



METROLOGIC INSTRUMENTS, INC.

MS2x20 Stratos® Series
Configuration Addendum

Mettler Toledo Diva Scale

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TABLE OF CONTENTS

IMPORTANT NOTES - BEFORE YOU START	1
Important to Know Bar Codes	
Scale Save Data bar code	2
Scale Type bar code	2
SCALE/LOAD CELL CONFIGURATION BAR CODES	
Single or Dual Cable Scale Configuration Bar Codes	
Unit Configuration (Pounds)	3
Unit Configuration (Kilograms)	4
SCALE CONFIGURATION BAR CODES	
Single or Dual Cable Scale Configuration Bar Codes	
Pole Display Configuration	5
Scale Settling Filter Configuration	7
Scale Internal Beeper	9
Zero Cursor	10
Quantitative Separator	11
Dual Cable Scale Configuration Bar Codes	
Scale Protocols	12
Scale COM Port Settings (Baud Rate)	16
Scale COM Port Settings (Data Bits & Parity)	18
Single Cable Scale Configuration Bar Codes	
Set Scale for Single Cable Communication	21
SCANNER CONFIGURATION BAR CODES	
Dual Cable Scanner Configuration Bar Codes	
Dual Cable Scanner Mode	22
Dual Cable Scanner OPOS Mode	22
IBM 3 rd Generation 46xx	23
IBM OEM Full Speed USB	23

TABLE OF CONTENTS

Single Cable Scanner Protocols for P.O.S. Compatibility

MSS Global.....	24
ISS45	25
OPOS.....	26
Retailix / NCR.....	27
Retailix / OPOS.....	28
IT Retail.....	29
IBM 3 rd Generation 46xx	30
IBM OEM Full Speed USB	31

Additional POS Data Formatting

Full Speed USB Table Top/Handheld	32
Special Function ACK	34
Prefix/Suffix.....	35
3x-30 Acknowledge Responses	36
Special Function Command Responses	37
BCC in POS communications	38
3 Scale Status Bytes	39
Scale Options.....	40
Remote Display.....	41
StratosSTATS	42

Additional POS Related Functions

Scanner Beep on Weight Sent.....	43
----------------------------------	----

Auxiliary Port

Stratos SCHOOL ™	44
Quick Start for a Secondary Metrologic Scanner	45

SCANNER TEST BAR CODES

Supplemental Tests.....	47
Display Software Numbers.....	47

IMPORTANT NOTES - BEFORE YOU START

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 15367 or higher
- All configuration bar codes must be scanned with the vertical window

The Unit Configuration bar codes (located on pages 3 and 4 of this addendum guide) require the scale security seal to be broken.

If the scale security seal is broken, it **must** be sealed and certified by local Weights and Measures authorities after the scale calibration 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.

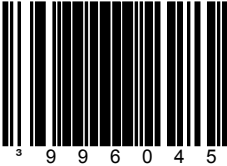
It is the responsibility of the owner of the scale to confirm compliance with the relevant Weights and Measures statutes and regulations applicable in your area by checking with the appropriate government agency before placing a newly calibrated unit into service or removing any official seals.

IMPORTANT NOTES - BEFORE YOU START

Scale Save Data bar code.

The *Scale Save Data* bar code must be scanned last to “save” the changes in the scale’s memory. The scale will then reset and begin normal operation. This is required only for scale configuration items – not for calibration.

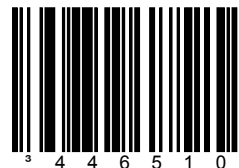
Scale Save Data



Scale Type bar code.

The Stratos scanner should have been already programmed to recognize the type K Diva scale. If, for any reason, the scanner’s non-volatile memory is lost, the following bar code must be scanned to reprogram the scanner for the type K Diva scale.

Type K Diva Scale



Single or Dual Cable Scale Configuration Bar Codes

Unit Configuration (Pounds)

For Kilogram weight units see page 4.

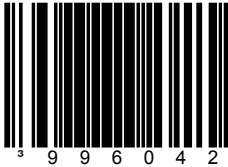


The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

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

Pounds Calibration



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

Single or Dual Cable Scale Configuration Bar Codes

Unit Configuration (Kilograms)

For Pound weight units see page 3.

