

B0760x MAIN FIRMWARE RELEASE NOTES

WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board

Procedure to install new WM-Nano firmware.

Refer to the *WM-Nano Setup Manual* for complete information.

1. Copy the WM-Nano wrapper firmware folder "Soft" onto an empty USB memory stick.
 - The folder and files must not be zipped.
 - The "Soft" folder must be the only data on the USB memory stick.
2. With the WM-Nano powered OFF raise the left side access panel.
3. Insert the Memory Stick in to the USB port.
DO NOT REMOVE the USB Memory Stick during the firmware update procedure.
4. Power up the WM-Nano, press **ENTER** at the Date/Time confirm screen.
Note: Power up may take several minutes depending on the firmware version.
5. The upper display bar will be red indicating boot up from a USB Memory Stick.
Note: The wrapper will also be in "European" mode.
6. A memory clear will be required after installing the new firmware if the warning message "Data Composition Is Different. Please Initialize the Memory" (0114-0000) is displayed. This is due to significant differences between the current and new firmware versions. Press **OK** and skip to step 8.
7. Press the **MODE** key to enter the Main menu.
8. Enter **495344** and press the **PLU** key to access hidden menu steps.
9. Press the **ADJUST** menu button.
10. Scroll down and select **DOWNLOAD** (page 2/3).
11. Press the **USB>MAIN (PRG+IMG)** button.
12. Press the firmware version to be installed. It will be highlighted.
13. Press **EXECUTE**.
14. Screen 15034-0000 "DATABASE VERSION IS DIFFERENT" may be displayed. Press **EXEC** to continue.
15. Press **EXEC** to begin the firmware download.
16. The screen will show the firmware download progress.
Note: The download may take a few minutes to begin and up to 15 minutes to complete.
Data transfer may be confirmed by the flashing light on the USB memory stick.
17. When message 15029-0000 is displayed, the firmware download is complete -- power the wrapper off.
18. Remove the USB Memory Stick.
19. Power up the WM-Nano, press **ENTER** at the Date/Time confirm screen.
20. Press the **MODE** key to enter the Main menu.
21. Enter **495344** and press the **PLU** key to access hidden menu steps.
22. Press the **ADJUST** menu button.
23. Scroll down and select **MODEL** (page 3/3).
24. Set the Model configuration as follows:
 - **Model Select** = UNI-7 RP
 - **WM-Nano** = CONNECT
 - **WM-Nano Type** = L-TYPE
25. Press the **RETURN ARROW** (top right).
26. Power the wrapper off at the prompt to reboot the machine.
27. Power up the WM-Nano, press **ENTER** at the Date/Time confirm screen.
28. Press the **MODE** key to enter the Main menu.
29. Enter **495344** and press the **PLU** key to access hidden menu steps.
30. Press the **ADJUST** menu button.
31. Scroll down and select **DOWNLOAD** (page 2/3).
32. Press **OK** at the warning message "No USB Memory" (0396-0000).
33. Press the **SUB** tab.
34. Press the firmware version to be installed. It will be highlighted.
35. Press **EXECUTE**.
36. Press **EXEC** to begin the firmware download.
37. The screen will show the firmware download progress.
Note: The download takes a few minutes to complete.
38. When the download is complete press the **RETURN ARROW** (top right).
39. Press the **OPERATION** button (lower right) to return to Normal Operation mode

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WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board

PK-260B CPU Board

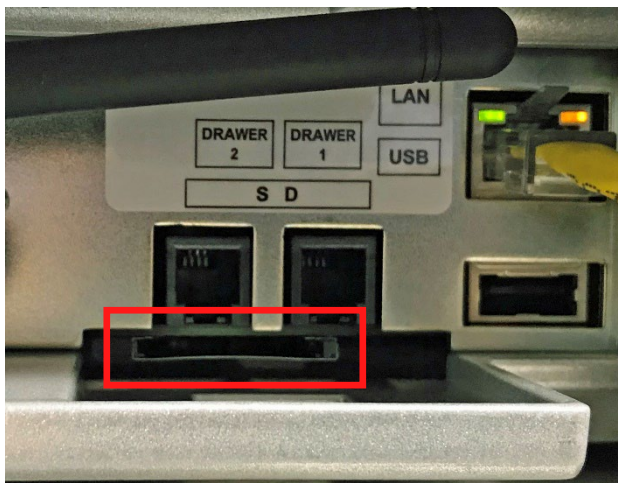
Firmware B0760x is designed for the revised CPU board PK-260B. **This firmware is not compatible with the previous CPU board PK-260A.** And previous firmware (B0684x, etc.) is not compatible with the new PK-260B CPU board.

