

## Perten AM5200-A calibration update instructions

### 1) Introduction

This instruction provides step by step direction for updating the AM5200-A moisture meter to calibration version 130415 (April 15, 2013). This update uses a data file contained on a USB memory device (“USB drive”) that has been prepared by one of two methods:

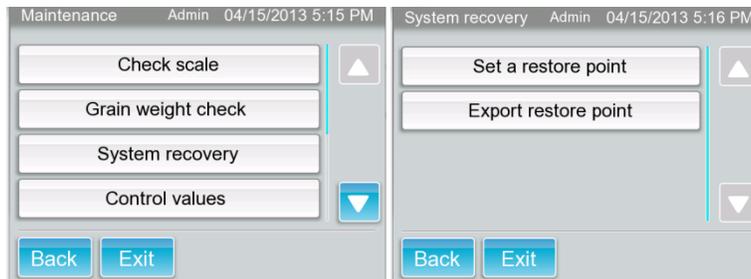
- a) It may have been received with the data file installed ready to use. In this case, the USB drive will be labeled “UGMA Calibration Updates: May 1, 2013”
- b) Otherwise the user will need to prepare the USB drive:
  - a. Obtain a USB drive with at least 1 MB space unused
  - b. Attach the USB drive to a PC that is connected to the Internet
  - c. Download the data file from the GIPSA Equipment webpage:  
**<http://www.gipsa.usda.gov/fgis/equipment.html>**  
Scroll down to the “Official Moisture Calibrations” section of the page and click on “Download all official moisture calibration files for Perten AM 5200-A”
  - d. Save the file onto the USB drive in the top folder (e.g. {drive name}:\) )
  - e. In Windows Explorer, **double-click** on the Perten.zip file and extract all (File\Extract All). Follow the Extraction Wizard steps. Save to the default drive (e.g. {drive name}:\) ) You may need to remove the word Perten from the default destination. This will place the file onto the USB drive as **:\perten\import\trans.zip**

### 2) Before installing new calibrations, a “restore point” should be set, which provides a backup in case the update process is interrupted. (Go to instrument.)

- a) Set access right to “administrator” on the AM5200-A (Menu / General settings / Change access right). Touch the word “default” to get an on-screen keyboard. Your administrator password is 142857. Screen will show “Successfully logged in as Admin user”. Press “close” button.



- b) Select (Menu / General settings / Maintenance / System recovery / Set a restore point). The screen will show a list of system files being archived. When this is complete, the unit will restart.

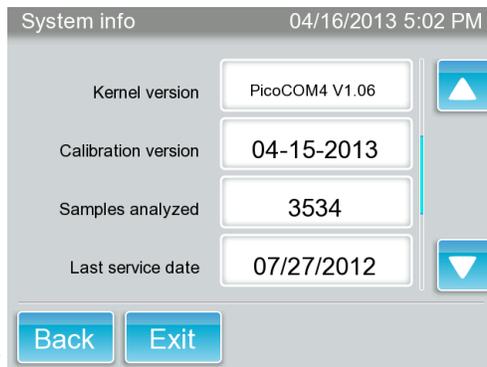




- 3) Turn on the power switch of the AM5200-A if it is not already operating. Connect the USB drive to either of the two ports on the back of the AM5200-A
- 4) Reset access right to “administrator” on the AM5200-A (Menu / General settings / Change access right / Default). Enter the administrator password 142857 (unless you have changed it); then press the “enter” key. Screen will show “Successfully logged in as Admin user”. Press “close” button
- 5) Import the new settings (Menu / down-arrow / Import-export / Import). It will take some time to process the update file (about 2 minutes). When the process is done, the message “Imported successfully. Please reboot the system” will appear. (If this message does not appear, remove the USB drive and start the process over from step 2)

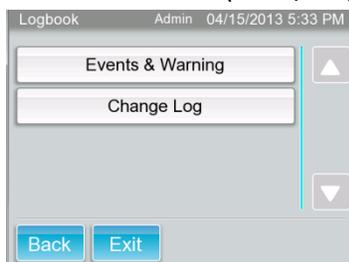


- 6) Remove the USB drive, turn off the power switch for a few seconds, then turn power on again.
- 7) Confirm update: ( Menu / down arrow / System info / down arrow



Calibration version should show “04-15-2013”

- 8) Confirm audit trail (Back / Logbook / Change log).



Change record shown at top of page should be similar to the following screen shot, however, the numbers may vary.