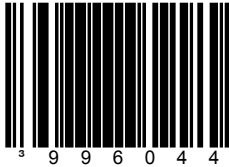


The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

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

Kilograms Calibration



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

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.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale Display
Single-Line Weight Only



Set the scale to **use** a single-line weight only display to show all scale activity.

The single-line display **must** be plugged into the *Scale to Display* connector on the MS2xx0 (see *Figure 1*).

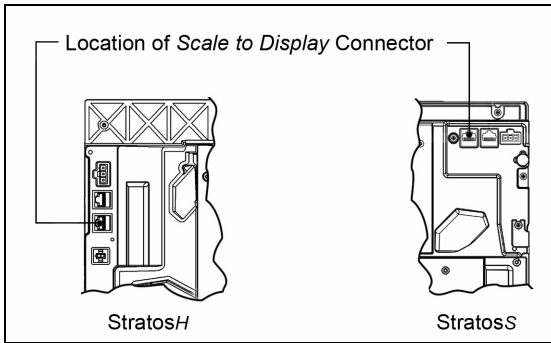
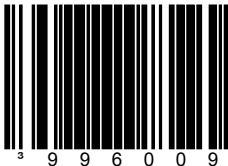


Figure 1. Location of Scale to Display Connector

Scale Display
4-line Price Computing



Set the scale to **use** a 4-line price computing display to show all scale activity.

The 4-line display **must** be plugged into the *Scale to Display* connector on the MS2xx0 (see *Figure 1*).

Single or Dual Cable Scale Configuration Bar Codes

Pole Display Configuration



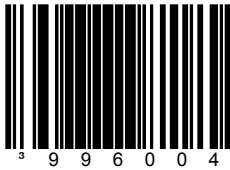
The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale Has No Display



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

A remote display **can not** be plugged into the *Scale to Display* connector on the MS2xx0 (see *Figure 1*).

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.

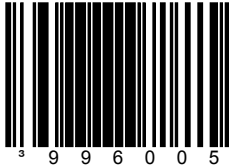
If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

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



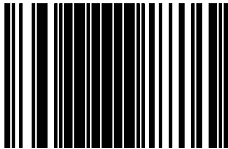
The following bar codes can be used to configure a **Single or Dual Cable** MS2xx0.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

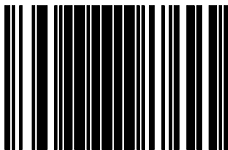
Scale = Medium Filter



³ 9 9 6 0 0 6

Medium filter setting for moderate vibration environments.

Scale = Strong Filter



³ 9 9 6 0 0 7

Strong filter setting for high vibration environments.

Single or Dual Cable Scale Configuration Bar Codes

Scale Internal Beeper



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

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

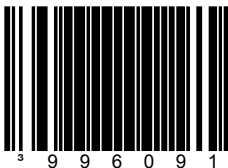
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale Beep On



Enable the internal scale beeper to beep when remote display keys are depressed.

*Scale Beep Off



Turn off the internal beeper inside the scale. This is the desired default as the scanner beeper is the main tone generator.

** Factory Default Setting*

SCALE CONFIGURATION BAR CODES

Single or Dual Cable Scale Configuration Bar Codes

Zero Cursor



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

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

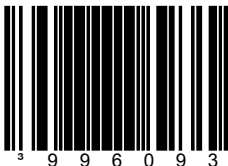
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Zero Cursor Off



Turn off the zero cursor that appears on the display when the scale is in the zero weight area.

*Zero Cursor On



Enable the zero cursor to appear on the display when the weight is within the zero weight area.

** Factory Default Setting*

Single or Dual Cable Scale Configuration Bar Codes

Quantitative Separator



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

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

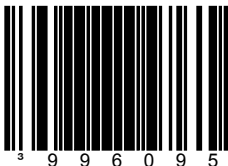
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Decimal Pt Separator



Use a decimal point to separate the units from fraction values on the remote display.

Comma Separator



Use a comma to separate the units from fraction values on the remote display.

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 22.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale = EPOS Protocol



Set the scale RS232 protocol to Serial EPOS.

