Short Instructions for Use:

MSP430 Update Assistant

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File: MSP430 Update Assistant_rev3	

A. Purpose of the document

This document describes the use of the MSP430 Update Assistant.

With this software a new firmware can be uploaded to the microcontroller of the Handheld Multigas Monitors via USB.

In addition the following can be performed via PC interface:

➢ Device Format

➢ Set Date (and time)

B. Installing the software

1. Open the latest version of the Firmware updater **"Flash Update Assistant V1.4.EXE"**

2. Follow the instructions for installing the software

3. After installation an icon is created on the desktop
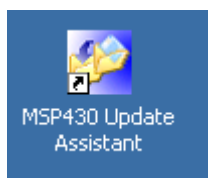
C. Updating the Handheld Multigas Monitor

1. Turn on the Handheld Multigas Monitor

⚠ **Warning:**

Ensure that the battery of the device is fully charged or use the external power supply delivered with the device.
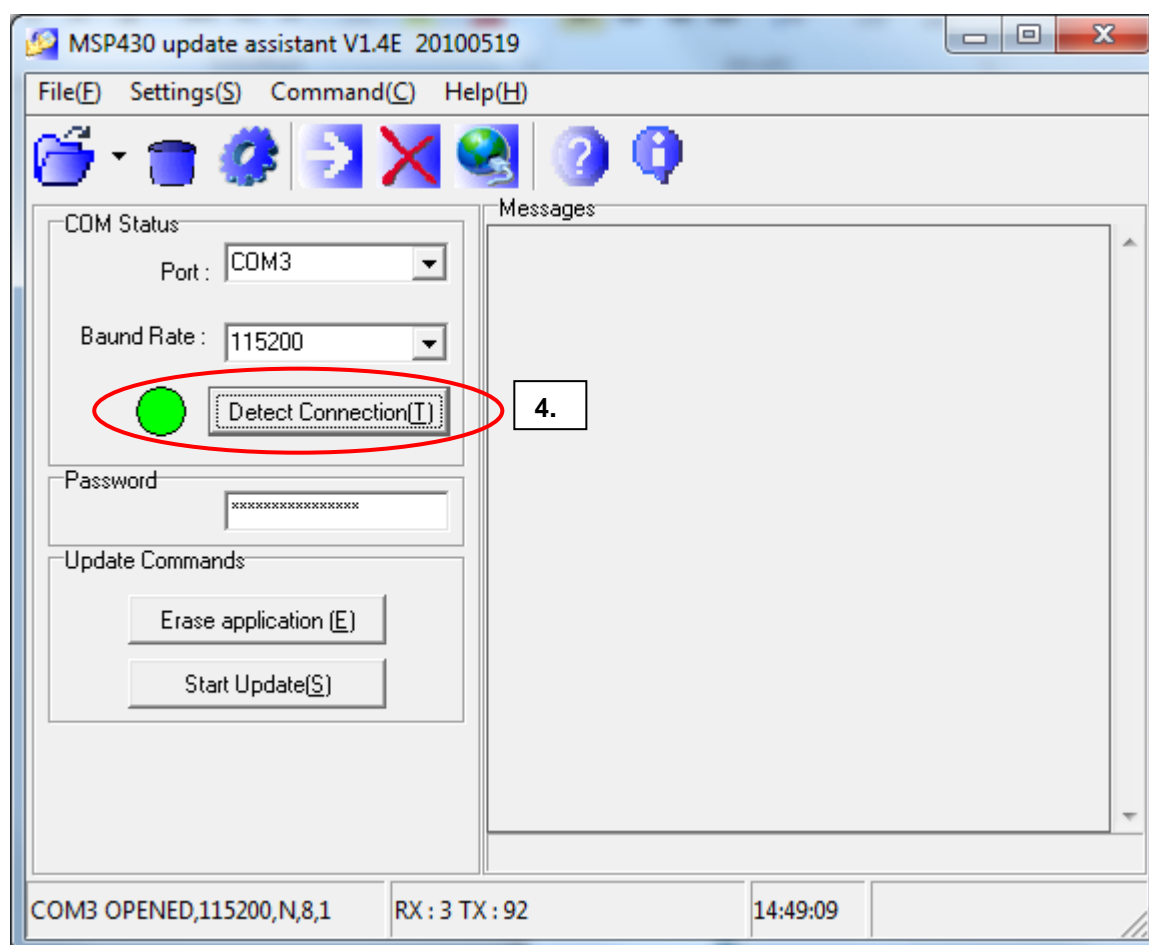
If the power supplied to the device is interrupted during the firmware update procedure, the device can no longer be updated with the MSP430 Update Assistant anymore.

