



METROLOGIC INSTRUMENTS, INC.

MS2xxx Stratos® Series  
Configuration Addendum



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## TABLE OF CONTENTS

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Important Notes - Before You Start .....	1
Scale Program Mode.....	2
Scale/Load Cell Configuration Bar Codes	
Single or Dual Cable Scale Configuration Bar Codes	
Unit Configuration (Pounds or Kilograms) .....	5
Pole Display Configuration .....	6
Scale Settling Filter Configuration .....	7
Scroll Weight Configuration.....	9
Dual Cable Scale Configuration Bar Codes	
Price Computing Configuration .....	10
Scale Protocols .....	11
Scale COM Port Settings (Baud Rate) .....	14
Scale COM Port Settings (Data Bits & Parity) .....	16
Single Cable Scale Configuration Bar Codes	
Set Scale for Single Cable Communication .....	19
Scanner Configuration Bar Codes	
Dual Cable Scanner Configuration Bar Codes	
Dual Cable Scanner Mode .....	20
Dual Cable Scanner OPOS Mode.....	20
Various Dual Cable Scanner Mode .....	21
IBM 3 <sup>rd</sup> Generation 46xx .....	22
IBM OEM Full Speed USB .....	22
Single Cable Scanner Protocols for P.O.S. Compatibility	
MSS Global .....	23
ISS45 .....	24
OPOS.....	25
Retailix / NCR.....	26
Retailix / OPOS .....	27
IT Retail.....	28

## TABLE OF CONTENTS

---

IBM Self Checkout System .....	29
Various RS232 Single Cable Codes .....	30
IBM 3 <sup>rd</sup> Generation 46xx .....	31
IBM OEM Full Speed USB .....	32
Additional POS Data Formatting	
Full Speed USB Table Top/Handheld .....	33
Special Function ACK .....	35
Prefix/Suffix .....	36
3x-30 Acknowledge Responses .....	37
Special Function Command Responses .....	38
BCC in POS communications .....	42
3 Scale Status Bytes .....	43
Scale Options .....	44
Remote Display .....	45
StratosSTATS .....	46
Additional POS Related Functions	
Scanner Beep on Weight Sent .....	49
Restrict In-Store Codes .....	50
Scale Shadow Mode .....	51
Scanner Razz on Not-On-File .....	52
Additional Scanner Configuration Bar Codes	
Horizontal Depth of Field .....	53
Vertical Depth of Field .....	55
Auxiliary Port	
Stratos School .....	57
Quick Start for a Secondary Metrologic Scanner .....	58
EAS Bar Codes	
EAS Device Types .....	60
EAS Timeout .....	63
EAS Connection .....	68

# TABLE OF CONTENTS

---

Continuous Mode .....	71
EAS Deactivation .....	72
Sensormatic ScanMax Pro.....	75
Scanner Test Bar Codes	
Supplemental Tests.....	77
Display Software Numbers.....	77
Contact Information and Office Locations.....	78

## IMPORTANT NOTES - BEFORE YOU START

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It is important to carefully read the notes marked with a ⓘ symbol on the pages contained in this manual. Not all configuration codes are designed to be used for both a single and dual cable scanner/scale system. Many of the configuration bar codes require additional steps before the unit can be configured and placed into service. Most of the bar codes in this addendum were designed to be used with a Stratos model that includes a scale. The text marked with a ⓘ symbol will provide important additional information about the restrictions and uses of the bar codes shown.

### All of the bar codes in this manual require:

- The scanner/scale to have a firmware number of 14996 or higher
- All configuration bar codes must be scanned with the vertical window

### The bar codes (starting with 996) located on pages 5 - 19 also require the scanner/scale to:

- Be in scale program mode (see *page 2*)
- Be calibrated, sealed and certified by local Weights and Measures authorities **after** the scale configuration process has been completed. The scanner/scale can not be placed in service until it is sealed and certified by the proper authorities.

For further details on calibration procedures for Weights and Measures certification, refer to *the Scale Operation: Calibration* section of the Stratos Installation and User's Guide.



The certification of the weighing mechanism of the scale version of this scanner is subject to federal, state and local Weights and Measures statutes and regulations and can only be performed by authorized government agencies and/or their duly registered agents. Each time the scale or weighing mechanism is calibrated, it should be properly sealed with a paper seal or a wire seal prior to being placed into service in commerce.

It is the responsibility of the owner of the scale to confirm compliance with the relevant Weights and Measures statutes and regulations applicable in your area by checking with the appropriate government agency before placing a newly calibrated unit into service or removing any official seals.

## SCALE PROGRAM MODE



The following steps are **only** required for the scale configuration bar codes located on pages 5 - 19 (*bar codes beginning with 996.*)

1. **Power down** the scanner/scale. Then, temporarily remove the scale platter and place it in a safe location.

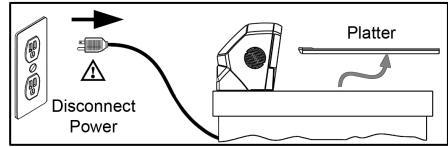


Figure 1.

2. **Cut and remove** the security seal over the program/calibration switch cover. See *Figure 2* below for seal location on the StratosE and the StratosH models. See *Figure 3* on page 3 for the seal location on the StratosS.



Once the security seal is cut the unit **cannot** be placed in service until it is calibrated, sealed and certified by local Weights and Measures authority.

3. **Remove** the M3 screw securing the switch cover in place. Store the cover and screw in a safe location. They will be needed again after the scale is configured and calibrated.



Always follow all Electro-Static Discharge (ESD) procedures when exposing the internal scanner/scale components.

4. **Enter the scale program mode** by sliding the switch to the *program* position. See *Figure 2* below for the switch location on the StratosE and StratosH. See *Figure 3* on page 3 for the switch location on the StratosS.

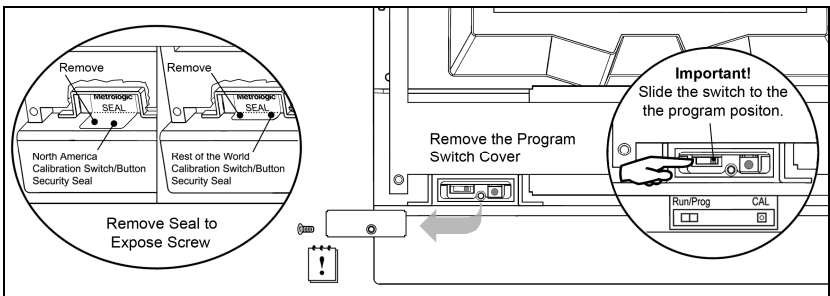


Figure 2. StratosE and StratosH Calibration Seal and Switch Location

## SCALE PROGRAM MODE

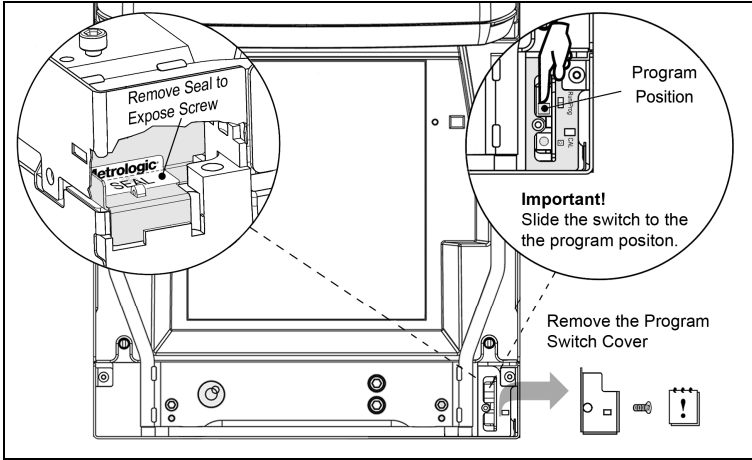


Figure 3. StratosS Calibration Seal and Switch Location

5. **Disconnect the scale-to-host RS232 cable from the unit (dual cable interface only.)**