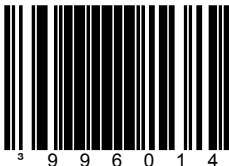
Communication Port Settings:

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

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.

Scale = EPOS2 Protocol



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 22.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale = ICL Protocol



Set the scale RS232 protocol to Serial ICL

Communication Port Settings:

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

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

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 22.

If the MS2 xx 0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2 xx 0 **does not** need to be in scale service mode.

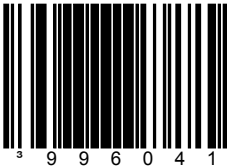
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale = NCI Protocol



Reserved for Future NCI Protocol Variation

Scale = EMEA
Special Configuration



Set the scale to 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

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 22.

If the MS2xx0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

Scale = Price
Compute Setup



Set the scale for price computing setup.

- Price computing display
- Dialog 06 Protocol
- 9600 Baud
- Odd Parity
- 7 Data Bits, 1 Stop Bit

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 12 to 15 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

If the MS2x0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2x0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

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.

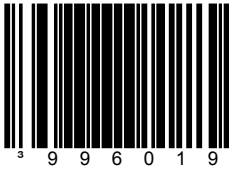
If a *Scale Protocol* bar code from page 12 to 15 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

If the MS2x0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2x0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

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 12 to 15 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

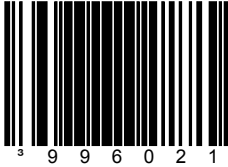
If the MS2x0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2x0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

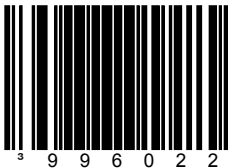
Scale = 7 Data Bits,
Odd Parity

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.

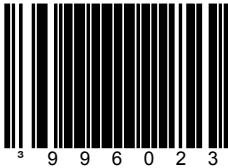
If a *Scale Protocol* bar code from page 12 to 15 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

If the MS2x0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2x0 **does not** need to be in scale service mode.

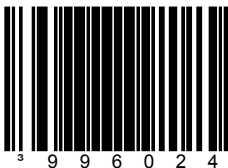
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

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.

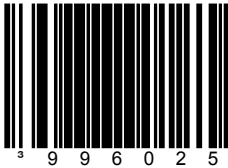
If a *Scale Protocol* bar code from page 12 to 15 is used, the bar codes below must be scanned **after** the *Scale Protocol* bar code in order to be effective.

If the MS2x0 is currently in a **Dual Cable** configuration, temporarily disconnect the **Scale to Host cable** prior to configuring the scale.

The MS2x0 **does not** need to be in scale service mode.

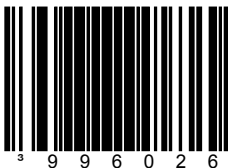
The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

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



If the MS2xx0 is currently in a **Dual Cable** configuration, disconnect and remove the **Scale to Host cable** prior to configuring the scale.

The MS2xx0 **does not** need to be in scale service mode.

The *Scale Save Data* bar code **must** be scanned last to save the changed configuration (see page 2).

If your application requires single cable communication, scan the following barcode 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 service 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 barcode 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

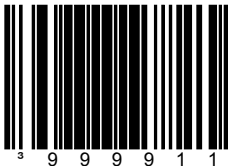
There are two methods of configuring the **scanner** to a stand-alone protocol:

- 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 24 - 31 and then scan the *No Scale* bar code on page 40.

Dual Cable Scanner OPOS Mode

Scanner Only
Dual Cable OPOS Defaults

Use this barcode 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

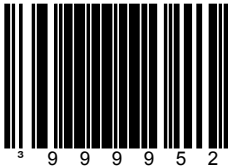
IBM 3rd Generation 46xx and IBM OEM Full Speed USB



The following bar codes can be used to configure a **Dual Cable MS2x0**.

The following codes **do not** require that the MS2x0 to be in scale service mode.

IBM 3rd Generation Communication

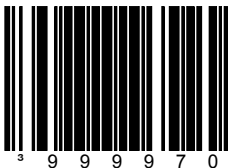


When scanned the Stratos will operate as a table top scanner only.

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 service mode.