2. Connect the device via USB to the PC.

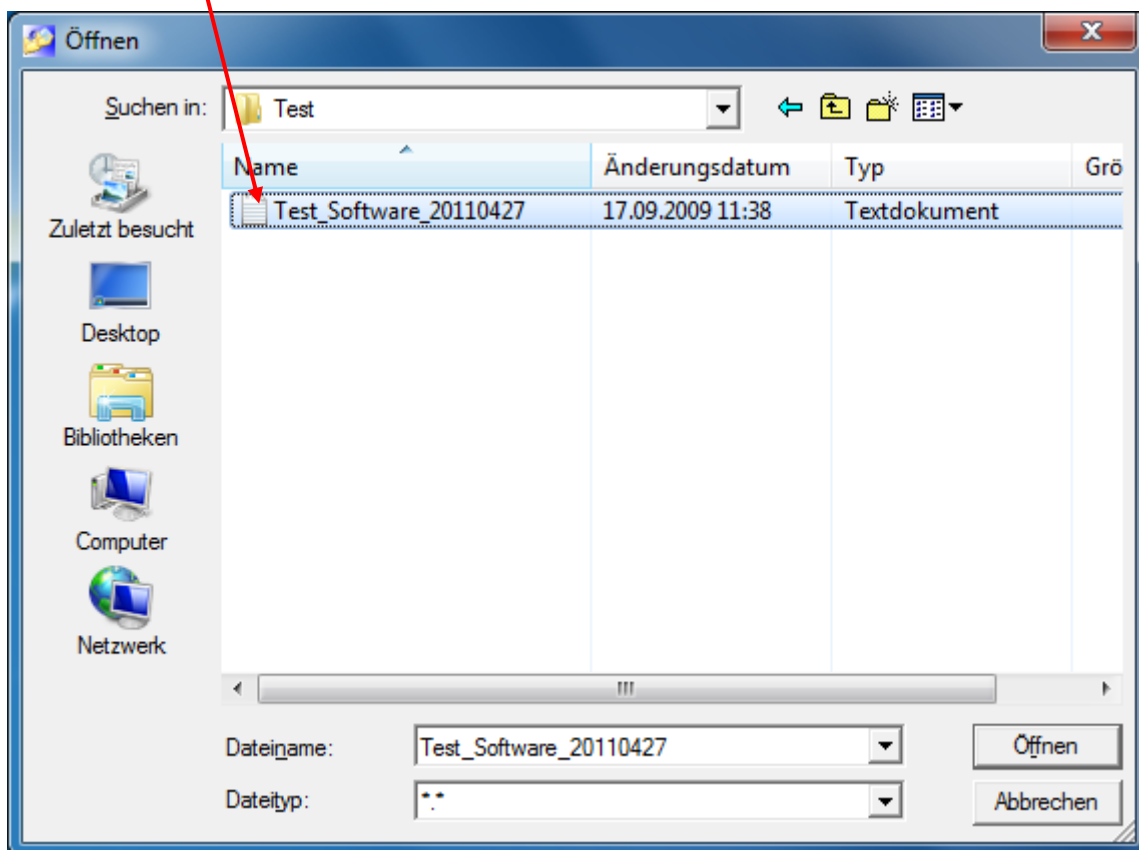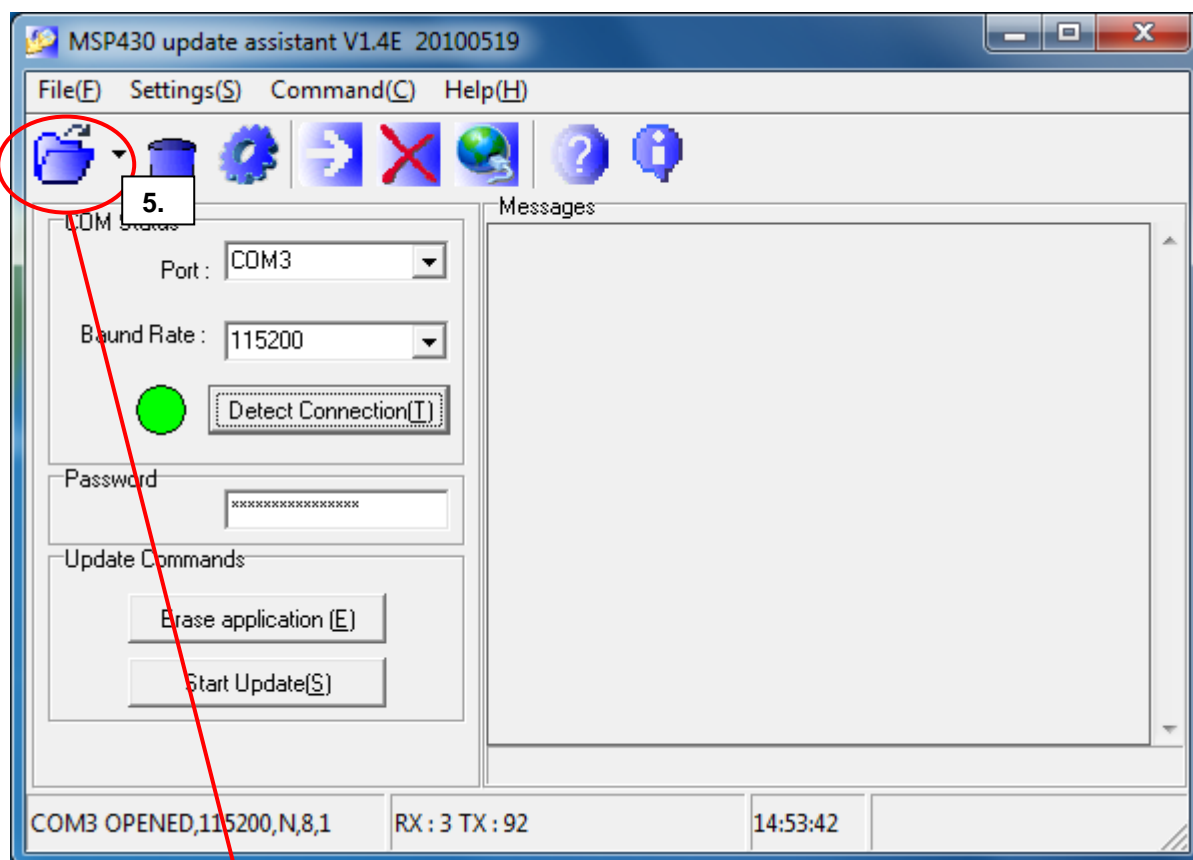The message "USB connected" is displayed.