The two CPU board versions can be easily identified by the expansion memory card slot located on the left side of the Uni-7 controller. See the images below.

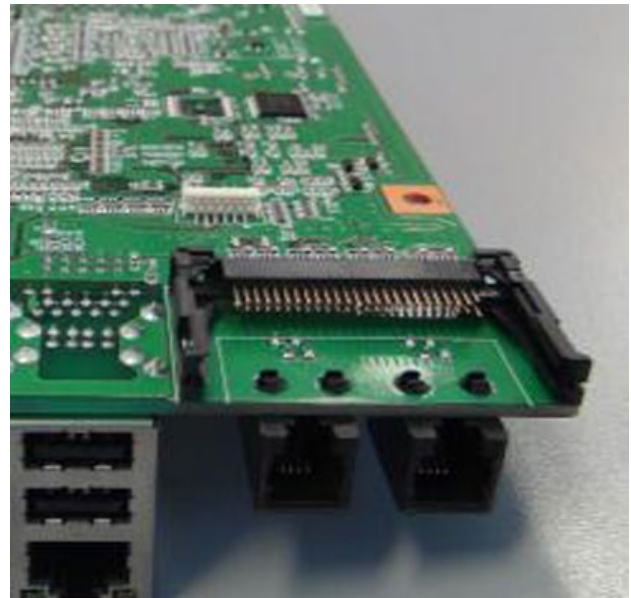
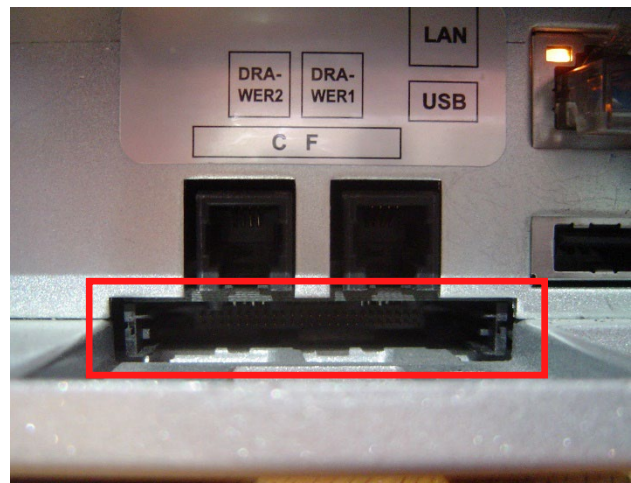
SD Memory Cards

The new PK-260B CPU board supports SD memory card sizes 512M, 1G, and 2G (p/n 174110). The maximum SD card memory that can be recognized is 2GB. A larger capacity SD card may be used but only 2GB will be available.

B0760x PK-260B with SD Memory Card Slot



B0684x PK-260A with CF Memory Card Slot



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Procedure to convert to 2020 Nutrition data format.

See [B0760E item 1h](#) for detailed step by step instructions.

Version B0760M

Release Date: December 14, 2023

Use with SLP-5 **2.50a** or later ([strongly recommended](#) for compatibility)
Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

MAIN: B0761K
OS: **C2573**
BOOT ROM: B0763C
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

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WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board



Caution

Memory initialization **is required** when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760L** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [2.17.0760.1]

IMPORTANT:

This firmware loads an updated OS C2573 that disables Telnet replies for security purposes and fixes an issue with VxWorks Debug mode. The following procedure is required.

1. Load the B0760M "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the WM-Nano wrapper.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install B0760M: select USB>MAIN (PRG+IMG) > select B0760M > EXECUTE.
5. After reboot confirm the OS version has been updated to C2573 (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (B0760J)

1. Updated the OS to version C2573 to disable WDB target agent of debug service of OS (VxWorks) that caused the Uni-3 to fail a PCI compliance scan.