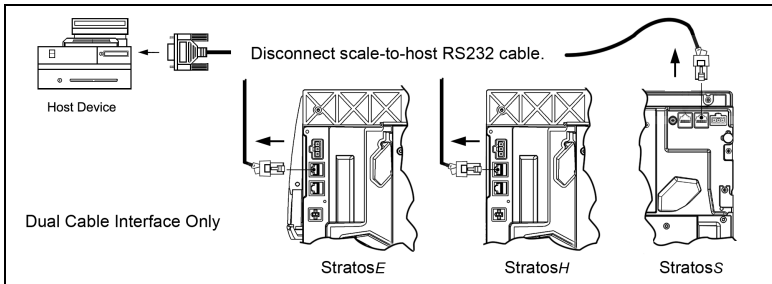


Figure 4. Disconnect scale-to-host RS232 Cable

6. **Reinstall the platter and connect AC power to the scanner.**



Check the AC input requirements of the power supply to make sure the voltage matches the AC outlet. The outlet should be located near the equipment and be easily accessible.



Metrologic recommends using a switched AC outlet. The switch should be located on the operator's side of the checkout counter in close proximity to the scanner/scale to facilitate calibration and service of the unit.



To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (Safety Extra Low Voltage) according to EN/IEC 60950-1.

To maintain compliance with standard CSA C22.2 No. 60950-1/UL 60950-1 and norm EN/IEC 60950-1, the power source should meet applicable performance requirements for a limited power source.



## SCALE PROGRAM MODE

7. If the system is equipped with a remote scale display, it will read H - - -.
8. Use the vertical window to **scan** the desired **scale configuration bar codes**, located on pages 5 - 19.

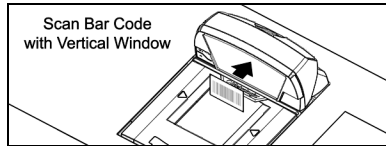


Figure 5.

9. **Reconnect** the scale-to-host RS232 cable to the scanner (*dual cable interface only*.)

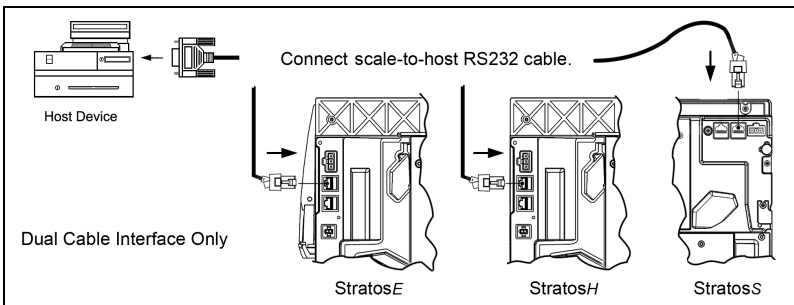


Figure 6.

10. **The scale must now be calibrated, tested and certified by local Weights and Measures authorities before it can be placed in service.**

For further details on calibration procedures for Weights and Measures certification, refer to *the Scale Operation: Calibration* section of the Stratos Installation and User's Guide.



The certification of the weighing mechanism of the scale version of this scanner is subject to federal, state and local Weights and Measures statutes and regulations and can only be performed by authorized government agencies and/or their duly registered agents. Each time the scale or weighing mechanism is calibrated, it should be properly sealed with a paper seal or a wire seal prior to being placed into service in commerce.

It is the responsibility of the owner of the scale to confirm compliance with the relevant Weights and Measures statutes and regulations applicable in your area by checking with the appropriate government agency before placing a newly calibrated unit into service or removing any official seals.

Type of seal to be used will depend on the guidelines specified by the local Weights and Measures authorities.

## SCALE/LOAD CELL CONFIGURATION BAR CODES

---

### Single or Dual Cable Scale Configuration Bar Codes

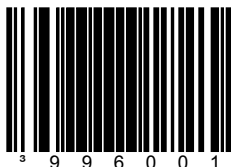
#### Unit Configuration (Pounds or Kilograms)



The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

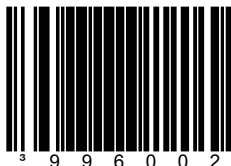
The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = Pounds



Set the scale measuring range from 0.00 to 30.00 **pounds**.

Scale = Kilograms



Set the scale measuring range from 0.000 to 15.000 **kilograms**.

## SCALE/LOAD CELL CONFIGURATION BAR CODES

### Single or Dual Cable Scale Configuration Bar Codes

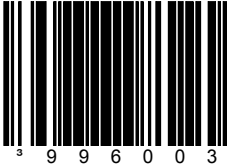
#### Pole Display Configuration



The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

The MS2xx0 **must** be in scale program mode to use these bar codes.

#### Scale Has Display



Set the scale to **use** a remote display to show all scale activity.

A remote display **must** be plugged into the *Scale RS485 to Display* connector on the MS2xx0 (see Figure 7) for this feature to function properly.

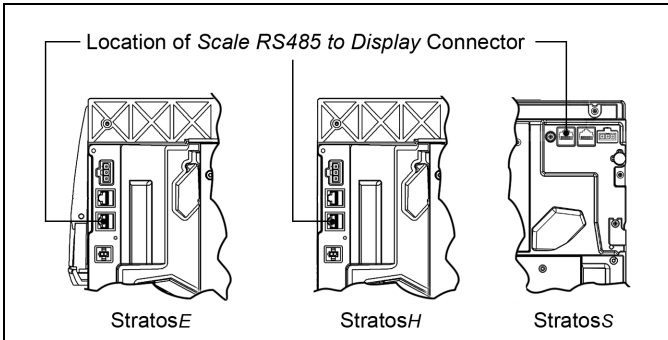
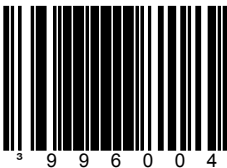


Figure 7. Location of Scale RS485 to Display Connector

#### Scale Has No Display



Set the scale to **not use** a remote display. All weights are expected on a POS terminal display.

A remote display **can not** be plugged into the *Scale RS485 to Display* connector on the scanner/scale (see Figure 7) or this feature will not function properly.

### Single or Dual Cable Scale Configuration Bar Codes

#### Scale Settling Filter Configuration

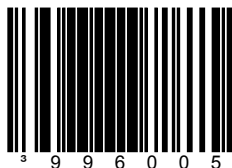


The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

The MS2xx0 **must** be in scale program mode to use these bar codes.