3. Open the "MSP430 Update Assistant" Software

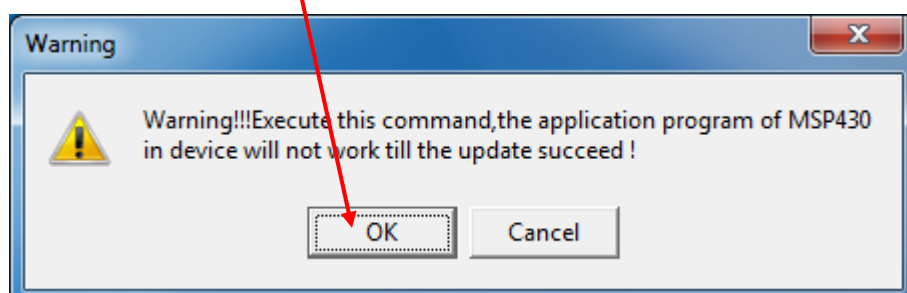4. Select **"Detect Connection"** to find the connection to the Handheld Multigas Monitor

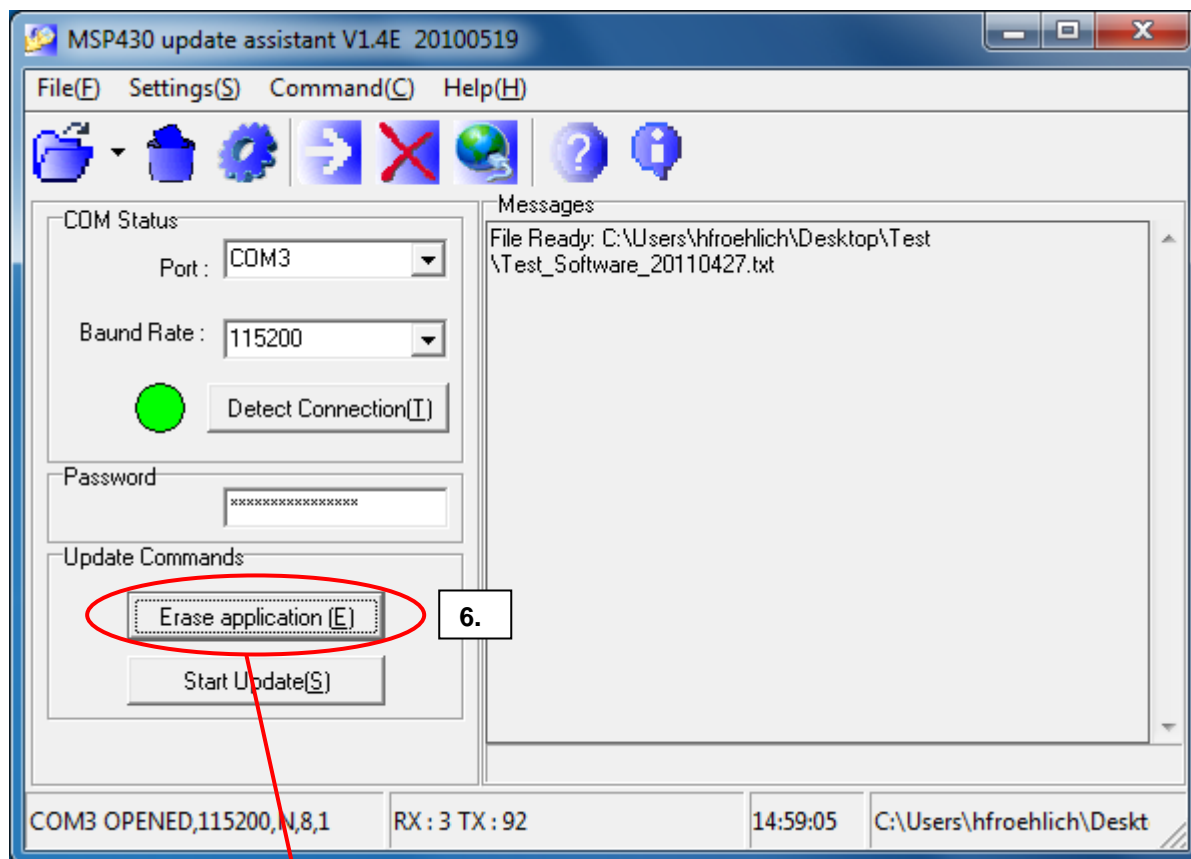5. Select the new firmware code file (.txt)