This firmware must be loaded by booting off a USB in order to correctly load the updated OS. See the **IMPORTANT** note above regarding loading this firmware.

A bootable USB is available from Rice Lake (p/n 160906) if the Uni-5 does not recognize standard USB drives.

Version B0760L

Release Date: November 24, 2023

B0760L does not include changes that affect the USA.

Version B0760K

Release Date: August 11, 2023

B0760K does not include changes that affect the USA.

Version B0760J

Release Date: June 9, 2022

Use with SLP-5 **2.50a** or later (**strongly recommended** for compatibility)
Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

MAIN:	B0761H
OS:	C2373
BOOT ROM:	B0763C
PRINTER1 FPGA:	B0778A
WRAPPER APLY:	C1892 (angled side folders)
	J0796N (straight side folders)

B0760x MAIN FIRMWARE RELEASE NOTES

WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board

WRAPPER BOOT: J0671C



Caution

Memory initialization may be required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [2.17.0760.1]

IMPORTANT:

This firmware loads an updated OS C2373 that disables Telnet replies for security purposes. The update to C2373 was first introduced in B0760D. The following procedure is required.

1. Load the B0760J "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the WM-Nano wrapper.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install B0760J: select USB>MAIN (PRG+IMG) > select B0760J > EXECUTE.
5. After reboot confirm the OS version has been updated to C2373 (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (B0760H)

1. Added support for the Silex SX-590 wireless card in addition to the Lantronix WiPort.
 - a. A setting was added to the WiFi setting screen (Setup menu > Machine No.) to select between "WiPort" (default) and "SX".
 - b. The SX-590 card supports the following encryption. Unsupported encryption types are shaded out on the WiFi screen.
 - WEP128
 - WPA PSK (personal) TKIP
 - WPA2 PSK (personal) CCMP
 - c. The SX-590 supports both the 2.4 GHZ and 5 GHZ frequency band, unlike the WiPort that supports only 2.4 GHZ.
 - d. The SX-590 supports 802.11a/b/g/n/ac (1x1) compared to the WiPort that only works with 802.11 b/g.
 - e. For identification purposes, scales with the Silex SX-590 installed from the factory use a white antenna.

Version B0760H

Release Date: November 2, 2021

Use with SLP-5 **2.40t** or later.

Use SLP-5 **2.50a** or later to support 2020 Nutrition if Scale Type is set as "WM-Nano" in SLP-5.

Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

MAIN: B0761G
OS: C2373
BOOT ROM: B0763C
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

B0760x MAIN FIRMWARE RELEASE NOTES

WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board



Caution

Memory initialization may be required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [2.17.0760.1]

IMPORTANT:

This firmware loads an updated OS C2373 that disables Telnet replies for security purposes. The update to C2373 was first introduced in B0760D. The following procedure is required.

1. Load the B0760H "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the WM-Nano wrapper.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install B0760H: select USB>MAIN (PRG+IMG) > select B0760H > EXECUTE.
5. After reboot confirm the OS version has been updated to C2373 (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (B0760G)

1. Modified to change the fixed bakery weight (ounces and grams) when the number of pieces is changed by the operator. The original bakery weight is multiplied or divided based on the entry of more or fewer pieces than the original programmed quantity.
2. Added three function keys: *Extra1 Edit* (#145), *Extra2 Edit* (#146), and *Extra3 Edit* (#147) to allow these Extra Messages to be edited from the operation mode. When the key is pressed, the same message list is displayed as in Program menu. Select a message and press DETAIL or enter the message number and press PLU to edit the message. The message editing keys can be used before or after a PLU is called.

Note: These function keys are for editing only. The edited message is not selected to print with the PLU. Use the standard *Extra1* (#16), *Extra2* (#17), and *Extra3* (#18) function keys to select the message.

Version B0760G

Release Date: March 23, 2021

Use with SLP-5 **2.40t** or later.

Use SLP-5 **2.50a** or later to support 2020 Nutrition if Scale Type is set as "WM-Nano" in SLP-5.

Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

MAIN:	B0761F
OS:	C2373
BOOT ROM:	B0763C
PRINTER1 FPGA:	B0778A
WRAPPER APLY:	C1892 (angled side folders)
	J0796N (straight side folders)
WRAPPER BOOT:	J0671C

B0760x MAIN FIRMWARE RELEASE NOTES

WM-Nano Table Top Automatic Wrapper with PK-260B CPU Board



Caution

Memory initialization may be required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [2.17.0760.1]

IMPORTANT:

This firmware loads an updated OS C2373 that disables Telnet replies for security purposes. The update to C2373 was first introduced in B0760D. The following procedure is required.

1. Load the B0760G "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the WM-Nano wrapper.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install B0760G: select USB>MAIN (PRG+IMG) > select B0760G > EXECUTE.
5. After reboot confirm the OS version has been updated to C2373 (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (B0760E)

1. Eliminated case sensitive searches. This is only available for PLUs when the configuration is set to search "ALL" text. [Setup menu > Operation Settings > Call1 tab > Find PLU = ALL]

Version B0760E

Release Date: January 24, 2020

Use with SLP-5 **2.40t** or later.

Use SLP-5 **2.50a** or later to support 2020 Nutrition if Scale Type is set as "WM-Nano" in SLP-5.

Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

MAIN: B0761D
OS: C2373
BOOT ROM: B0763C
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.0760.1]



Caution

Memory initialization is required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760D** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab).

IMPORTANT:

This firmware loads an updated OS C2373 that disables Telnet replies for security purposes. The update to C2373 was first introduced in B0760D. The following procedure is required.

1. Load the B0760E "Soft" firmware folder on to a compatible USB.

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2. Install the USB and power on the WM-Nano wrapper.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install B0760E: select USB>MAIN (PRG+IMG) > select B0760E > EXECUTE.
5. After reboot confirm the OS version has been updated to C2373 (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (B0760D)

1. Added support to print the new 2020 Nutrition data.
 - a. Nutrition editing screens (Program menu > Nutrition) are changed to two parts listing the new standard nutrition data fields plus a "free" table that can be used for miscellaneous additional values.
 - Form tab – for standard data fields
 - Free tab – for miscellaneous fields
 - b. All values are converted to text to support decimals, percent symbols, etc.
 - c. When nutrition data is sent from SLP-5 in the old numeric format, it is converted and stored in the new 2020 text format. The appropriate unit is automatically added: g, mg, %, etc.
 - d. The following nutrition data from the old format that are no longer required in the new 2020 Nutrition format are saved as follows.
 - Calories From Fat → Nutr.Free1
 - Protein (%) → Nutr.Free2 (%)
 - Sugars (%) → Nutr.Free3 (%)
 - Vitamin A (%) → Nutr.Free4 (%)
 - Vitamin C (%) → Nutr.Free5 (%)
 - Sugar Alcohol → Nutr.Free1 (%)
 - e. After installing B0760E or later, it is not possible to receive nutrition data in the old numeric format in to SLP-5.
 - f. If SLP-5 is configured for the old nutrition format and nutrition data are requested from a scale with B0760E or later installed, no data will be received in to SLP-5. There is no error.
 - g. SLP-5 can be changed between the old and new 2020 Nutrition format as follows: Open SLP-5 Setup Utility > General > General #2 tab > Enable "Nutrition: USA format (2020)"?
 - h. It is not possible to transfer old nutrition data by USB backup to the scale after a firmware update to B0760E. SLP-5 must be used to receive the old nutrition data **before** the update. And then send the nutrition data from SLP-5 after the update. Refer to the following steps.
 - i. Create a full USB backup.
 - ii. Configure SLP-5 for the original nutrition format. See step g. above.
 - iii. Receive all data into SLP-5.
 - iv. Install B0760E or later firmware.
 - v. Clear the scale's memory: Adjust menu > Memory Clear.
 - vi. Reconfigure the scale for USA, etc. as needed.
 - vii. Load the full USB backup. The old-style nutrition data will fail to load.
 - viii. Send nutrition data from SLP-5 to the scale.
 - ix. Reconfigure SLP-5 for the 2020 Nutrition format
 - x. Receive the converted nutrition data from the scale. See step g. above.
 - xi. Download updated label formats as needed to print the 2020 Nutrition format.
2. Added 2020 Nutrition Print IDs 2C1 to 2C8 and 2E4 to 2ED (705 to 712 and 740 to 749 in SLP-5).
3. Converted all original nutrition fields (Print IDs) to text format. This allows the option to print both the original and 2020 Nutrition data and formats during a transition period.

