ITF-14 But Do Not Transmit Check Digit

W0B6E0A

Enable ITF-14 and Transmit Check Digit

Note: It is advised not to enable ITF-14 and Interleaved 2 of 5 at the same time.

Deutsche 14

Restore Factory Defaults

WFFD99D

Restore the Factory Defaults of Deutsche 14

Enable/Disable Deutsche 14

By default, Deutsche 14 is decoded as Interleaved 2 of 5.

W036F01

Disable Deutsche 14

WOB6F02

Enable Deutsche 14 But Do Not Transmit Check Digit

WOB6F0A

Enable Deutsche 14 and Transmit Check Digit

Note: It is advised not to enable Deutsche 14 unless necessary, because Deutsche 14, ITF-14 and Interleaved 2 of 5 use the same encoding method and enabling them at the same time can easily cause confusion with each other when decoding.

Deutsche 12

Restore Factory Defaults

WFFD99E

Restore the Factory Defaults of Deutsche 12

Enable/Disable Deutsche 12

By default, Deutsche 12 is decoded as Interleaved 2 of 5.

W037001

Disable Deutsche 12

W0B7002

Enable Deutsche 12 But Do Not Transmit Check Digit

W0B700A

Enable Deutsche 12 and Transmit Check Digit

Note: It is advised not to enable Deutsche 12 unless necessary, because Deutsche 12, ITF-12 and Interleaved 2 of 5 use the same encoding method and enabling them at the same time can easily cause confusion with each other when decoding.

Matrix 2 of 5 (European Matrix 2 of 5)

Restore Factory Defaults

WFFD99F

Restore the Factory Defaults of Matrix 2 of 5

Enable/Disable Matrix 2 of 5

W017101

** Enable Matrix 2 of 5

W017100

Disable Matrix 2 of 5

Check Digit Verification

A check digit is optional for Matrix 2 of 5 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Matrix 2 of 5 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Matrix 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Matrix 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

W0C7100
** Disable

W0C7104
Do Not Transmit Check Digit After Verification

W0C710C
Transmit Check Digit After Verification

Set Length Range for Matrix 2 of 5

The scanner can be configured to only decode Matrix 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Matrix 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Matrix 2 of 5 barcodes with that length are to be decoded.

||||| ||| |||| || ||| |||| ||||
M000309
Set the Minimum Length

||||| ||| |||| || ||| |||| ||||
M000308
Set the Maximum Length

Example: Set the scanner to decode Matrix 2 of 5 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

Industrial 25

Restore Factory Defaults

```
‖‖‖ ‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖ ‖‖‖
WFFD9A0
```
Restore the Factory Defaults of Industrial 25

Enable/Disable Industrial 25

```
‖‖‖ ‖ ‖‖‖ ‖‖‖ ‖ ‖‖‖ ‖ ‖‖
W017201
```
** Enable Industrial 25

```
‖‖‖ ‖ ‖‖‖ ‖‖‖ ‖‖ ‖ ‖‖ ‖‖
W017200
```
Disable Industrial 25

125

```
‖‖‖ ‖‖‖ ‖‖‖ ‖‖ ‖ ‖‖‖‖ ‖‖‖ ‖‖
W010F00
```
Exit Setup

Check Digit Verification

A check digit is optional for Industrial 25 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Industrial 25 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

||||| ||| ||| ||| |||| ||| |||
W0C7200
** Disable

||||| ||| ||| ||| ||| |||
W0C7204
Do Not Transmit Check Digit After Verification

||||| ||| ||| ||| ||| |||
W0C720C
Transmit Check Digit After Verification

Set Length Range for Industrial 25

The scanner can be configured to only decode Industrial 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Industrial 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Industrial 25 barcodes with that length are to be decoded.

