

Firmware Update

HX204 and HS153

1 Introduction

Before updating read this document carefully. This document provides you with the relevant information for updating to the new firmware version from V2.11 on:

- preparation of USB flash drive with latest firmware
- performing back up
- It is no longer a requirement to manually remove results prior to a firmware update.

New function

The **Auto-delete** functionality prevents the instrument from filling up with old measurement results by removing them. We advise you to use this function to improve the performance of your Moisture Analyzer.

2 Update Procedure



CAUTION

Data loss after system update

During update of the system, the existing data such as settings, methods or results are migrated. It may happen that data are lost or the update fails.

- We advise you, to first create a recovery point of the system on an external storage device, **see** System backup (page 2).

For any firmware update, the following steps must be carried out:

- | | |
|--|---|
| Step 1 Prepare the USB flash drive. | See below |
| Step 2 Back up system data. | See System backup (page 2) |
| Step 3 Execute firmware update. | See Execute firmware update (page 2) |

Note for using USB memory sticks

- Memory sticks up to 32 GB are supported.
- Recommended formatting: FAT32 (NTFS not supported).
- Max. cluster size: 32 KB.
- Max. file size: 32 MB.
- Make sure that the stick is fully inserted.
- Make sure that the write protection is deactivated if present.

Note

If you want to update more than 1 device we recommend to prepare several USB flash drives with the firmware. So you can update your devices in parallel.

2.1 Preparing step

- 1 Download the EXE file from our landing page onto the root of an empty USB flash drive (<http://www.mt.com/moisture-software>).
Or login on Balance-Support-Site (<http://www.mettler-toledo-support.com>).
- 2 Double click the EXE file to extract the necessary instruction files to the USB flash drive.
⇒ USB flash drive saves a folder **BinaryFiles** and a file **SN300_____sn**.

2.2 System backup

Navigation: Home > Settings > System and data management > Back up / Restore

This menu item allows you to create a recovery point of the system on an external storage device.

Back up

You can define the following parameters:

Parameter	Explanation	Values
File name	Defines the name of the new data file.	any
Location	Finds the location on the storage device.	Browse and select

Procedure:

- ▶ An external storage device is connected e.g. USB flash drive.
- 1 Select **Back up your system on external storage device....**
 - 2 Define the name of the new data file.
 - 3 Define the location on the storage device.
 - 4 To confirm, tap [**OK**].
 - 5 To start, tap [**Backup**].
To abort, tap [**Cancel**].

Note

After a backup you have saved all results in a machine-readable format. If you want to read them you can additionally export your results on an external memory device as a CSV or PDF summary. This export creates one file. An export of e.g. 500 results takes approximately 30 minutes.

2.3 Execute firmware update

Navigation: Home > Settings > System and data management > Update

This menu item allows you to update the instrument firmware. An average update takes approximately 15 - 20 minutes. If the data size is very big it might take up to 3 hours.

Attention

To prevent data loss, DO NOT disconnect the memory stick from the device and DO NOT disconnect the device from power.

You can define the following parameters:

Parameter	Explanation	Values
Update from file	Finds the location on the storage device and selects the file for updating.	Browse and select

- ▶ administrator rights are active
- 1 Insert USB flash drive with firmware for update into the USB port of the terminal.
- 2 Wait until the USB flash drive is recognized by the device.

3 Select **Home > Settings > System and data management > Update**.

If **Update** is not visible check that administrator rights are active. If you have an approved version you need to contact a service engineer for this update.

⇒ **Update** screen appears.

4 Tap **USB HD**.

5 Tap **Update from file**. **Browse and select** on the USB flash drive the file **SN300____.sn**.

6 Confirm with [**Update**] and wait until the firmware update is completely finished.

Attention

Do not remove the USB flash drive before the instrument has completely restarted.

⇒ The device will reboot (the instrument might reboot up to twice in between).

⇒ A message appears: **Operating system is up to date. Update instrument software?...**

7 Confirm with [**Update**].

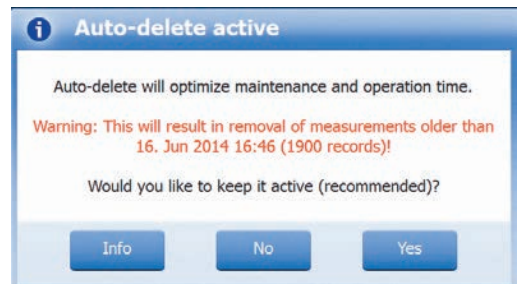
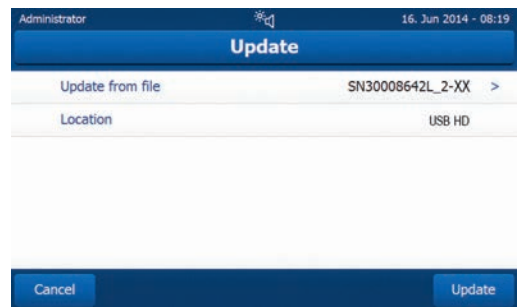
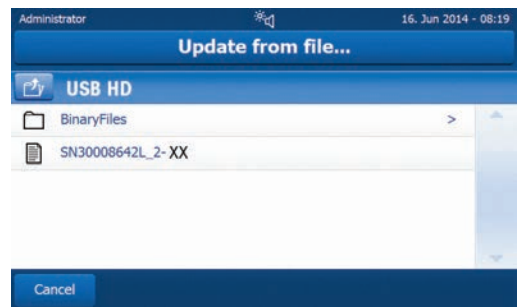
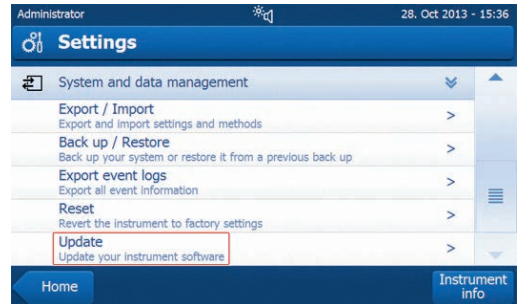
8 If there are more than 1000 results, a message appears. The message asks you if you want to activate **Auto-delete**. We recommend to confirm **Auto-delete** with [**YES**].

⇒ The oldest results > 1000 will be deleted.

Note

If you do NOT confirm **Auto-delete** - backup or export your data and activate the function later.

9 Wait until i.e. the system returns to the home screen.



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Subject to technical changes.

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