MSS Global, English

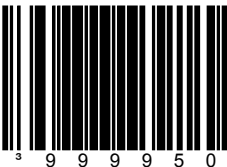


Scanner/Scale, **Single Cable** RS232
MSS Global Retail, English Units

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

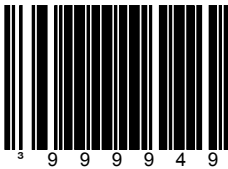
ISS45



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 service mode.

ISS45, English

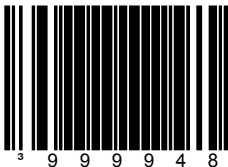


Scanner/Scale, **Single Cable RS232**
ISS45, English Units

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 service 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 service 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

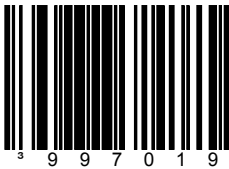
Retailix/OPOS



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 service 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 service mode.

IT Retail, English

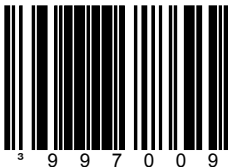


Scanner/Scale **Single Cable** RS232
IT Retail, English

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

SCANNER CONFIGURATION BAR CODES

Single Cable Protocols for POS Compatibility

IBM 3rd 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 service mode.

IBM 3rd Generation 46xx,
English[†]

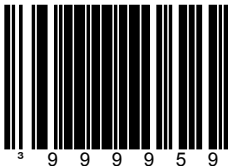


Scanner/Scale **Single Cable** IBM 46xx[†],
RS485, English (lbs.)

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

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

IBM 3rd Generation 46xx,
Metric[†]



Scanner/Scale **Single Cable** IBM 46xx[†],
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 service mode.

IBM OEM
Full Speed USB, English

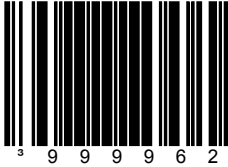


Table Top Scanner/Scale **Single Cable**,
IBM OEM Full Speed USB, 4-Digit Weight
Mode, English (lbs.)

IBM OEM
Full Speed USB, Metric

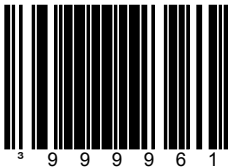


Table Top Scanner/Scale **Single Cable**,
IBM OEM Full Speed USB, 5-Digit Weight
Mode, Metric (kg)

SCANNER CONFIGURATION BAR CODES

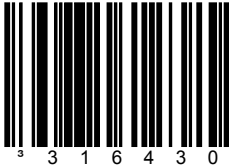
Additional POS Data Formatting

Full Speed USB Table Top/Handheld



The following codes **do not** require that the MS2.x.x0 be in scale service mode.

Scanner 4B Handheld



Full Speed USB interface to 4B00h handheld usage.

Scanner 4A Flatbed



Full Speed USB interface to 4A00h table top usage.

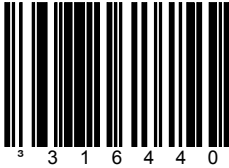
Additional POS Data Formatting

Full Speed USB Table Top/Handheld



The following codes **do not** require that the MS2x0 to be in scale service 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



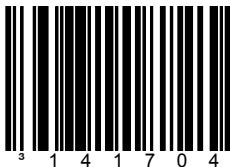
The following codes **do not** require that the MS2.x0 to be in scale service mode.

Enable Special
Function ACK Answer



Answer simple special functions with ACK.

* Disable Special
Function ACK



* *FACTORY DEFAULT SETTING*

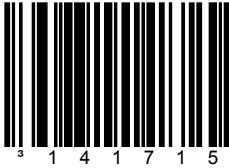
Additional POS Data Formatting

Prefix/Suffix



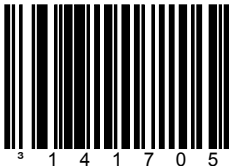
The following codes **do not** require that the MS2.x.x0 to be in scale service mode.

Use Protocol Prefix/Suffix



Add protocol prefixes and suffixes to the bar code.