M00030B
Set the Minimum Length

M00030A
Set the Maximum Length

Example: Set the scanner to decode Industrial 25 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

Standard 25

Restore Factory Defaults

WFFD9A1

Restore the Factory Defaults of Standard 25

Enable/Disable Standard 25

W017301

** Enable Standard 25

W017300

Disable Standard 25

Check Digit Verification

A check digit is optional for Standard 25 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Standard 25 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Standard 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Standard 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

W0C7300
** Disable

W0C7304
Do Not Transmit Check Digit After Verification

W0C730C
Transmit Check Digit After Verification

Set Length Range for Standard 25

The scanner can be configured to only decode Standard 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Standard 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Standard 25 barcodes with that length are to be decoded.

||| ||| ||| ||| ||| ||| |||
M00030D
Set the Minimum Length

||| ||| ||| ||| ||| ||| |||
M00030C
Set the Maximum Length

Example: Set the scanner to decode Standard 25 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcodes "1" and "2".

7. Scan the **Save** barcode.

8. Scan the **Exit Setup** barcode.

Code 39

Restore Factory Defaults

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WFFD9A2

Restore the Factory Defaults of Code 39

Enable/Disable Code 39

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W017401

** Enable Code 39

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
W017400

Disable Code 39

Check Digit Verification

A check digit is optional for Code 39 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Code 39 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Code 39 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Code 39 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

||||| ||| || ||||||| |||||
W187400
** Disable

||||| ||| || ||||||| |||||
W187408
Do Not Transmit Check Digit After Verification

||||| ||| || ||||||| |||||
W187418
Transmit Check Digit After Verification

Transmit Start/Stop Characters

Code 39 uses an asterisk (*) for both the start and the stop characters. You can choose whether or not to transmit the start/stop characters by scanning the appropriate barcode below.

W047404

Transmit Start/Stop Characters

W047400

** Do Not Transmit Start/Stop Characters

Enable/Disable Code 39 Full ASCII

The scanner can be configured to identify all ASCII characters by scanning the appropriate barcode below.

W207420

** Enable Code 39 Full ASCII

W207400

Disable Code 39 Full ASCII

Set Length Range for Code 39

The scanner can be configured to only decode Code 39 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 39 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 39 barcodes with that length are to be decoded.

M00030F
Set the Minimum Length

MM00030E
Set the Maximum Length

Example: Set the scanner to decode Code 39 barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

Codabar

Restore Factory Defaults

WFFD9A3

Restore the Factory Defaults of Codabar

Enable/Disable Codabar

W017501

** Enable Codabar

W017500

Disable Codabar

Check Digit Verification

A check digit is optional for Codabar and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

Disable: The scanner transmits Codabar barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Codabar barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Codabar barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.

||||| ||| ||||||| ||||||
W607500
** Disable

||||| ||| ||||||| ||||||
W607520
Do Not Transmit Check Digit After Verification

||||| ||| ||||||| ||||||
W607560
Transmit Check Digit After Verification

Start/Stop Characters

WO47504

** Transmit Start/Stop Characters

WO47500

Do Not Transmit Start/Stop Characters

W187500

** ABCD/ABCD as the Start/Stop Character

W187508

ABCD/TN*E as the Start/Stop Character

W187510

abcd/abcd as the Start/Stop Character

W187518

abcd/tn*e as the Start/Stop Character

Set Length Range for Codabar

The scanner can be configured to only decode Codabar barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Codabar barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Codabar barcodes with that length are to be decoded.

M000311

Set the Minimum Length

M000310

Set the Maximum Length

Example: Set the scanner to decode Codabar barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

Code 93

Restore Factory Defaults

WFFD9A4

Restore the Factory Defaults of Code 93

Enable/Disable Code 93

W017601

** Enable Code 93

W017600

Disable Code 93

Check Digit Verification

Check digits are optional for Code 93 and can be added as the last two digits, which are calculated values used to verify the integrity of the data.

Disable: The scanner transmits Code 93 barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.

W0C7600
Disable

W0C7604
** Do Not Transmit Check Digit After Verification

W0C760C
Transmit Check Digit After Verification

Set Length Range for Code 93

The scanner can be configured to only decode Code 93 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 93 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 93 barcodes with that length are to be decoded.