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Version B0760D

Release Date: July 24, 2018

Use with SLP-5 **2.10n** or later

Use with SLP-V **3.05g** or later

Related programs

MAIN: B0761C
OS: **C2373**
BOOT ROM: B0763C
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C



Caution

Memory initialization is required when upgrading to this firmware version.

Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading from firmware **B0760C** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). [2.17.0760.0]

The following lists the main changes from the previous version (B0760C)

1. Updated the operating system (OS) to prevent Telnet communication. Response to a Telnet inquiry was removed for network security reasons.
 - a. The updated C2373 OS must be loaded by USB REBOOT MODE (rebooting the machine with a USB memory stick inserted containing the B0760D firmware "Soft" folder). This is necessary to update the OS along with the main firmware.
 - b. Confirm the OS has been updated to version C2373 after the firmware download procedure is completed: Adjust menu > Firmware Detail.
 - c. A Memory Clear must be performed after installing the firmware to activate the Telnet block.

Version B0760C

Release Date: June 18, 2018

Use with SLP-5 **2.10n** or later

Use with SLP-V **3.05g** or later

Related programs

MAIN: B0761B
OS: B0762D
BOOT ROM: B0763C
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.0760.0]

Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0760B)

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1. Modified to display the Firmware Details in Adjust menu without entering the service password. Memory initialization is required to update the list of menu steps displayed without the service password.
2. Fixed a potential problem where the Flash ROM could be corrupted if the scale was powered off while the Sales Mode was being changed.

Version B0760B

Release Date: June 2, 2016

Use with SLP-5 **2.10n** or later

Use with SLP-V **3.05g** or later

Related programs

OS: B0762C
BOOT ROM: B0763B
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.0760.0]

Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0760A)

1. Changed the maximum brightness value of the LCD display from 50 to 25 (Adjust menu > Display Check).
CAUTION: Do Not enter a value of "0" (zero) for the Operator Side display. This will blank the display. The only recovery is to reference another Uni-5/7 scale and press the blank touchscreen accordingly to set the display brightness between 1 and 63.

Version B0760A

Release Date: April 8, 2016

Use with SLP-5 **2.10n** or later

Use with SLP-V **3.05g** or later

Related programs

OS: B0762B
BOOT ROM: B0763A
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.0760.0]

Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0760)

1. Changed default brightness of the LCD display from 50 to 25 (Adjust menu > Display Check). The maximum value is 63 but the display brightness will not exceed the 50.

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CAUTION: Do Not enter a value of "0" (zero) for the Operator Side display. This will blank the display. The only recovery is to reference another Uni-5/7 scale and press the blank touchscreen accordingly to set the display brightness between 1 and 63.

2. Added a new Time Unit to correctly print the "12" hour that was printed as "00" when the Pack Time and Sell By Time were set as 12-hour format with AM/PM.

If necessary, add the new Time Unit to SLP-V and SLP-5 as follows.

- a. Open the SLP Setup Utility.
- b. Select Label Format.
- c. Select WM-NANO.
- d. Select Unit Properties Setup.
- e. Select Time Symbol.
- f. Select New.
- g. Enter:
Name: AM/PM (12)
Value: 130
- h. Click OK, OK, Exit, Save and Exit.
- i. Close the Setup Utility.

Version B0760

Release Date: January 6, 2016

Use with SLP-5 **2.10n** or later

Use with SLP-V **3.05g** or later

Related programs

OS: B0762B
BOOT ROM: B0763A
PRINTER1 FPGA: B0778A
WRAPPER APLY: C1892 (angled side folders)
J0796N (straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.0760.0]

The following lists the main changes from the previous version (B0684V)

1. This is the initial release of B0760 for the updated PK-260B CPU board.
2. New firmware B0760 is based on previous firmware B0684V. Refer to the Release Notes for details (WM-Nano_B0684x_Release_Notes-V.pdf).
3. Previous firmware for the original PK-260A CPU board will not be recognized or listed in the Firmware Download menu (Adjust menu > Download).
4. Data may be transferred from WM-Nano wrappers with previous firmware and CPU boards by USB backup.
5. Added support for SD memory card available on new CPU board PK-260B.