The scale's filter setting allows the unit to withstand a certain amount of vibration from the checkout counter. A stronger filter allows for more vibration to be absorbed but the weight may take a little longer to settle. Scales are normally shipped with a loose filter.

\* Scale = Loose Filter



Loose filter setting for low vibration environments.

\* *Factory Default Setting*

## Single or Dual Cable Scale Configuration Bar Codes

### Scale Settling Filter Configuration



The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = Medium Filter



Medium filter setting for moderate vibration environments.

Scale = Strong Filter



Strong filter setting for high vibration environments.

### Single or Dual Cable Scale Configuration Bar Codes

#### Scroll Weight Configuration

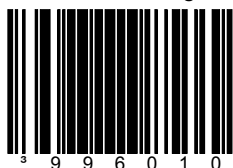


The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

The MS2xx0 **must** be in scale program mode to use these bar codes.

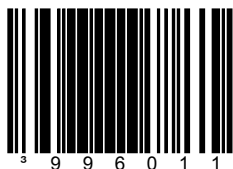
These bar codes only affect the pole display.

Scale = Scroll Settling Weight



Scroll the weight on the display showing the weight as it changes.

Scale = Blank Non-Steady



Blank the display weight as it changes.  
Display stable weights only.

## SCALE/LOAD CELL CONFIGURATION BAR CODES

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### Dual Cable Scale Configuration Bar Codes

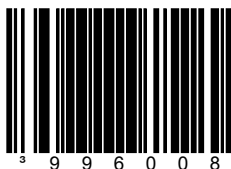
#### Price Computing Configuration



The following bar codes are only used when the scale is in **Dual Cable** mode.

The MS2xx0 **must** be in scale program mode to use these bar codes.

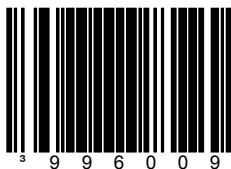
\* Scale = No Price Computing      Scale is not the price computing type.



*\* Factory Default Setting*

Scale = Price Computing

Scale is the price computing type.



### Dual Cable Scale Configuration Bar Codes

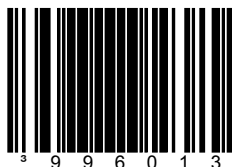
#### Scale Protocols



The following bar codes will change *scale* parameters intended for a **Dual Cable** environment. To place the *scanner* in **Dual Cable** mode, please refer to page 20.

The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = EPOS Protocol

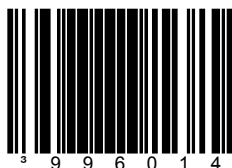


Set the scale RS232 protocol to Serial EPOS.

Communication Port Settings:

- 2400 Baud
- 7 Data Bits
- 1 Stop Bit
- Even Parity

Scale = EPOS2 Protocol



Set the scale RS232 protocol to Modified Serial EPOS.

This Protocol does not require the POS terminal to send the weight back to the scale for validation.

Communication Port Settings:

- 2400 Baud
- 7 Data Bits
- 1 Stop Bit
- Even Parity



### Dual Cable Scale Configuration Bar Codes

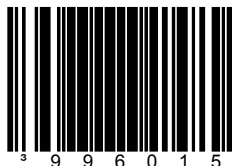
#### Scale Protocols



The following bar codes will change *scale* parameters intended for a **Dual Cable** environment. To place the *scanner* in **Dual Cable** mode, please refer to page 20.

The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = NCI-ECR Protocol

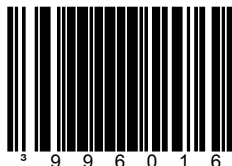


Set the scale RS232 protocol to NCI-ECR.

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

Scale = NCI Protocol



Reserved for Future NCI Protocol Variation

### Dual Cable Scale Configuration Bar Codes

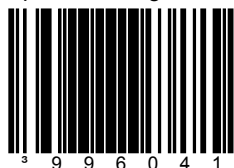
#### Scale Protocols



The following bar codes will change *scale* parameters intended for a **Dual Cable** environment. To place the *scanner* in **Dual Cable** mode, please refer to page 20.

The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = EMEA  
Special Configuration



Set the scale to Avery EPOS protocol, kilograms, with a remote display, loose filter, no price computing, and scroll weight.

Communication Port Settings:

- 2400 Baud
- 7 Data Bits
- 1 Stop Bit
- Even Parity

### Dual Cable Scale Configuration Bar Codes

#### COM Port Settings (Baud Rate)

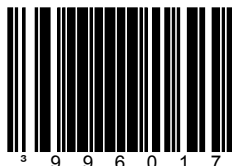


The following bar codes will change *scale* parameters intended for a **Dual Cable** environment.

If a *Scale Protocol* bar code from page 11 or 13 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

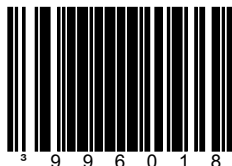
The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = 2400 Baud Rate



Set the scale baud rate for dual cable applications to **2400 baud**.

Scale = 9600 Baud Rate



Set the scale baud rate for dual cable applications to **9600 baud**.

### Dual Cable Scale Configuration Bar Codes

#### COM Port Settings (Baud Rate)

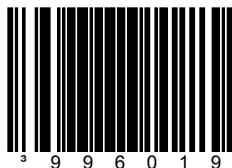


The following bar codes will change *scale* parameters intended for a **Dual Cable** environment.

If a *Scale Protocol* bar code from page 11 or 13 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

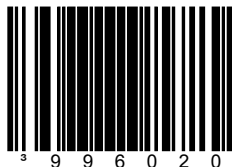
The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = 19200 Baud Rate



Set the scale baud rate for dual cable applications to **19200 baud**.

Scale = 38400 Baud Rate



Set the scale baud rate for dual cable applications to **38400 baud**.

### Dual Cable Scale Configuration Bar Codes

#### COM Port Settings (Data Bits & Parity)

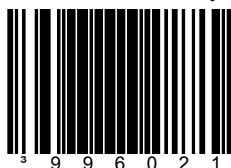


The following bar codes will change *scale* parameters intended for a **Dual Cable** environment.

If a *Scale Protocol* bar code from page 11 or 13 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

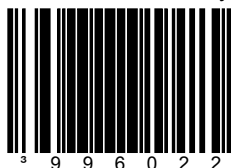
The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = 7 Data Bits,  
Odd Parity



Set the scale communication parameters to  
7 data bits, odd parity.

Scale = 7 Data Bits,  
Even Parity



Set the scale communication parameters to  
7 data bits, even parity.

### Dual Cable Scale Configuration Bar Codes

#### COM Port Settings (Data Bits & Parity)

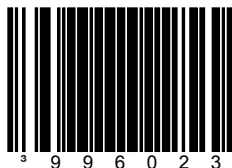


The following bar codes will change *scale* parameters intended for a **Dual Cable** environment.

If a *Scale Protocol* bar code from page 11 or 13 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

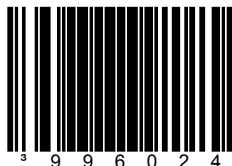
The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = 8 Data Bits, No Parity



Set the scale communication parameters to 8 data bit, no parity.

Scale = Odd Parity



Set the scale communication to odd parity.