M000313
Set the Minimum Length

M000312
Set the Maximum Length

Example: Set the scanner to decode Code 93 barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

Code 11

Restore Factory Defaults

WFFD9A5

Restore the Factory Defaults of Code 11

Enable/Disable Code 11

W017701

Enable Code 11

W017700

** Disable Code 11

Check Digit Verification

Check digits are optional for Code 11 and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.

If the **Disable** option is enabled, the scanner transmits Code 11 barcodes as is.

W1C7700
Disable

W1C7704
** One Check Digit, MOD11

W1C7708
Two Check Digits, MOD11/MOD11

W1C770C
Two Check Digits, MOD11/MOD9

W1C7710
One Check Digit, MOD11 (Len <= 11)
Two Check Digits, MOD11/MOD11 (Len > 11)

W1C7714
One Check Digit, MOD11 (Len <= 11)
Two Check Digits, MOD11/MOD9 (Len > 11)

W207720
Transmit Check Digit

W207700
** Do Not Transmit Check Digit

Set Length Range for Code 11

The scanner can be configured to only decode Code 11 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 11 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 11 barcodes with that length are to be decoded.

M000315
Set the Minimum Length

M000314
Set the Maximum Length

Example: Set the scanner to decode Code 11 barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

Plessey

Restore Factory Defaults

WFFD9A6

Restore the Factory Defaults of Plessey

Enable/Disable Plessey

W017801

Enable Plessey

W017800

** Disable Plessey

Check Digit Verification

Check digits are optional for Plessey and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.

Disable: The scanner transmits Plessey barcodes as is.

Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Plessey barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.

Transmit Check Digit After Verification: The scanner checks the integrity of all Plessey barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.

W0C7800

Disable

W0C7804

** Do Not Transmit Check Digit After Verification

W0C780C

Transmit Check Digit After Verification

Set Length Range for Plessey

The scanner can be configured to only decode Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Plessey barcodes with that length are to be decoded.

M000317
Set the Minimum Length

M000316
Set the Maximum Length

Example: Set the scanner to decode Plessey barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

MSI-Plessey

Restore Factory Defaults

WFFD9A7

Restore the Factory Defaults of MSI-Plessey

Enable/Disable MSI-Plessey

W017901

Enable MSI-Plessey

W017900

** Disable MSI-Plessey

Check Digit Verification

Check digits are optional for MSI-Plessey and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.

If the **Disable** option is enabled, the scanner transmits MSI-Plessey barcodes as is.

W0C7900
Disable

W0C7904
** One Check Digit, MOD10

W0C7908
Two Check Digits, MOD10/MOD10

W0C790C
Two Check Digits, MOD10/MOD11

W107910
Transmit Check Digit

W107900
** Do Not Transmit Check Digit

Set Length Range for MSI-Plessey

The scanner can be configured to only decode MSI-Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes MSI-Plessey barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only MSI-Plessey barcodes with that length are to be decoded.

||||| ||| ||||| ||| || |||||||||
M000319
Set the Minimum Length

||| || ||| ||||| ||| ||||||||||
M000318
Set the Maximum Length

Example: Set the scanner to decode MSI-Plessey barcodes containing between 8 and 12 characters.

1. Scan the **Enter Setup** barcode.

2. Scan the **Set the Minimum Length** barcode.

3. Scan the numeric barcode "8". (See the **Digit Barcodes** section in Appendix)

4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)

5. Scan the **Set the Maximum Length** barcode.

6. Scan the numeric barcode "1".

7. Scan the numeric barcode "2".

8. Scan the **Save** barcode.

9. Scan the **Exit Setup** barcode.

RSS-14

Restore Factory Defaults

WFFD9A8

Restore the Factory Defaults of RSS-14

Enable/Disable RSS-14

W017A01

** Enable RSS-14

W017A00

Disable RSS-14

Transmit Application Identifier "01"