6. Erase the current firmware by selecting **"Erase application"**

7. Update the firmware by selecting **"Start Update"**
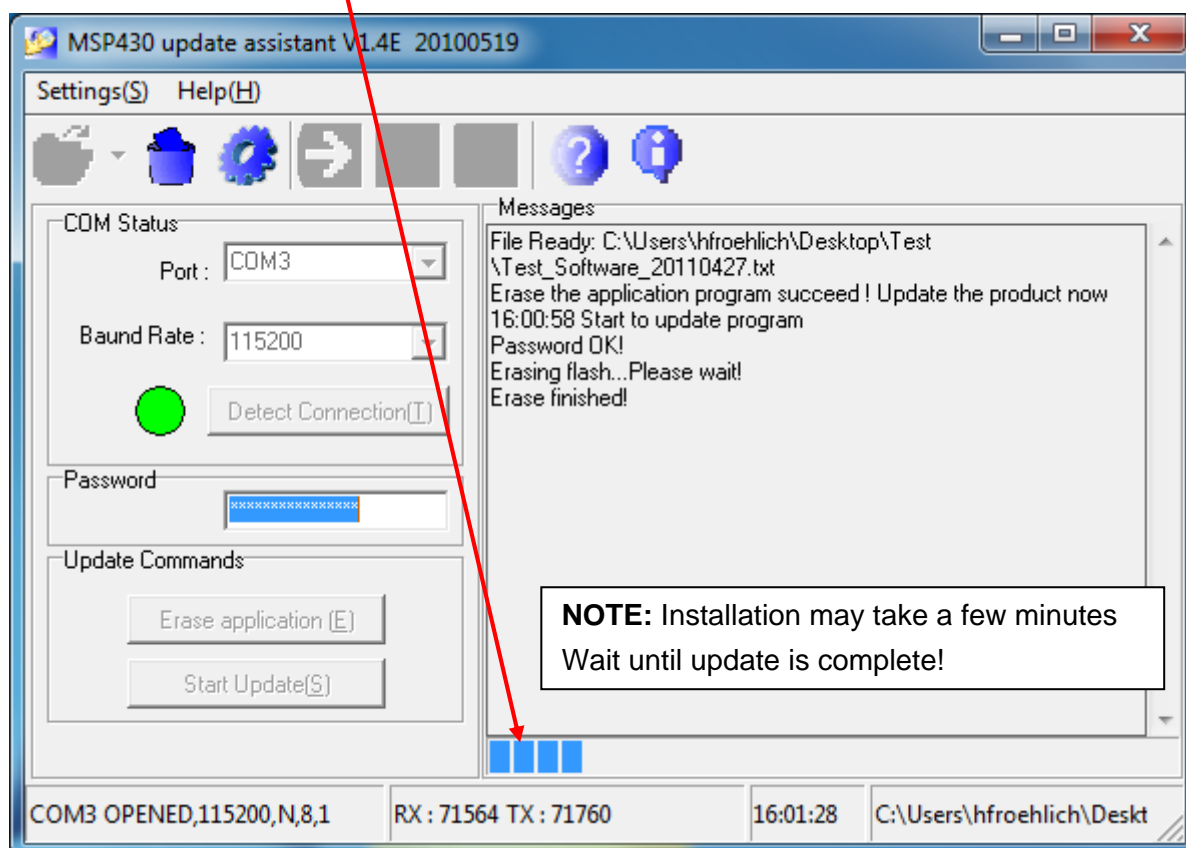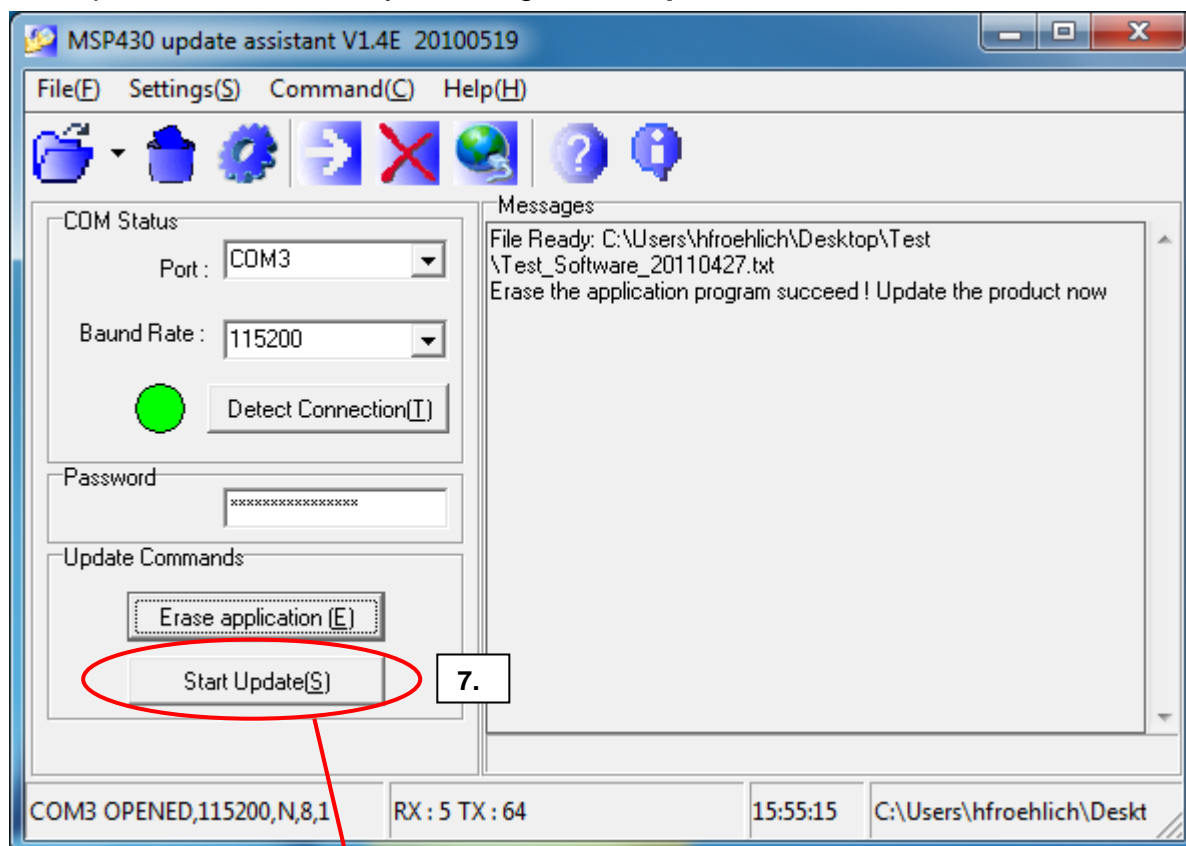
NOTE: Installation may take a few minutes
Wait until update is complete!