### Dual Cable Scale Configuration Bar Codes

#### COM Port Settings (Data Bits & Parity)

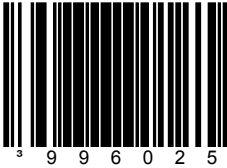


The following bar codes will change *scale* parameters intended for a **Dual Cable** environment.

If a *Scale Protocol* bar code from page 11 or 13 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

The MS2xx0 **must** be in scale program mode to use these bar codes.

Scale = Even Parity



Set the scale communication to even parity.

Scale = No Parity



Set the scale communication to no parity.

### Single Cable Scale Configuration Bar Codes

#### Set Scale for Single Cable Communication

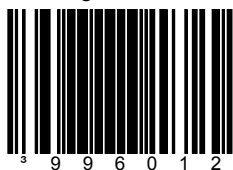


The MS2xx0 **must** be in scale program mode to use this bar code.

If your application requires single cable communication, scan the following bar code to set the scale configuration to the single cable defaults as required by the scanner.

Scale = Single Cable Interface

Set the scale to communicate via the single-cable interface.





### Dual Cable Scanner Configuration Bar Codes

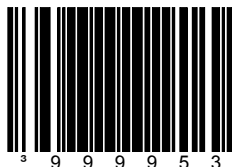
#### Dual Cable Scanner Mode



The following bar codes can be used to place, as well as configure, the *scanner* in **Dual Cable** mode.

The MS2xx0 **does not** need to be in scale program mode to use the following bar codes.

Scanner = Dual Cable Mode



Places the *scanner* in **Dual Cable** mode.

In a dual cable environment, the scanner and scale work independently. In this mode the host must have a dedicated RS232 port to receive the scale data and the bar code data is sent via its own cable to a separate communication port.

Communication Port Settings:

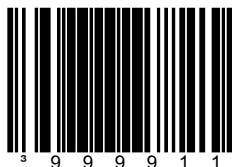
- 9600 Baud, 8 Data Bits, 1 Stop Bit, No Parity

There are two methods of configuring the **scanner** to a stand-alone protocol:

- Scan the Dual Cable Mode bar code on this page (if a scale is used)  
or
- If no scale is required, scan one of the single cable protocols on pages 23 - 32 and then scan the *No Scale* bar code on page 44.

#### Dual Cable Scanner OPOS Mode

Scanner Only  
Dual Cable OPOS Defaults



Use this bar code when the scanner is to be setup using the OPOS drivers in the dual cable mode.

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

### Dual Cable Scanner Configuration Bar Codes

#### Various Dual Cable Scanner Mode



The following bar codes can be used to configure a **Dual Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

REWE



Dual Cable RS232 - REWE

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 2 Stop Bit
- Space Parity

TESCO UK



Dual Cable RS232 – TESCO UK

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- Odd Parity

## Dual Cable Scanner Configuration Bar Codes

### IBM 3<sup>rd</sup> Generation 46xx and IBM OEM Full Speed USB



The following bar codes can be used to configure a **Dual Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

IBM 3<sup>rd</sup> Generation  
Communication

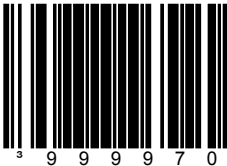


When scanned the Stratos will operate as a table top scanner only.

Terminal configuration, IBM 4690.OS  
terminal device group configuration  
screen select:

#1 scanner or  
#3 scanner.

IBM OEM Full Speed USB  
Communication Defaults



When scanned the Stratos will operate as a table top scanner only.

### Single Cable Protocols for POS Compatibility

#### MSS Global



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

MSS Global, English

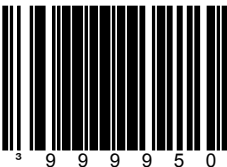


Scanner/Scale, **Single Cable** RS232  
MSS Global Retail, English Units

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

MSS Global, Metric



Scanner/Scale, **Single Cable** RS232 MSS  
Global Retail, Metric Units

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

### Single Cable Protocols for POS Compatibility

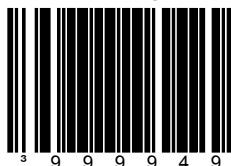
#### ISS45



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

ISS45, English

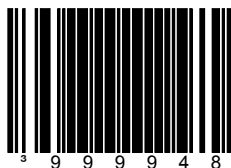


Scanner/Scale, **Single Cable** RS232  
ISS45, English Units

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Even Parity

ISS45, Metric



Scanner/Scale, **Single Cable** RS232  
ISS45, Metric Units

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Even Parity

### Single Cable Protocols for POS Compatibility

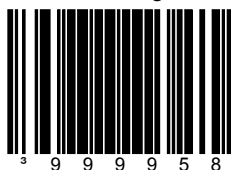
#### OPOS



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

OPOS, English

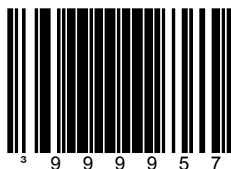


Scanner/Scale **Single Cable** RS232 OPOS,  
English Scale Defaults

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

OPOS, Metric



Scanner/Scale **Single Cable** RS232 OPOS,  
Metric Scale Defaults

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

### Single Cable Protocols for POS Compatibility

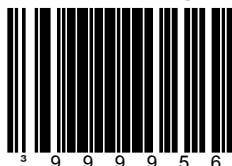
#### Retailix/NCR



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

Retailix/NCR English

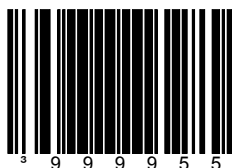


Scanner/Scale **Single Cable** RS232  
Retailix/NCR Communication, English

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

Retailix/NCR Metric



Scanner/Scale **Single Cable** RS232  
Retailix/NCR Comm, Metric

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

### Single Cable Protocols for POS Compatibility

#### Retailix/OPOS



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

Retailix / OPOS Metric



Scanner/Scale **Single Cable** RS232  
Retailix / OPOS Communication, Metric

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity



### Single Cable Protocols for POS Compatibility

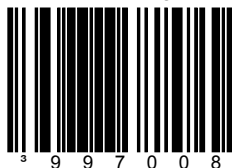
#### IT Retail



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

IT Retail, English

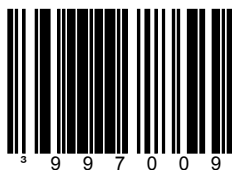


Scanner/Scale **Single Cable** RS232  
IT Retail, English

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

IT Retail, Metric



Scanner/Scale **Single Cable** RS232  
IT Retail, Metric

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

### Single Cable Protocols for POS Compatibility

#### IBM Self Checkout System



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

IBM Self Checkout System,  
English



Scanner/Scale **Single Cable** RS232 -  
IBM Self Checkout System, English

Communication Port Settings:

- 19200 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

IBM Self Checkout System,  
Metric



Scanner/Scale **Single Cable** RS232 -  
IBM Self Checkout System, Metric

Communication Port Settings:

- 19200 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

### Single Cable Protocols for POS Compatibility

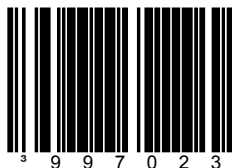
#### Various RS232 Single Cable Codes



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

Morrison's Tec Metric

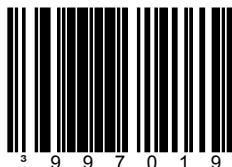


Scanner/Scale Single Cable RS232 –  
Morrison's with Tec Display, Metric

Communication Port Settings:

- 9600 Baud
- 7 Data Bits
- 1 Stop Bit
- Odd Parity

Reliance India Metric



Scanner/Scale Single Cable RS232 -  
Reliance India, Metric

Communication Port Settings:

- 9600 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity

### Single Cable Protocols for POS Compatibility

#### IBM 3<sup>rd</sup> Generation 46xx



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

IBM 3<sup>rd</sup> Generation 46xx,  
English<sup>†</sup>



Scanner/Scale **Single Cable**  
IBM 46xx<sup>†</sup>, RS485,  
English (lbs.)