W047A04

** Transmit Application Identifier "01"

W047A00

Do Not Transmit Application Identifier "01"

RSS-Limited

Restore Factory Defaults

WFFD9A9

Restore the Factory Defaults of RSS-Limited

Enable/Disable RSS-Limited

W017B01

** Enable RSS-Limited

W017B00

Disable RSS-Limited

Transmit Application Identifier "01"

W047B04

** Transmit Application Identifier "01"

W047B00

Do Not Transmit Application Identifier "01"

RSS-Expand

Restore Factory Defaults

WFFD9AA

Restore the Factory Defaults of RSS-Expand

Enable/Disable RSS-Expand

W017C01

** Enable RSS-Expand

W017C00

Disable RSS-Expand

Appendix

Factory Defaults Table

Parameter		Factory Default	Remark
System Settings			
Barcode Programming		Enabled	
Programming Barcode Data		Do not send	
Scan Mode		Manual Mode	
Manual Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
Continuous Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
	Timeout between Decodes	1.0s	0.0-25.5s
	Reread Same Barcode	With no delay	To disable rereads of same barcode, enable the **Reread Same Barcode with a Delay** and set the delay to 0.
Sense Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
	Image Stabilization Timeout	0.4s	0.0-25.5s
	Reread Same Barcode	With no delay	To disable rereads of same barcode, enable the **Reread Same Barcode with a Delay** and set the delay to 0.
	Sensitivity	Medium	
Command Trigger Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
Security Level		0	
Good Read Beep		Enabled	
Good Read Beep Frequency		Medium	
Good Read Beep Duration		80ms	
Decode Result Notification		Disabled	
Silent Mode		Disabled	Temporary setting
Illumination		On When Scanning	Temporary setting

Parameter		Factory Default	Remark
Communication Interfaces			
TTL-232 Interface	Baud Rate	9600	
	Parity Check	None	
	Number of Data Bits	8	
	Number of Stop Bits	1	
	Flow Control	None	
USB Interface		USB HID-KBW	Other options: DataPipe, USB COM Port Emulation, HID-POS
USB HID-KBW	Input Mode	Standard Keyboard	
	USB Country Keyboard Type	U.S.	
	Inter-Keystroke Delay	No delay	
	Convert Case	No Conversion	
	Emulate Numeric Keypad	Disabled	
Data Formatting			
Prefix Sequence		Code ID+Custom+AIM ID	
AIM ID Prefix		Disabled	
Code ID Prefix		Disabled	1 or 2 English letters
Custom Prefix		Disabled	1 to 5 characters
Custom Suffix		Disabled	1 to 5 characters
Terminating Character Suffix		Enabled, 0x0D,0x0A	0x0D,0x0A: CRLF

Parameter	Factory Default	Remark
Code 128		
Code 128	Enabled	
Minimum Length	1	No less than 1 (including check digit)
Maximum Length	80	
UCC/EAN-128（GS1-128）		
UCC/EAN-128	Enabled	
Minimum Length	1	No less than 1 (including check digit)
Maximum Length	80	
AIM 128		
AIM 128	Disabled	
Minimum Length	1	No less than 1 (including check digit)
Maximum Length	80	
EAN-8		
EAN-8	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Extend to EAN-13	Disabled	
EAN-13		
EAN-13	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
ISSN		
ISSN	Disabled	
ISBN		
ISBN	Disabled	
ISBN Format	ISBN-13	

Parameter	Factory Default	Remark
UPC-E		
UPC-E	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Extend to UPC-A	Disabled	
System Character	Transmit	
UPC-A		
UPC-A	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Transmit Preamble Character	System character	
Interleaved 2 of 5		
Interleaved 2 of 5	Enabled	
Check Digit Verification	Enabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 3 (including check digit)
Maximum Length	100	
ITF-6		
ITF-6	Decode as I25	
Check Digit	Transmit	
ITF-14		
ITF-14	Decode as I25	
Check Digit	Transmit	
Deutsche 14		
Deutsche 14	Decode as I25	
Check Digit	Transmit	
Deutsche 12		
Deutsche 12	Decode as I25	
Check Digit	Transmit	