8. Message is displayed when device Firmware has successfully been updated
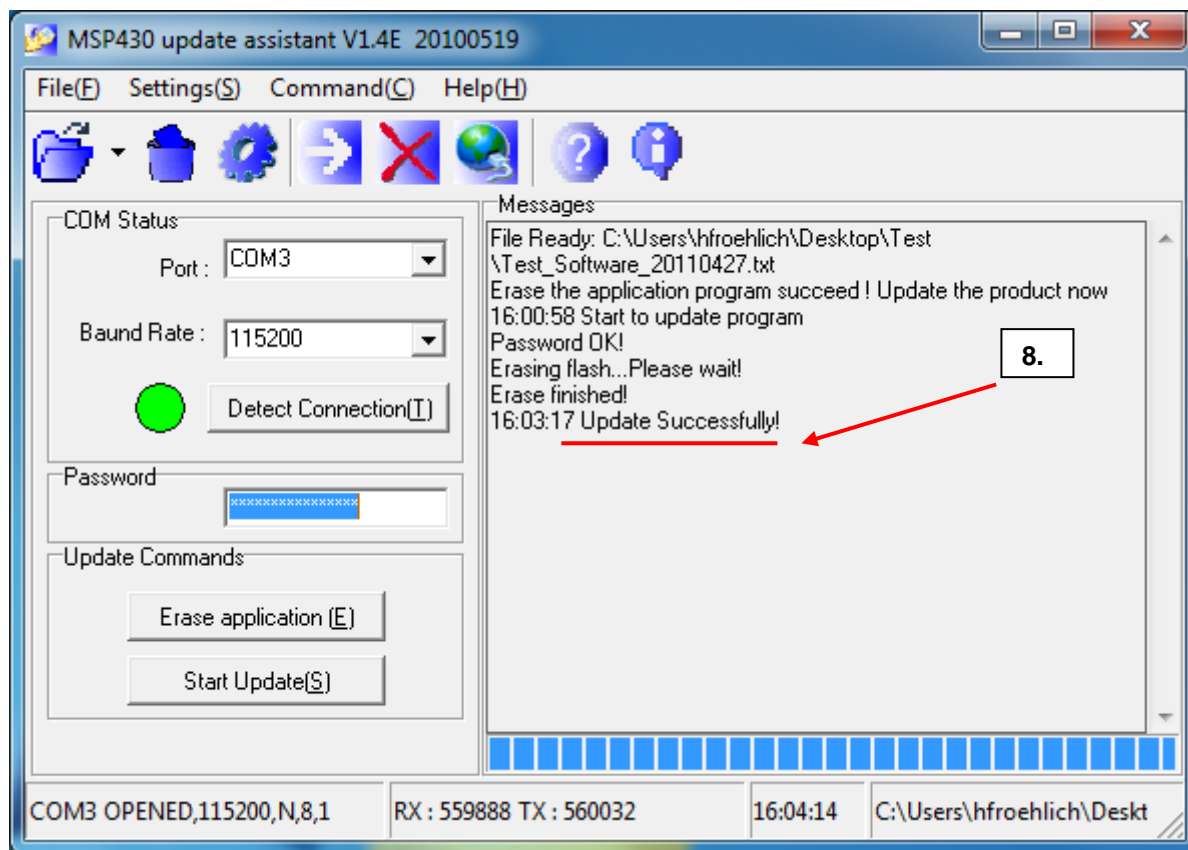
⚠ Warning:

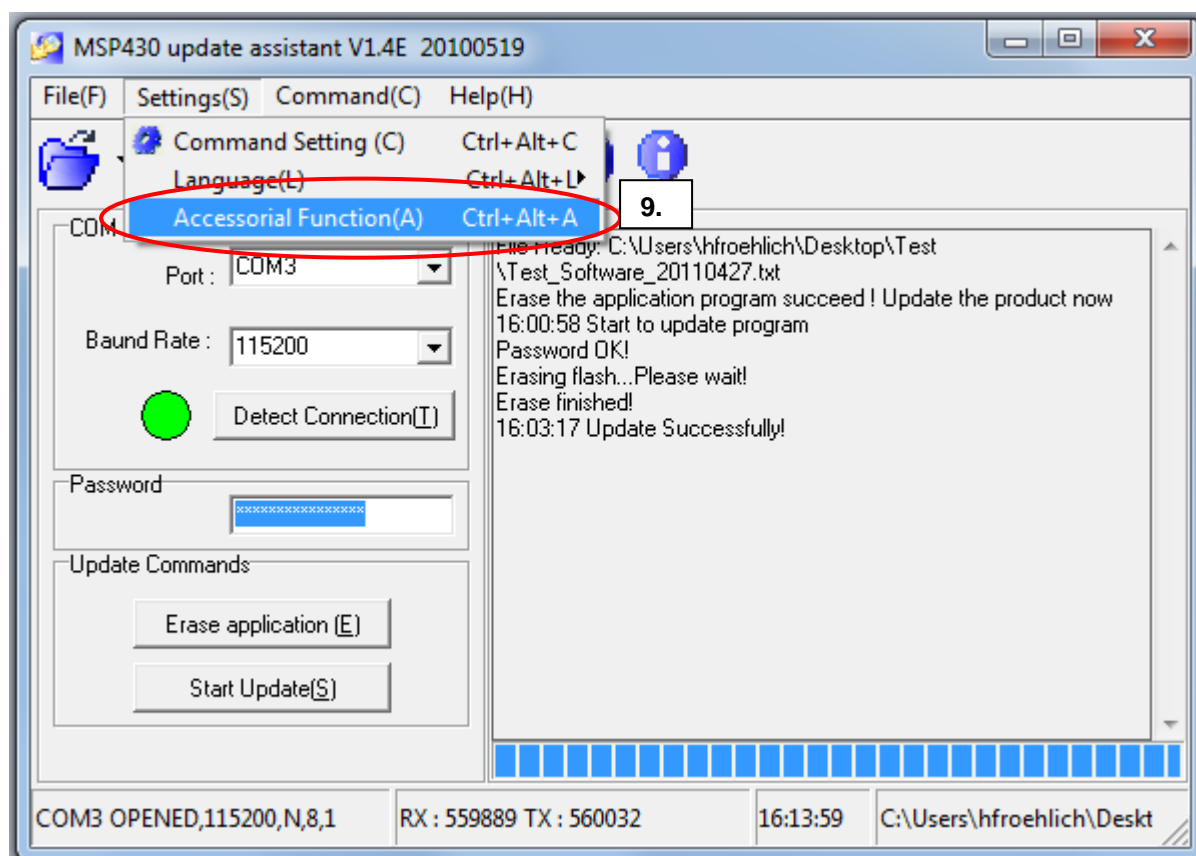To ensure correct function of the Firmware always format the device after each Firmware update.