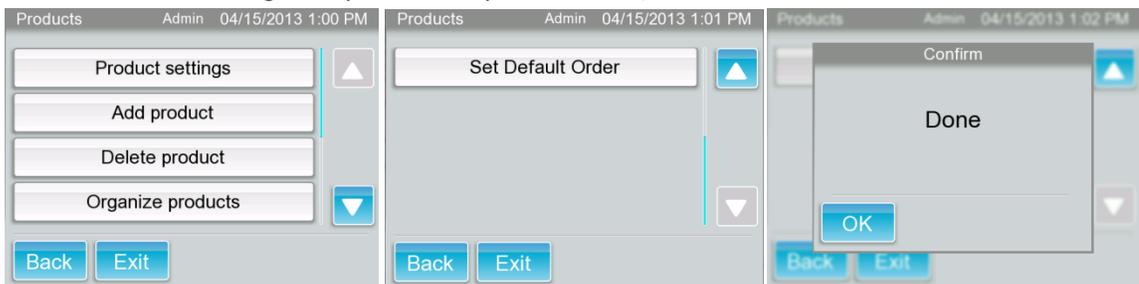


- 9) For official users, retain a copy of the change log with the following procedure:
  - a. Insert the USB drive into one of the ports on the back of the unit.
  - b. While viewing the audit trail (step 7) press “Export” key. When “Export completed successfully” message appears, remove the USB drive and clear the message with “OK” button. Press “Exit” to return to main menu. The audit trail file name on the USB drive will be “ChangeLog\_...” with the current date following, and the instrument serial number.

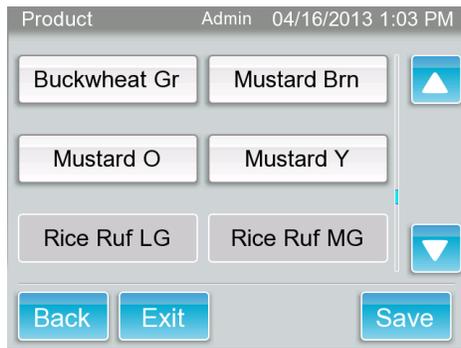


- 10) Remove obsolete product names (obsolete calibrations are deactivated, but the names still appear at the end of the product list)

- a. Set access to “administrator” following procedure of step 3 again
- b. Select (Menu / Products / down arrow) {note that newer software versions may include “Set Default Order” within the “Organize products” option instead}



- c. Select ‘Set Default Order’. (Some software versions also contain “Set Order.” Do not select this.)
- d. Acknowledge “done” with OK button
- e. Turn the power off, wait a few seconds, turn power back on. Set access to “administrator” following procedure of step 3 again
- f. Select (Menu / Products / Organize products)
- g. {note that newer software versions may include “Set Order” within the “Organize products” option}
- h. Use the down-arrow key to scroll down until the obsolete grain names appear (at the end of the list)
  - i. If the grain list does not appear as below, please call Perten Instruments at 217-585-9440 to upgrade to a newer software version.

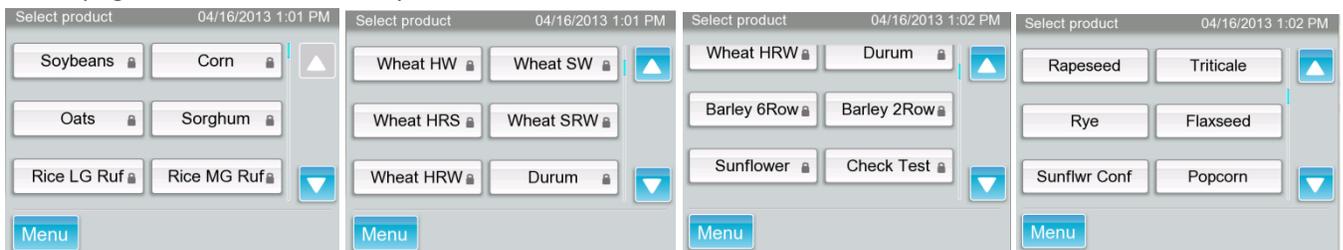


- i. Touch each grain type to be hidden to turn it "grey"
- j. Use the up/down arrow buttons to show other pages of grain names, and touch each one until all the obsolete grain names are grey. In some early software versions, the product names may move in the list when they are hidden. Use the arrow keys to scroll up and down to confirm the obsolete grain names are changed to "grey".
- k. This is the list of obsolete product names that should be "grey" when finished:



- l. Press "Save"
- m. Press "Exit"

11) To confirm that only valid grain names are shown, use the "down arrow" key to scroll through the active grains. These pages should match exactly:





12) The update is complete.

If you encounter any problems with this procedure, free phone assistance is available through Perten Instruments 7 am to 6 pm Central time, Monday – Friday at (217) 585-9440.