



CONTENTS

Upgrading Software.3

 Preparing the Update File3

 Preparing the DXN.3

 Updating the Software/Firmware5

Quick Boot.8

UPGRADING SOFTWARE

IMPORTANT


- The Dynasonics USB Update Drive is formatted in FAT/FAT32. NTFS (New Technology File System) formats do not work.
- The upgrade is supplied as a self extracting zip file that you must extract on a PC before it can be loaded into the DXN.

Preparing the Update File

The latest revision of the software/firmware can be found at www.badgermeter.com.

1. Save the supplied zip file to a convenient place on your computer's hard drive.
2. Extract the "PortableFlowmeter_YYYYMMDD_RevX.zip". The completed extraction should place the contents in a folder named "PortableFlowmeter".

NOTE: The "YYYYMMDD" indicates the year, month, and day of the current revision. The X in the filename stands for the current revision letter (for example, M).

Name ▲	Date modified	Type	Size
 PortableFlowmeter	4/12/2013 12:20 PM	File Folder	

3. When the extraction process is complete, copy the entire "PortableFlowmeter" folder to the USB flash drive. Keep the loaded USB flash drive nearby, as it will be used in the update process.

Preparing the DXN

Revision E and later of the DXN firmware has multi-language capabilities. To change the language displayed on the menu tabs, press the language button until the proper language is displayed on the screen.

1. Power up the DXN. By default, the meter should display the *Main>Meters* screen after the complete boot process.



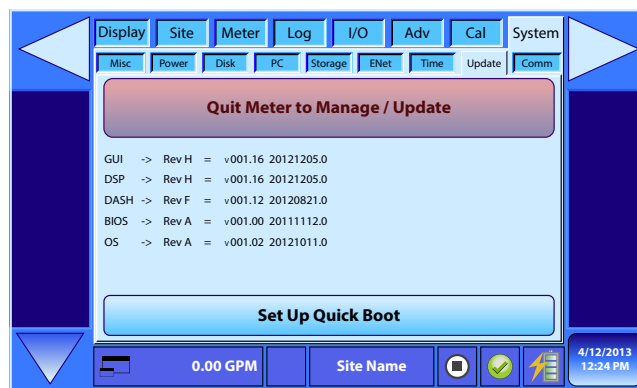
2. Insert the USB flash drive into the designated port on top of the DXN.



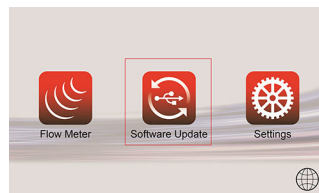
3. Navigate to the *System>Update* screen, by pressing the **System** group tab. Then, press the **Update** page tab.



4. Within the *System>Update* screen, press **Quit Meter to Manage/Update**.



5. Press **Software Update**.

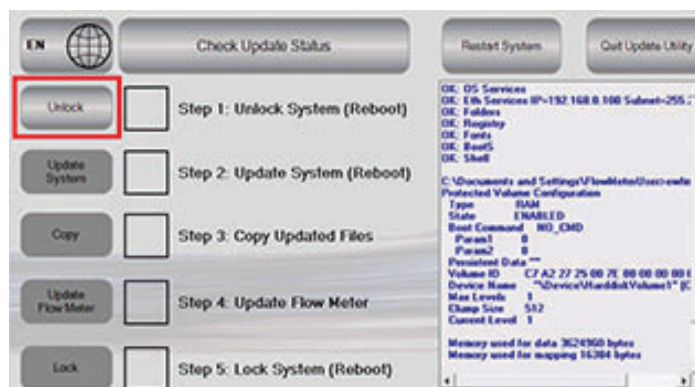


Updating the Software/Firmware

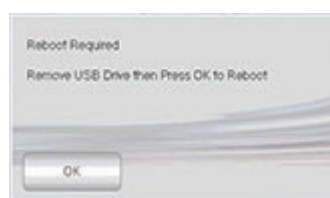
After loading the files onto a USB flash drive and preparing the unit to be updated, the actual update process consists of five steps. As each step is completed, a green check box will appear, indicating that the step was successfully completed.