See chapter **"D. Set Time and Device Format"** for detailed information on how to perform device format.

D. Set Time and Device Format

After updating the device Firmware always set the device date and time and perform device format by following the instructions below:

9. Turn on the updated Handheld Multigas Monitor

10. Ensure that the device is connected to the PC via USB

The message "USB connected" is displayed.

11. Select **"Accessorial Function"** under "Settings" of the software version V1.4 or higher

12. Select **"Set Date"**
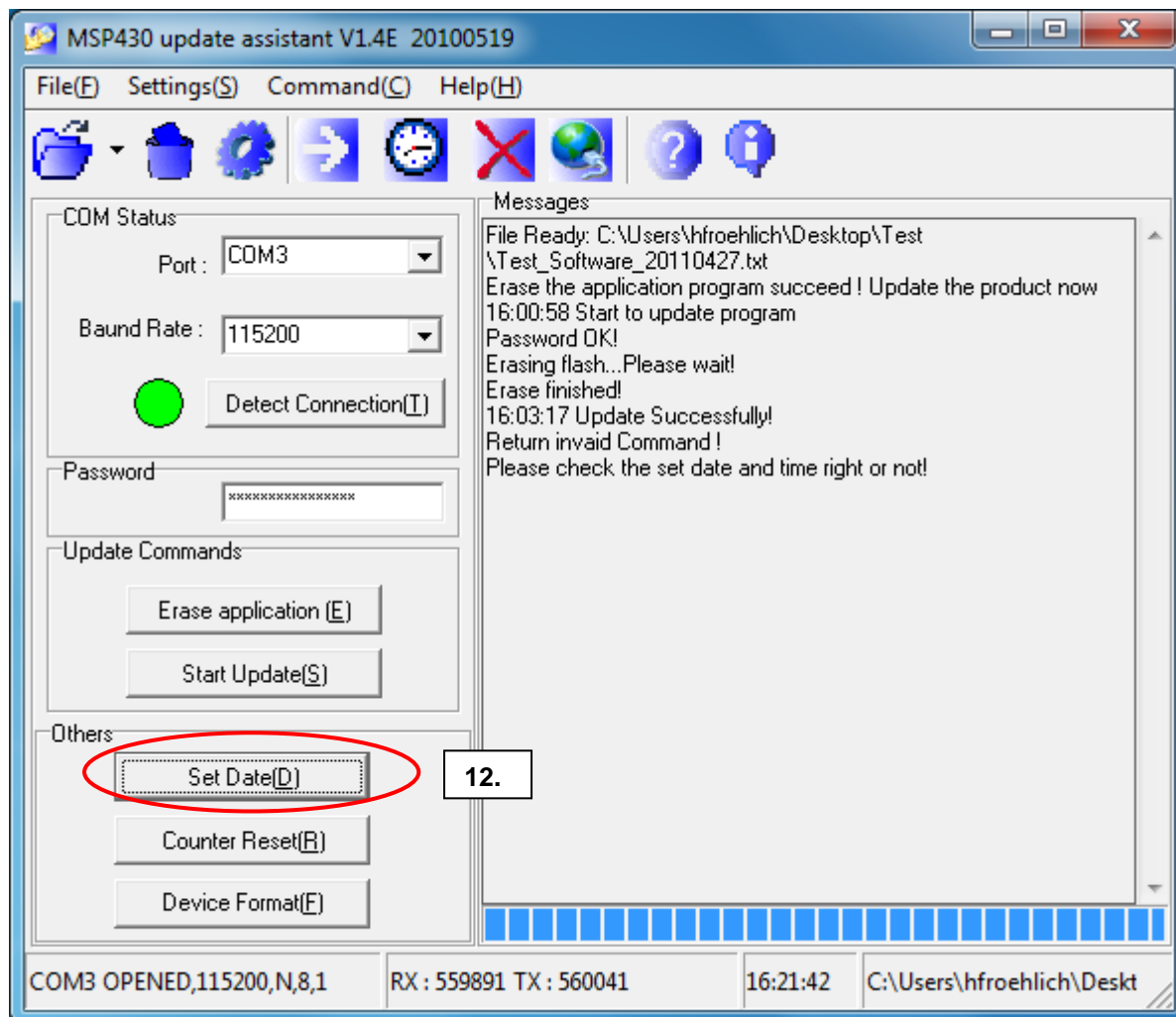
Note: Check at the device if the correct time is displayed. If not, retry