Parameter	Factory Default	Remark
Matrix 2 of 5		
Matrix 2 of 5	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 2 (including check digit)
Maximum Length	80	
Industrial 25		
Industrial 25	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 2 (including check digit)
Maximum Length	80	
Standard 25		
Standard 25	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 2 (including check digit)
Maximum Length	80	
Code 39		
Code 39	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Start/Stop Characters	Do not transmit	
Code 39 Full ASCII	Enabled	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	50	

Parameter	Factory Default	Remark
Codabar		
Codabar	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Start/Stop Characters	Transmit	
Start/Stop Character Format	ABCD/ABCD	
Minimum Length	4	No less than 1 (including check digit)
Maximum Length	60	
Code 93		
Code 93	Enabled	
Check Digit Verification	Enabled	
Check Digit	Do not transmit	
Minimum Length	2	No less than 1 (including check digit)
Maximum Length	80	
Code 11		
Code 11	Disabled	
Check Digit Verification	One check digit, MOD11	
Check Digit	Do not transmit	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	80	
Plessey		
Plessey	Disabled	
Check Digit Verification	Enabled	
Check Digit	Do not transmit	
Minimum Length	4	No less than 3 (including check digit)
Maximum Length	60	

Parameter	Factory Default	Remark
MSI-Plessey		
MSI-Plessey	Disabled	
Check Digit Verification	One check digit, MOD10	
Check Digit	Do not transmit	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	60	
RSS-14		
RSS-14	Enabled	
AI (Application Identifier)	Transmit	
RSS-Limited		
RSS-Limited	Enabled	
AI (Application Identifier)	Transmit	
RSS-Expand		
RSS-Expand	Enabled	

AIM ID Table

Symbology	AIM ID	Remark
Code 128	]C0	Standard Code 128
UCC/EAN 128 (GS1-128)	]C1	FNC1 is the character right after the start character
AIM 128	]C2	FNC1 is the 2nd character after the start character
EAN-8	]E4	Standard EAN-8
	]E4….]E1…	EAN-8 + 2-Digit Add-On Code
	]E4….]E2…	EAN-8 + 5-Digit Add-On Code
EAN-13	]E0	Standard EAN-13
	]E3	EAN-13 + 2/5-Digit Add-On Code
ISSN	]X5	
ISBN	]X4	
UPC-E	]E0	Standard UPC-E
	]E3	UPC-E + 2/5-Digit Add-On Code
UPC-A	]E0	Standard UPC-A
	]E3	UPC-A + 2/5-Digit Add-On Code
Interleaved 2 of 5	]I0	No check digit verification
	]I1	Transmit check digit after verification
	]I3	Do not transmit check digit after verification
ITF-6	]I1	Transmit check digit
	]I3	Do not transmit check digit
ITF-14	]I1	Transmit check digit
	]I3	Do not transmit check digit
Deutsche 14 Deutsche 12	]X0	
Matrix 2 of 5	]X1	No check digit verification
	]X2	Transmit check digit after verification
	]X3	Do not transmit check digit after verification
Industrial 25	]S0	Not specified
Standard 25	]R0	No check digit verification
	]R8	One check digit, MOD 7; do not transmit check digit
	]R9	One check digit, MOD 7; transmit check digit

