

MS2xxx

Stratos[®] Series

Configuration Addendum

Disclaimer

Honeywell International Inc. ("HII") reserves the right to make changes in specifications and other information contained in this document without prior notice, and the reader should in all cases consult HII to determine whether any such changes have been made. The information in this publication does not represent a commitment on the part of HII.

HII shall not be liable for technical or editorial errors or omissions contained herein: nor for incidental or consequential damages resulting from the furnishing, performance, or use of this manual.

This document contains propriety information that is protected by copyright. All rights reserved. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of HII.

© 2004 - 2011 Honeywell International Inc. All rights reserved.

Web Address: www.honeywellaidc.com

Trademarks

Metrologic, StratosSTATS and StratosSCHOOL are trademarks or registered trademarks of Metrologic Instruments, Inc. or Honeywell International Inc.

IBM is a trademark of International Business Machines Corporation.

Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are the property of their respective owners.

Table of Contents

important Notes	
Before You Start	1
Scale Program Mode	3
Scale/Load Cell Configuration Bar Codes	
Single or Dual Cable Scale Configuration Bar Codes	
Unit Configuration (Pounds or Kilograms)	7
Pole Display Configuration	8
Scale Settling Filter Configuration	g
Scroll Weight Configuration	11
Dual Cable Scale Configuration Bar Codes	
Price Computing Configuration	12
Scale Protocols	13
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	23
Dual Cable Scanner OPOS Mode	23
Various Dual Cable Scanner Mode	24
IBM 3 rd Generation 46xx	25
IBM OEM Full Speed USB	25
Single Cable Scanner Protocols for P.O.S. Compatib	ility
MSS Global	26
ISS45	27
OPOS	28

	Retalix / NCR	29
	IT Retail	30
	IBM Self Checkout System	31
	Various RS232 Single Cable Codes	32
	IBM 3 rd Generation 46xx	33
	IBM OEM Full Speed USB	34
Add	ditional POS Data Formatting	
	Full Speed USB Table Top/Handheld	35
	Special Function ACK	37
	Prefix/Suffix	38
	3x-30 Acknowledge Responses	39
	Special Function Command Responses	40
	BCC in POS communications	44
	3 Scale Status Bytes	45
	Scale Options	46
	Remote Display	47
	StratosSTATS	48
Add	ditional POS Related Functions	
	Scanner Beep on Weight Sent	51
	Restrict In-Store Codes	52
	Scale Shadow Mode	53
	Scanner Razz on Not-On-File	54
Add	ditional Scanner Configuration Bar Codes	
	Horizontal Depth of Field	55
	Vertical Depth of Field	57
Aux	kiliary Port	
	StratosSCHOOL	59
	Quick Start for a Secondary Honeywell Scanner	60

EAS Bar Codes 63 EAS Timeout 66 EAS Connection 71 Continuous Mode 74 EAS Deactivation 75 Sensormatic ScanMax Pro 78 Scanner Test Bar Codes Supplemental Tests 81 Display Software Numbers 81 Customer Support 81 Technical Assistance 83 Product Service and Repair 84

Important Notes

Before You Start

It is important to read the text at the top of each page of bar codes. The text will provide important additional information about the restrictions and uses of the bar codes shown. 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.

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 7 - 21 also require the scanner/scale to:

- Be in scale program mode (see page 3)
- Be calibrated, sealed and certified by local Weights and Measures authorities after the scale configuration process has been completed. The scanner/scale cannot be placed in service until it is sealed and certified by the proper authorities.

Important Notes

- 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 7 - 21 (bar codes beginning with 996.)

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



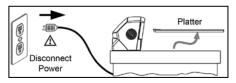


Figure 1.

 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 4 for the seal location on the StratosS.

Note: 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.

- 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.
- 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 4 for the switch location on the StratosS.