- † Terminal Configuration, IBM 4690.OS Terminal Device Group Configuration screen select:

#2 Scanner with integrated scale  
or  
#4 4696 scanner/scale

IBM 3<sup>rd</sup> Generation 46xx,  
Metric<sup>†</sup>



Scanner/Scale **Single Cable**  
IBM 46xx<sup>†</sup>, RS485  
Metric (kg)

### Single Cable Protocols for POS Compatibility

#### IBM OEM Full Speed USB



The following bar codes can be used to configure a **Single Cable** MS2xx0.

The following codes **do not** require that the MS2xx0 to be in scale program mode.

IBM OEM  
Full Speed USB, English



Table Top Scanner/Scale **Single Cable**,  
IBM OEM Full Speed USB,  
4-Digit Weight Mode, English (lbs.)

IBM OEM  
Full Speed USB, Metric

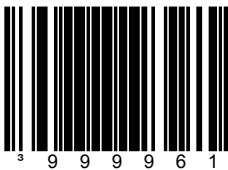


Table Top Scanner/Scale **Single Cable**,  
IBM OEM Full Speed USB,  
5-Digit Weight Mode, Metric (kg)

### Additional POS Data Formatting

#### Full Speed USB Table Top/Handheld



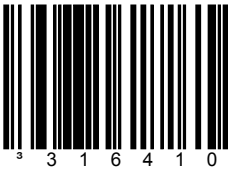
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Scanner 4B Handheld



Full Speed USB interface to 4B00h handheld usage.

Scanner 4A Flatbed



Full Speed USB interface to 4A00h table top usage.

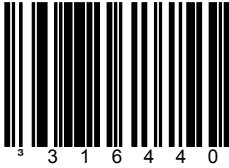
### Additional POS Data Formatting

#### Full Speed USB Table Top/Handheld



The following codes **do not** require that the MS2xx0 to be in scale program mode.

Scanner/Scale 4A/6E  
Table Top



Full Speed USB interface to the  
4A00h/6E00h table top scanner/scale  
usage.

This option is only compatible with Stratos  
models that have a scale.

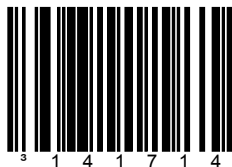
### Additional POS Data Formatting

#### Special Function ACK



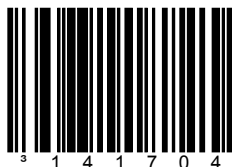
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Enable Special  
Function ACK Answer



Answer simple special functions with ACK.

\* Disable Special  
Function ACK



*\* Factory Default Setting*



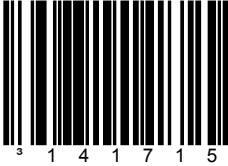
### Additional POS Data Formatting

#### Prefix/Suffix



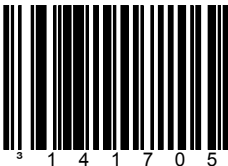
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Use Protocol Prefix/Suffix



Add protocol prefixes and suffixes to the bar code.

\* Program the  
Prefix/Suffix Separate



*\* Factory Default Setting*

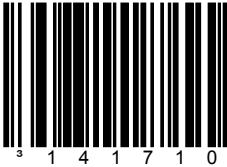
### Additional POS Data Formatting

#### 3x-30 Acknowledge Responses



The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### No 3x-30 Answer



This bar code will **inhibit** all 'simple acknowledge' (3x-30) answers to POS or OPOS commands.

##### \*3x-30 Answer



The scanner will answer all NCR and OPOS commands that require a 3x-30 acknowledgement.

*\* Factory Default Setting*

## Additional POS Data Formatting

### Special Function Command Responses



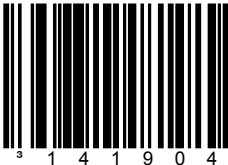
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Spec Func Ans 3x30



Answer Special Function commands in the 3x-30 format as opposed to the Ack / Nak which is the norm.

\*Spec Func Ans Ack



Answer Special Function commands in the Ack / Nak format.

*\* Factory Default Setting*

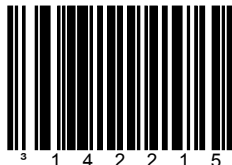
### Additional POS Data Formatting

#### Special Function Command Responses



The following codes **do not** require that the MS2xx0 to be in scale program mode.

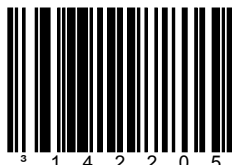
##### Spec Func 30-30 Status



Returns Special Function commands in the 30-30 status as opposed to the 33-30 status.

Note: Requires 'Spec Func Ans 3x-30' on page 38 to be set.

##### \*No Spec Func 30-30 Status



Disables redirection of Special Function 3x-30 status to 30-30 status.

*\* Factory Default Setting*

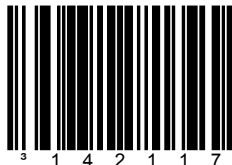
### Additional POS Data Formatting

#### Special Function Command Responses



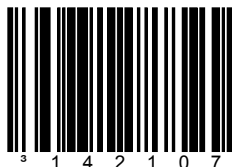
The following codes **do not** require that the MS2xx0 to be in scale program mode.

No Command Reject Answer



This bar code will ignore sending a command reject answer to the POS mode.

\*Send Command Reject Answer



This bar code will send command reject answer to the POS if the command is rejected by the scanner.

*\* Factory Default Setting*

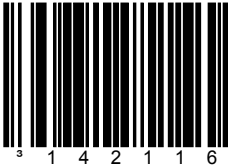
### Additional POS Data Formatting

#### Special Function Command Responses



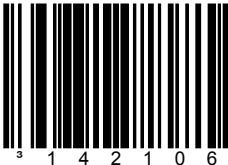
The following codes **do not** require that the MS2xx0 to be in scale program mode.

No Spec Func Answer



This bar code will ignore sending a special function response answer in POS mode.

\*Spec Func Answer



This bar code will send a special function response answer to the POS.

*\* Factory Default Setting*

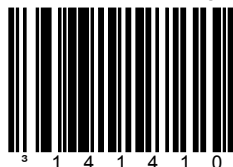
### Additional POS Data Formatting

#### BCC in POS communications



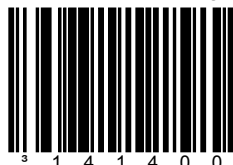
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Skip BCC in messages



This bar code will tell the scanner to NOT expect or transmit the Block Check Character in all message transmissions.