13. Now select **"Device Format"**
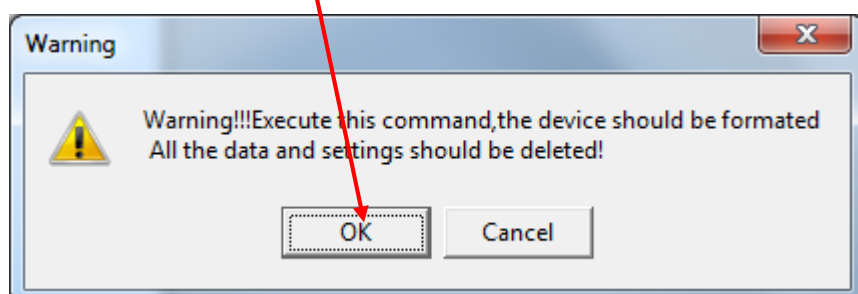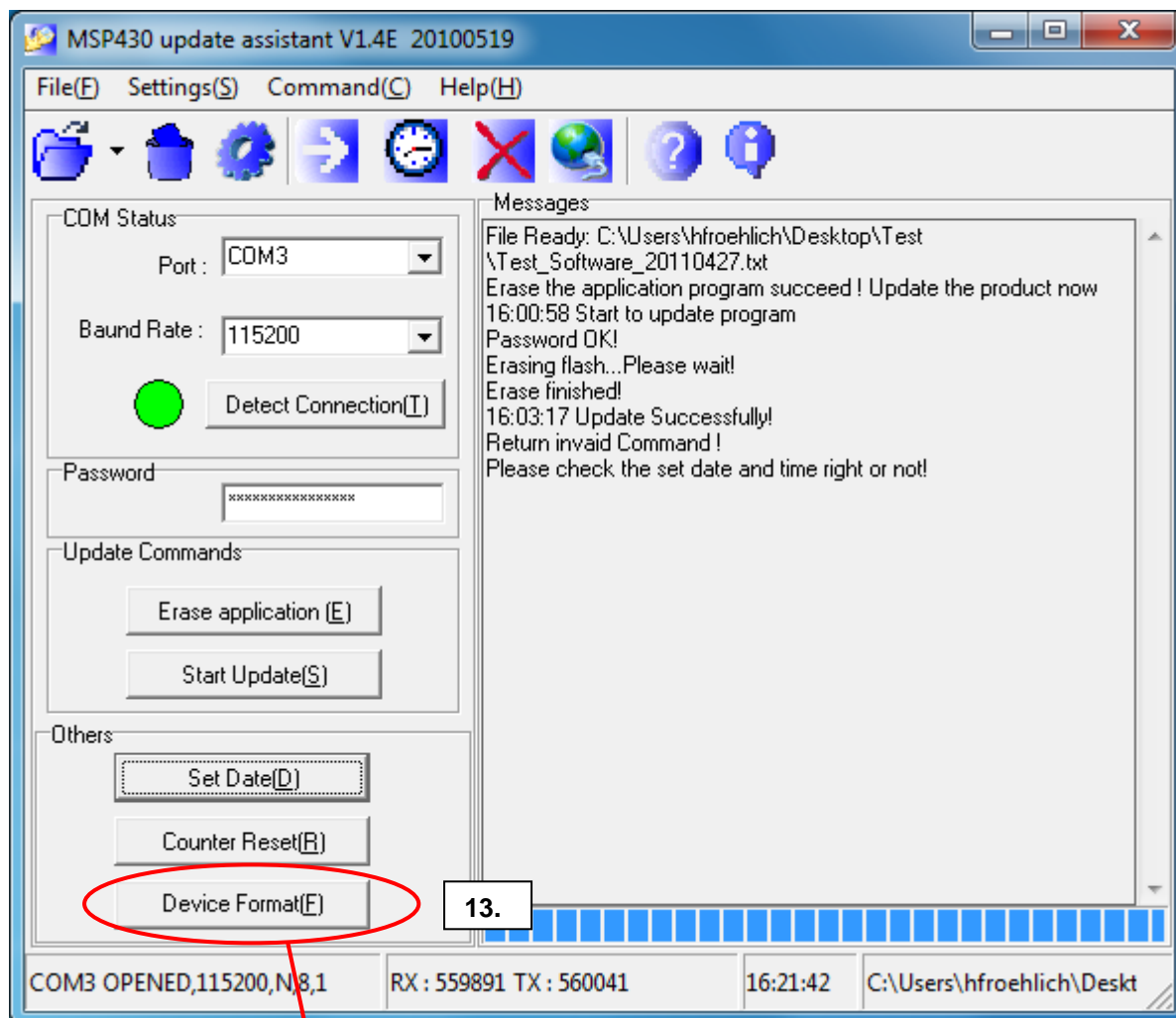
Note: If the device switches off after selecting "OK", Format Device was successful.