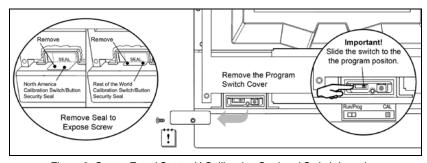


Figure 2. StratosE and StratosH Calibration Seal and Switch Location

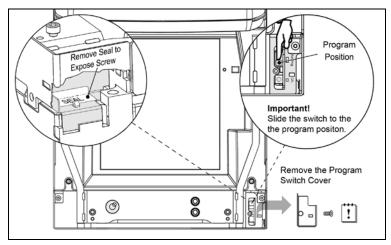


Figure 3. StratosS Calibration Seal and Switch Location

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

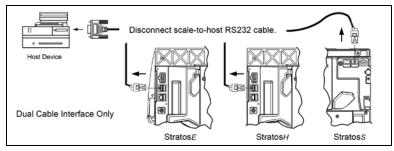


Figure 4. Disconnect scale-to-host RS232 Cable

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

Note: 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.

Honeywell 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.

Caution: To maintain compliance with applicable standards, all circuits connected to the imager 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.

- 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 7 21.

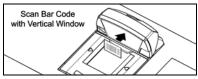


Figure 5.

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

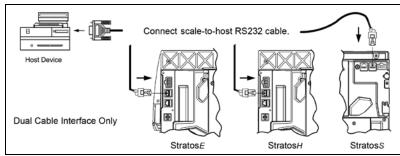


Figure 6.

 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.

Important Notes

- 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.



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

Scale = Kilograms

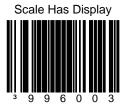


Set the scale measuring range from 0.000 to 15.000 **kilograms**.

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.



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

A remote display **must** be plugged into the *Scale 46xx to Display* connector on the MS2xx0 (*see Figure 7*) for this feature to function properly.

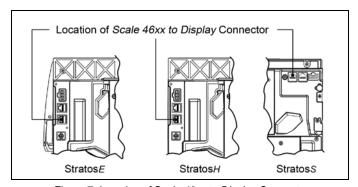


Figure 7. Location of Scale 46xx to Display Connector



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

A remote display **cannot** be plugged into the *Scale 46xx to Display* connector on the scanner/scale (*see Figure 7*) or this feature will not function properly.

Scale Settling Filter Configuration

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

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

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

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.

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.

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.

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 23.

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.

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

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 23.

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

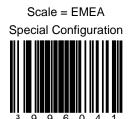


Reserved for Future NCI Protocol Variation

Scale Protocols

The following bar code will change *scale* parameters intended for a **Dual Cable** environment. To place the *scanner* in **Dual Cable** mode, please refer to page 23.

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



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

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

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 13 or 15 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**.

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 13 or 15 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**.

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 13 or 15 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.

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 13 or 15 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.

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 13 or 15 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.

Scanner Configuration Bar Codes

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 26 - 34 and then scan the No Scale bar code on page 46.

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.

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

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.



Dual Cable RS232 - REWE

Communication Port Settings:

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

TESCO UK

Dual Cable RS232 - TESCO UK

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

IBM 3rd 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 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 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

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

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.



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

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

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.



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

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

Retalix/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.

Retalix/NCR English



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

Communication Port Settings:

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

Retalix/NCR Metric



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

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

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.



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

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

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

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

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 program 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)

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.

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.

Special Function ACK

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

Enable Special Function ACK Answel

Answer simple special functions with ACK.



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



3x-30 Acknowledge Responses

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



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



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

^{*} Factory Default Setting

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

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 40 to be set.

*No Spec Func 30-30 Status



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

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.

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.

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.

3 Scale Status Bytes

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



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.



Scale Options

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



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 26 - 34.



Scan the No Scale bar code:

- If no scale is installed and one of the single cable protocol bar codes found on pages 26 - 34 has already been scanned.
- If the scale is in a dual cable environment and one of the single cable protocol bar codes found on pages 26 - 34 has already been scanned.

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 26 - 34 to remove the scale's display from the scanner memory.