\*Add BCC in messages



The scanner will expect and answer all messages with the Block Check Character included.

*\* Factory Default Setting*

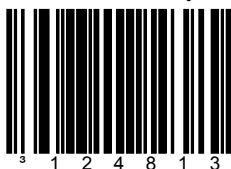
### Additional POS Data Formatting

#### 3 Scale Status Bytes



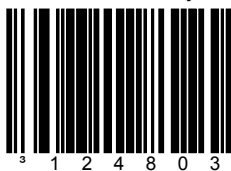
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Enable  
3 Scale Status Bytes



Required for applications where the host system display is the primary scale display and there is no remote pole display connected directly to the scanner/scale unit.

Disable  
3 Scale Status Bytes





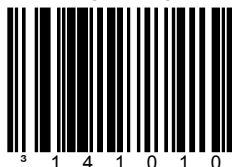
### Additional POS Data Formatting

#### Scale Options



The following codes **do not** require that the MS2xx0 to be in scale program mode.

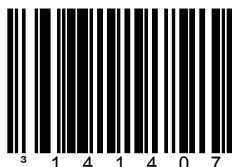
5-Digit Weight



Sets the English Mode weight to 5-digits, as in xx.yyy pounds.

In order to work properly, this bar code must be scanned **AFTER** scanning one of the English configuration bar codes found on pages 23 - 32.

No Scale



Scan the *No Scale* bar code:

1. If no scale is installed and one of the single cable protocol bar codes found on pages 23 - 32 has already been scanned.
2. If the scale is in a dual cable environment and one of the single cable protocol bar codes found on pages 23 - 32 has already been scanned.

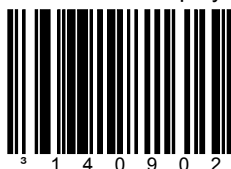
### Additional POS Data Formatting

#### Remote Display



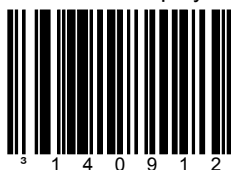
The following codes **do not** require that the MS2xx0 to be in scale program mode.

No Remote Display



When no remote display is installed, scan the *No Remote Display* bar code AFTER scanning one of the configuration bar codes found on pages 23 - 32 to remove the scale's display from the scanner memory.

Remote Display



Add remote display to the **scanner's** memory.

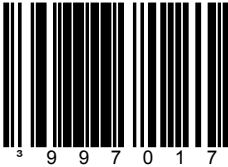
### Additional POS Data Formatting

#### StratosSTATS



The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### Activate StratosSTATS



This bar code sets:

- StratosSTATS bar code data formatting active.
- Bar code Attempt Interval to 0.5 seconds.
- Time to find supplements (code 128) to 0.3 seconds.

Use StratosSTATS monitor to test this output format. When used with a POS, it must have the capability to parse and recognize the additional data.

##### \*StratosSTATS Off



Remove StratosSTATS data formatting from the bar code output transmission.

*\* Factory Default Setting*

### Additional POS Data Formatting

#### StratosSTATS



The following codes **do not** require that the MS2xx0 to be in scale program mode.



**Do not** scan these bar codes unless instructed by a Metrologic Representative.

Dual Stats Xmit

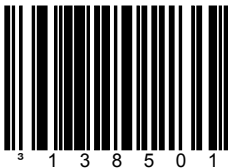


Allows non-RS232 interfaces transmit normally without StratosSTATS and concurrently RS232 interfaces transmit with StratosSTATS.

Recommended RS232 Settings:

- 38400 Baud
- 8 Data Bits
- 1 Stop Bit
- No Parity
- No Inter-character Delay

\*No Dual Stats Xmit



*\* Factory Default Setting*

### Additional POS Data Formatting

#### StratosSTATS

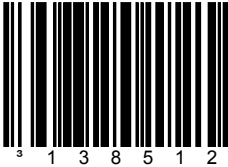


The following codes **do not** require that the MS2xx0 to be in scale program mode.



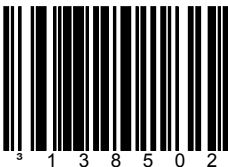
**Do not** scan these bar codes unless instructed by a Metrologic Representative.

Dual Xmit Carriage Return



This bar code enables a secondary carriage return suffix to be used only for the dual StratosSTATS RS232 transmission.

\*No Dual Xmit Carriage Return



Resets StratsSTATS RS232 dual transmission suffix.

*\* Factory Default Setting*

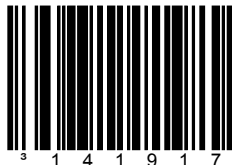
### Additional POS Related Functions

#### Scanner Beep on Weight Sent



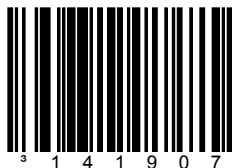
The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### Beep on Weight



Request scanner beep when a successful weight is sent. This code should only be used for 'weight on demand' applications. If used with periodic weight request applications, the beeper will be continuously active (ON).

##### \*Disable Beep on Weight



When no beep on weight is desired.

*\* Factory Default Setting*

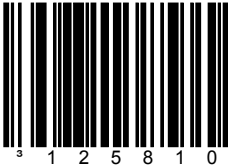
## Additional POS Related Functions

### Restrict In-Store Codes



The following codes **do not** require that the MS2xx0 to be in scale program mode.

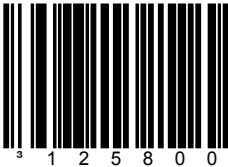
#### Restrict In-Store Codes



This bar code places tighter restrictions on in-store codes. These codes are:

EAN13 Sys2  
UPCA Sys2 and Sys4

#### \*No Restrict In-Store Codes



Disable restrictions on in-store codes.

*\* Factory Default Setting*

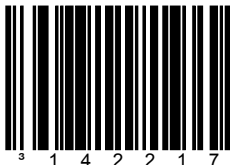
### Additional POS Related Functions

#### Scale Shadow Mode



The following codes **do not** require that the MS2xx0 to be in scale program mode.

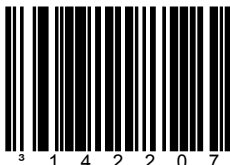
##### Scale Shadow Mode



This bar code sets the scale to the highest priority to allow for frequent scale - POS commands.

This bar code is only to be used in single cable scale mode.

##### \*No Scale Shadow Mode



Disables the Scale Shadow Mode.

*\* Factory Default Setting*



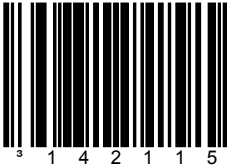
### Additional POS Related Functions

#### Scanner Razz on Not-On-File



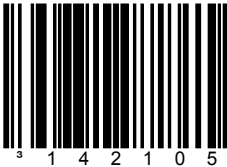
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Razz on Not-On-File



This bar code changes the audible to a razz signal when a Not-On-File command is received.

\*Beep on Not-On-File



This bar code restores the beep as the Not-On-File audible.

*\* Factory Default Setting*

### Additional Scanner Configuration Bar Codes

#### Horizontal Depth of Field

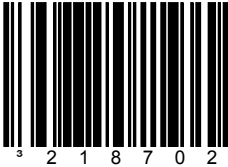


The following codes **do not** require that the MS2xx0 to be in scale program mode.