* Program the
Prefix/Suffix Separate



* *Factory Default Setting*

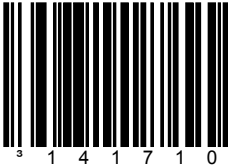
Additional POS Data Formatting

3x-30 Acknowledge Responses



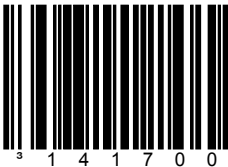
The following codes **do not** require that the MS2.x.x0 to be in scale service mode.

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*

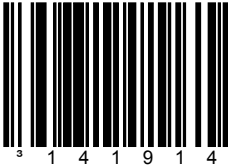
Additional POS Data Formatting

Special Function Command Responses



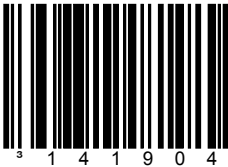
The following codes **do not** require that the MS2.x0 to be in scale service mode.

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*

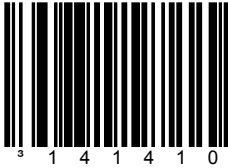
Additional POS Data Formatting

BCC in POS communications



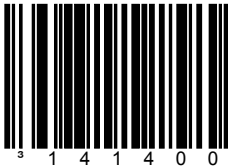
The following codes **do not** require that the MS2xx0 to be in scale service mode.

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*

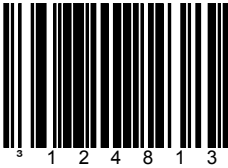
Additional POS Data Formatting

3 Scale Status Bytes



The following codes **do not** require that the MS2.x0 to be in scale service 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 MS2x0 to be in scale service mode.

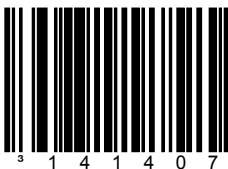
5-Digit Weight



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 24 - 31.

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 24 - 31 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 24 - 31 has already been scanned.

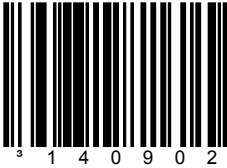
Additional POS Data Formatting

Remote Display



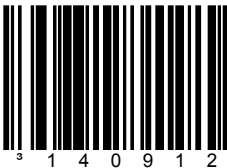
The following codes **do not** require that the MS2x0 to be in scale service mode.

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 24 - 31 to remove the scale's display from the scanner memory.

Remote Display



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

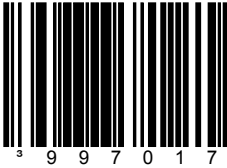
Additional POS Data Formatting

StratosSTATS



The following codes **do not** require that the MS2.x.x0 to be in scale service mode.

Activate StratosSTATS

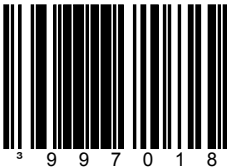


This bar code sets:

- a. StratosSTATS bar code data formatting active.
- b. Bar code Attempt Interval to 0.5 seconds.
- c. 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 barcode output transmission.

** Factory Default Setting*

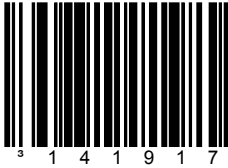
Additional POS Related Functions

Scanner Beep on Weight Sent



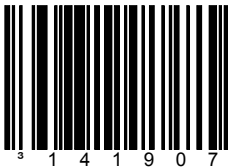
The following codes **do not** require that the MS2.x0 to be in scale service mode.

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*

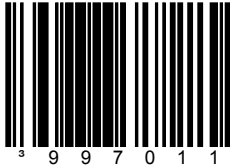
Auxiliary Port

Stratos*SCHOOL*™



The following codes **do not** require that the MS2x0 to be in scale service 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 MS2.x0 to be in scale service 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



Exit Configuration Mode



Supplemental Tests

Display Software Numbers



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

These codes are for test purposes only.

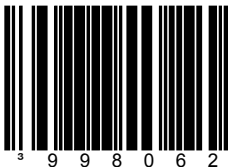
The following code will display software #'s on the 2-digit diagnostic display. The lasers will be turned off while the numbers are being displayed. The first number is the main decode processor software number. The second number is the I/O processor's software number. Since only 2 digits can be displayed 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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ISO 9001:2000

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November 2006

Printed in the USA



0 0 - 0 2 2 7 2 B