Remote Display

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

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.

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 customer service representative.



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



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 customer service 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.

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

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.

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.

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 customer service 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.

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 customer service 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.

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 customer service 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.

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 customer service 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

StratosSCHOOL™

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**TM screen.

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

Quick Start for a Secondary Honeywell 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 codes. These bar codes will configure the Stratos' auxiliary port to accept a Honeywell scanner as the secondary scanner.

Enable Stratos Auxiliary Port



Aux 8 Data Bits



Note: 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



Set Stratos Format



Disable Secondary Scanner Beeper



Enable Communication Time Out



Disable CR Suffix



Quick Start for a Secondary Honeywell Scanner Configuration sequence continued from previous page.

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 is connected.

* Factory Default Setting

EAS Device Type 1



Sensormatic ScanMax Pro

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 Device Types

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



EAS Timeout

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





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



EAS = 3 seconds

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





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



EAS = 10 seconds

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





EAS Connection

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



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 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.

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

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 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.

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.

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.

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.



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



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

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.



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

Scanner Test Bar Codes

Supplemental Tests

Display Software Numbers

The following code **does not** require that the MS2xx0 to be in scale program mode. This code is for test purposes only.

The following code will display software numbers 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



Customer Support

Technical Assistance

If you need assistance installing or troubleshooting your device, please call your distributor or the nearest technical support office:

North America/Canada

Telephone: (800) 782-4263

E-mail: hsmnasupport@honeywell.com

Latin America

Telephone: (803) 835-8000 Telephone: (800) 782-4263

E-mail: hsmlasupport@honeywell.com

Brazil

Telephone: +55 (11) 5185-8222 Fax: +55 (11) 5185-8225

E-mail: brsuporte@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

E-mail: soporte.hsm@honeywell.com

Europe, Middle East, and Africa Telephone: +31 (0) 40 7999 393

Fax: +31 (0) 40 2425 672

E-mail: hsmeurosupport@honeywell.com

Hong Kong

Telephone: +852-29536436

Fax: +851-2511-3557

E-mail: aptechsupport@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: aptechsupport@honeywell.com

China

Telephone: +86 800 828 2803 Fax: +86-512-6762-2560

E-mail: aptechsupport@honeywell.com

Japan

Telephone: +81-3-6730-7344

Fax: +81-3-6730-7222

E-mail: aptechsupport@honeywell.com

Online Technical Assistance

You can also access technical assistance online at www.honeywellaidc.com.

Product Service and Repair

Honeywell International Inc. provides service for all its products through service centers throughout the world. To obtain warranty or non-warranty service, contact the appropriate location below to obtain a Return Material Authorization number (RMA #) before returning the product.

North America

Telephone: (800) 782-4263

E-mail: hsmnaservice@honeywell.com

Latin America

Telephone: (803) 835-8000 Telephone: (800) 782-4263

Fax: (239) 263-9689

E-mail: laservice @honeywell.com

Brazil

Telephone: +55 (11) 5185-822 Fax: +55 (11) 5185-8225

E-mail: brservice@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

Fax: +52 (55) 5531-3672

Europe, Middle East, and Africa Telephone: +31 (0) 40 2901 633

E-mail: mxservice@honeywell.com

Fax: +31 (0) 40 2901 631

E-mail: euroservice@honeywell.com

Hong Kong

Telephone: +852-29536436

Fax: +851-2511-3557

E-mail: apservice@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: apservice@honeywell.com

China

Telephone: +86 800 828 2803 Fax: +86-512-6762-2560

E-mail: apservice@honeywell.com

Japan

Telephone: +81-3-6730-7344 Fax: +81-3-6730-7222

E-mail: apservice@honeywell.com

Online Product Service and Repair Assistance

You can also access product service and repair assistance online at www.honeywellaidc.com.

Honeywell Scanning & Mobility

9680 Old Bailes Road For Mill, SC 29707 www.honeywellaidc.com