**Do not** scan these bar codes unless instructed by a Metrologic Representative.

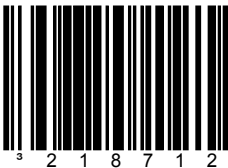
#### \*Horizontal High DOF



This bar code sets the DOF for all horizontal laser channels to High DOF, which allows the farthest scanning.

*\* Factory Default Setting*

#### Horizontal Medium DOF



This bar code sets the DOF for all horizontal laser channels to Medium DOF.

### Additional Scanner Configuration Bar Codes

#### Horizontal Depth of Field

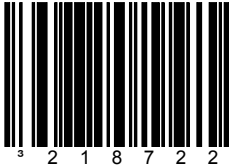


The following codes **do not** require that the MS2xx0 to be in scale program mode.



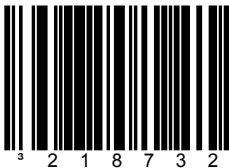
**Do not** scan these bar codes unless instructed by a Metrologic Representative.

Horizontal Close DOF



This bar code sets the DOF for all horizontal laser channels to Close DOF.

Horizontal Ultra Close DOF



This bar code sets the DOF for all horizontal laser channels to Ultra Close DOF.

### Additional Scanner Configuration Bar Codes

#### Vertical Depth of Field

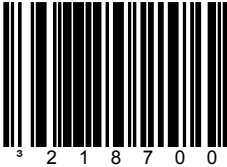


The following codes **do not** require that the MS2xx0 to be in scale program mode.



**Do not** scan these bar codes unless instructed by a Metrologic Representative.

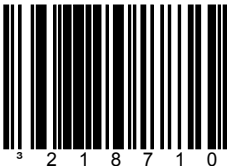
\*Vertical High DOF



This bar code sets the DOF for the vertical laser channels to High DOF, which allows the farthest scanning.

*\* Factory Default Setting*

Vertical Medium DOF



This bar code sets the DOF for vertical laser channels to Medium DOF.

### Additional Scanner Configuration Bar Codes

#### Vertical Depth of Field

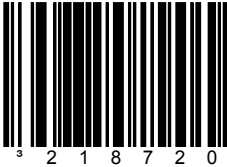


The following codes **do not** require that the MS2xx0 to be in scale program mode.



**Do not** scan these bar codes unless instructed by a Metrologic Representative.

Vertical Close DOF



This bar code sets the DOF for the vertical laser channels to Close DOF.

Vertical Ultra Close DOF



This bar code sets the DOF for vertical laser channels to Ultra Close DOF.

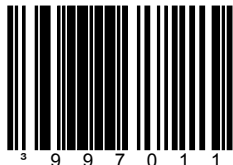
### Auxiliary Port

Stratos**SCHOOL**™



The following codes **do not** require that the MS2xx0 to be in scale program mode.

#### Auxiliary History Report



The Auxiliary port may be used to download or clear data to Stratos**SCHOOL**™.

The two commands that can be used are Upload Scanner Data and Clear Scanner Data within the Serial Program Interface box on the Stratos**SCHOOL**™ screen.

Auxiliary Program Cable  
(MLPN 57-57008x-N-3) is required  
for this feature.

### Auxiliary Port

#### Quick Start for a Secondary Metrologic Scanner

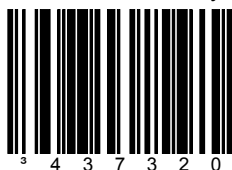


The following codes **do not** require that the MS2xx0 to be in scale program mode.

#### STEP 1

Use the **Stratos** to scan the following bar code. This bar code will configure the Stratos' auxiliary port to accept a Metrologic scanner as the secondary scanner.

Enable Stratos Auxiliary Port



The auxiliary input port's data format must match the main output format of the secondary scanner

#### STEP 2

Configure the secondary scanner to match the auxiliary port's data format. Use the **Secondary Scanner** to scan the following bar codes in the order shown.

Enter Configuration Mode



Enable Auxiliary Output



### Auxiliary Port

#### Quick Start for a Secondary Metrologic Scanner

*Configuration sequence continued from previous page.*

Set Stratos Format



Disable Secondary  
Scanner Beeper



Enable Communication  
Time Out



Disable CR Suffix



Disable LF Suffix



Exit Configuration Mode





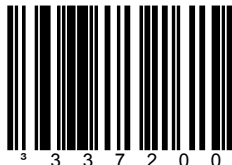
### EAS Bar Codes

#### EAS Device Types



The following codes **do not** require that the MS2xx0 to be in scale program mode.

\*No EAS Device

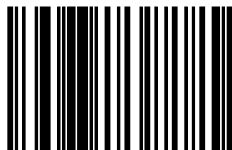


<sup>s</sup> 3 3 3 7 2 0 0

No EAS device is connected.

*\* Factory Default Setting*

EAS Device Type 1



<sup>s</sup> 3 3 3 7 2 1 0

## EAS Bar Codes

### EAS Device Types



The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS Device Type 2



EAS Device Type 3



## EAS Bar Codes

### EAS Device Types



The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS Device Type 4



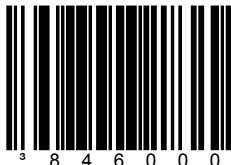
### EAS Bar Codes

#### EAS Timeout



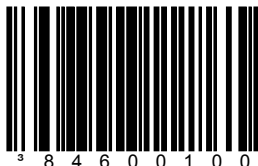
The following codes **do not** require that the MS2xx0 to be in scale program mode.

\*EAS = 0 seconds



*\* Factory Default Setting*

EAS = 1 second



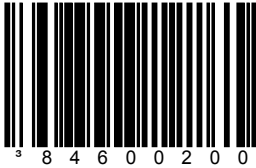
## EAS Bar Codes

### EAS Timeout

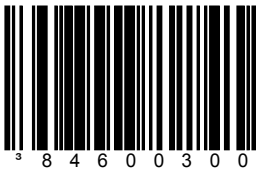


The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS = 2 seconds



EAS = 3 seconds



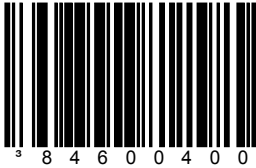
## EAS Bar Codes

### EAS Timeout

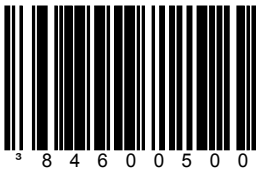


The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS = 4 seconds



EAS = 5 seconds



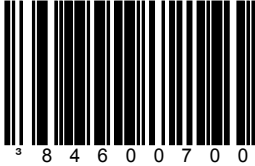
## EAS Bar Codes

### EAS Timeout

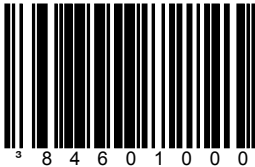


The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS = 7 seconds



EAS = 10 seconds



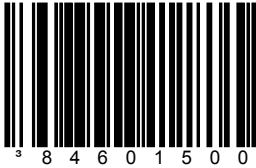
## EAS Bar Codes

### EAS Timeout

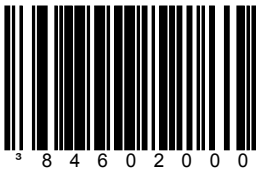


The following codes **do not** require that the MS2xx0 to be in scale program mode.