Symbology	AIM ID	Remark
Code 39	]A0	Transmit barcodes as is; Full ASCII disabled; no check digit verification
	]A1	One check digit, MOD 43; transmit check digit
	]A3	One check digit, MOD 43; do not transmit check digit
	]A4	Full ASCII enabled; no check digit verification
	]A5	Full ASCII enabled; MOD43; transmit check digit
	]A7	Full ASCII enabled; MOD43; do not transmit check digit
Codabar	]F0	Standard Codabar
	]F1	ABC Codabar
	]F2	Transmit check digit after verification
	]F4	Do not transmit check digit after verification
Code 93	]G0	Not specified
Code 11	]H0	One check digit, MOD11; transmit check digit
	]H1	Two check digits, MOD11/MOD11; transmit check digit
	]H3	Do not transmit check digit after verification
	]H8	Two check digits, MOD11/MOD9; transmit check digit
	]H9	No check digit verification
Plessey	]P0	Not specified
MSI Plessey	]M0	One check digit, MOD10; transmit check digit
	]M1	One check digit, MOD10; do not transmit check digit
	]M7	Two check digits, MOD10 /MOD11; do not transmit check digit
	]M8	Two check digits, MOD10 /MOD11; transmit check digit
	]M9	No check digit verification
RSS-14/RSS-Limited RSS-Expand	]e0	Standard
	]e1	User-defined
	]e2	User-defined
	]e3	User-defined

Reference: ISO/IEC 15424:2008 Information technology – Automatic identification and data capture techniques – Data Carrier Identifiers (including Symbology Identifiers)

Code ID Table

Symbology	Code ID
Code 128	j
UCC/EAN-128	u
AIM 128	f
SETTING 128	t
EAN-8	g
EAN-13	d
ISSN	n
ISBN	B
UPC-E	h
UPC-A	c
Interleaved 2 of 5	e
ITF-6	r
ITF-14	q
Deutsche 14	w
Deutsche 12	l
Matrix 2 of 5(European Matrix 2 of 5)	v
Industrial 25	i
Standard 25	s
Code 39	b
Codabar	a
Code 93	y
Code 11	z
Plessey	p
MSI-Plessey	m
RSS-14	D
RSS-Limited	C
RSS-Expand	R

ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)

Hex	Dec	Char
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)

Hex	Dec	Char
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)

Hex	Dec	Char
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	A
62	98	B
63	99	C
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	| (Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

Digit Barcodes

0 ~ 5

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 0

0

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 1

1

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 2

2

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 3

3

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 4

4

‖‖‖ | ‖‖ | ‖‖‖ | ‖‖‖ |
D 0 0 0 0 0 5

5

6~ 9

‖‖‖‖‖‖‖‖‖‖‖‖‖
D000006

6

‖‖‖‖‖‖‖‖‖‖‖‖‖
D000007

7

‖‖‖‖‖‖‖‖‖‖‖‖‖
D000008

8

‖‖‖‖‖‖‖‖‖‖‖‖‖
D000009

9

A ~ F

||||| ||||| ||||| ||||| |||||
D00000A

A

||||| ||||| ||||| ||||| |||||
D00000B

B

||||| ||||| ||||| ||||| |||||
D00000C

C

||||| ||||| ||||| ||||| |||||
D00000D

D

||||| ||||| ||||| ||||| |||||
D00000E

E

||||| ||||| ||||| ||||| |||||
D00000F

F

Save/Cancel Barcodes

After reading numeric barcode(s), you need to scan the **Save** barcode to save the data. If you scan the wrong digit(s), you can either scan the **Cancel the Last Digit** barcode and then the correct digit, or scan the **Cancel All Digits** barcode and then the digits you want.

For instance, after reading the **Decode Session Timeout** barcode and numeric barcodes "1", "2" and "3", you scan:

Cancel the Last Digit: The last digit "3" will be removed.

Cancel All Digits: All digits "123" will be removed.

Save

Cancel the Last Digit

Cancel All Digits

F1~F12

When the USB HID-KBW feature is enabled, scanning one of the following barcodes will send the corresponding function key.

F1~F6

```
F000000
```
F1

```
F000001
```
F2

```
F000002
```
F3

```
F000003
```
F4

```
F000004
```
F5

```
F000005
```
F6

F7~F12

```
F000006
```
F7

```
F000007
```
F8

```
F000008
```
F9

```
F000009
```
F10

```
F00000A
```
F11

```
F00000B
```
F12

tehnot≡ka

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