EAS = 15 seconds



EAS = 20 seconds





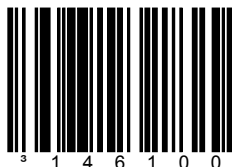
### EAS Bar Codes

#### EAS Connection



The following codes **do not** require that the MS2xx0 to be in scale program mode.

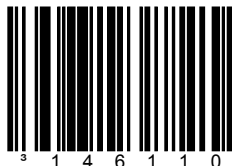
\*EAS Digital Aux Port



The EAS signals use the RTS and CTS line of the Auxiliary RS232 In connector.

*\* Factory Default Setting*

EAS Digital Host Port



The EAS signals use the RTS and CTS lines of the scanner RS232 to Host connector.

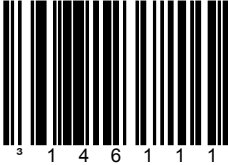
### EAS Bar Codes

#### EAS Connection



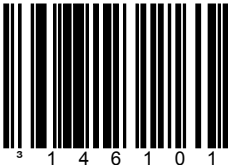
The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### EAS RS232 on Aux Port



This bar code allows the EAS RS232 signal to use the Tx Out and Rx In lines of the scanner to Aux RS232 In connector.

##### \*No EAS RS232 on Aux Port



There is no EAS RS232 signal (Tx Out and Rx In) used on the scanner Aux RS232 In connector.

*\* Factory Default Setting*

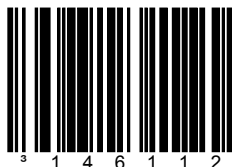
### EAS Bar Codes

#### EAS Connection



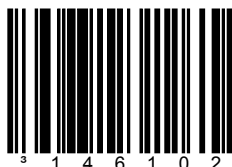
The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### EAS RS232 on Host Port



This bar code allows the EAS RS232 signal to use the Tx Out and Rx In lines of the scanner to Host RS232 In connector.

##### \*No EAS RS232 on Host Port



There is no EAS RS232 signal (Tx Out and Rx In) used on the scanner to Host RS232 In connector.

*\* Factory Default Setting*

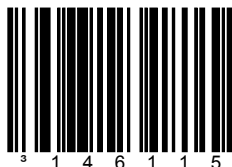
### EAS Bar Codes

#### Continuous Mode



The following codes **do not** require that the MS2xx0 to be in scale program mode.

#### EAS Continuous Mode



When in continuous mode and the scanner is enabled, the EAS will always be online to deactivate an EAS tag.

#### \*EAS Interlock Mode



This bar code establishes EAS is used in the Interlocked mode.

*\* Factory Default Setting*

### EAS Bar Codes

#### EAS Deactivation



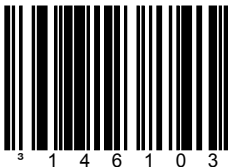
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Blink Scan LED on  
Deactivation



The scanner will blink the scan LED upon receipt of an EAS deactivate acknowledge signal.

\*No Blink LED on Deactivation



Do not blink the scan LED upon receipt of an EAS deactivate acknowledge signal.

*\* Factory Default Setting*

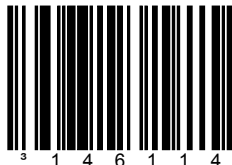
### EAS Bar Codes

#### EAS Deactivation



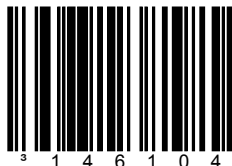
The following codes **do not** require that the MS2xx0 to be in scale program mode.

##### Fast Beep on Deactivation



Fast beep the scanner's beeper receipt of an EAS deactivate acknowledge signal.

##### \*No Beep on Deactivation



Do not fast beep the scanner's beeper receipt of an EAS deactivate acknowledge signal.

*\* Factory Default Setting*

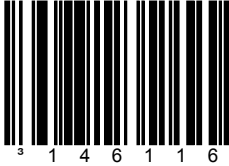
## EAS Bar Codes

### EAS Deactivation



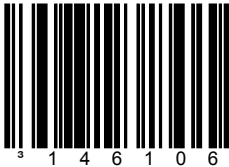
The following codes **do not** require that the MS2xx0 to be in scale program mode.

Volume Switch = Manual



The volume switch is used for manual EAS deactivation.

\*Volume Switch = Normal



Volume switch is used for normal volume function.

*\* Factory Default Setting*

### EAS Bar Codes

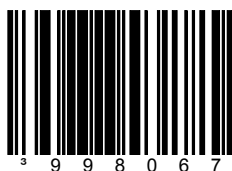
#### Sensormatic ScanMax Pro



The following codes **do not** require that the MS2xx0 to be in scale program mode.

The RS232 EAS cable **must** be connected to one of the RS232 scanner ports.

EAS Function #3



For Sensormatic ScanMax Pro, get EAS's hardware version, software version, and serial number and transmit the information over the current scanner interface.

EAS Function #2



For Sensormatic ScanMax Pro, get EAS's device type and transmits the information over the current scanner interface.



### EAS Bar Codes

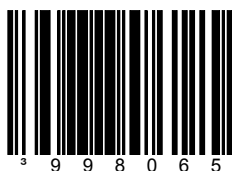
#### Sensormatic ScanMax Pro



The following codes **do not** require that the MS2xx0 to be in scale program mode.

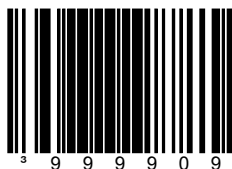
The RS232 EAS cable **must** be connected to one of the RS232 scanner ports.

##### EAS Function #1



For Sensormatic ScanMax Pro, get EAS's deactivation count and transmit the information over the current scanner interface.

##### ScanMax RS232 Defaults



For Sensormatic ScanMax Pro, RS232 default setup.

- AUX port connect
- 5 second timeout
- blink LED on deactivate

## Supplemental Tests

### Display Software Numbers



The following codes **do not** require that the MS2xx0 to be in scale program mode.

These codes are for test purposes only.

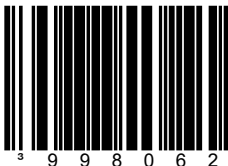
The following code will display software #'s on the 2-digit diagnostic display. The lasers will be turned off while the numbers are being displayed. The first number is the main decode processor software number. The second number is the I/O processor's software number. Since only 2 digits can be displayed at a time, the following sequence is used as an example of what may be observed:

2-Digit Display		Description of each sequentially displayed sets of digits. (Example shown will represent: ' 15269' ' 15138')
x 1	=	The first digit of the five main decode processor software number appears right justified.
5 2	=	The second and third digits.
6 9	=	The forth and fifth digits.
x x	=	Pause before next set of numbers.
x 1	=	The first digit of the five digit I/O processor software number appears right justified.
5 1	=	The second and third digits.
3 8	=	The forth and fifth digits.

*x = Blank / No Digit Displayed*

After the last sets of digits are displayed, the scanner resumes scanning operation. If the current interface does not use an I/O processor, the software number may appear ' 0 00 00'. This capability exists in software 15269 and later.

Display Software Number



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## NOTES

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