1. Unlocking the System

- a. Press **Unlock**, located to the left of "Step 1: Unlock System (Reboot)"



NOTE: A confirmation prompt appears in the center of the screen saying "Reboot Required"



- b. Remove the USB Flash Drive
- c. Press **OK** in the confirmation prompt
- d. The system then reboots. After the reboot, the display shows a series of buttons with one grayed-out (Software Update).
- e. Re-insert the USB flash drive into the designated port. When the update drive is inserted, the Software Update will illuminate after a few seconds.

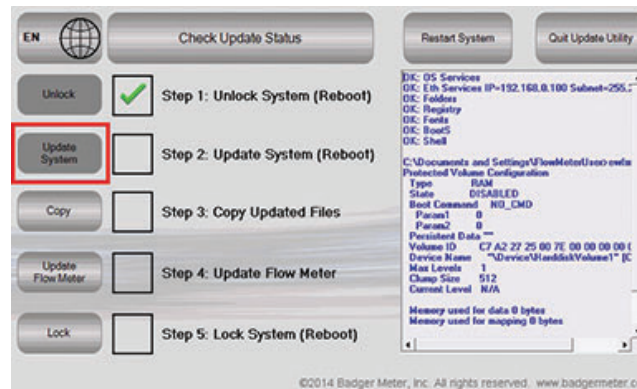


- f. Press Software Update

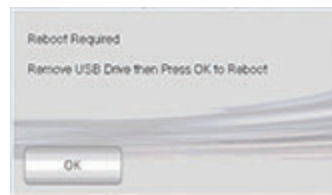
2. Update the System

NOTE: If the DXN has been updated before, you may notice a check mark present in Step 2. If this happens, you can skip this portion and move directly to Step 3.

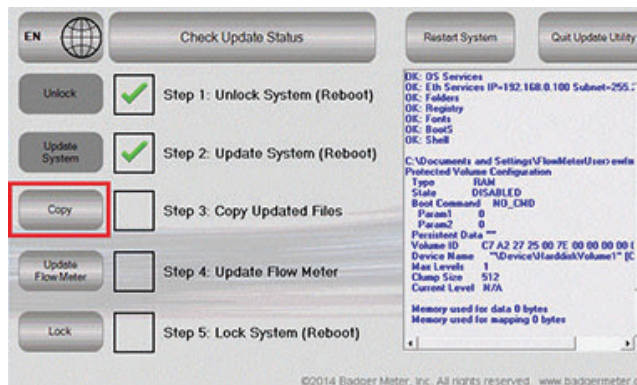
- a. Press **Update System**, located to the left of “Step 2: Update System (Reboot)”



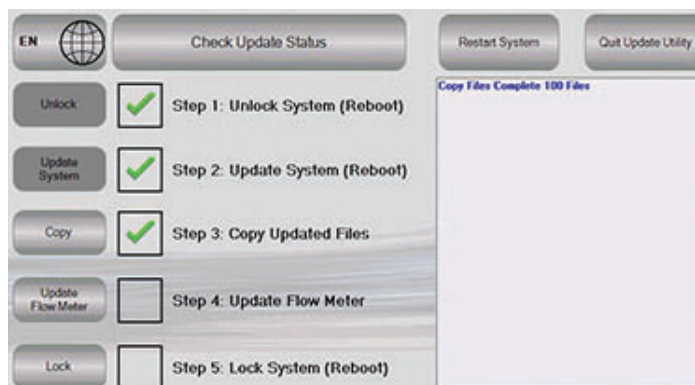
NOTE: A confirmation prompt appears in the center of the screen that says “Reboot Required”.



- b. Follow steps b...f from Step 1.
3. Copying Updated Files
 - a. Press **Copy**, located to the left of “Step 3: Copy Updated Files”.



NOTE: A green checkbox appears once the copy is completed.

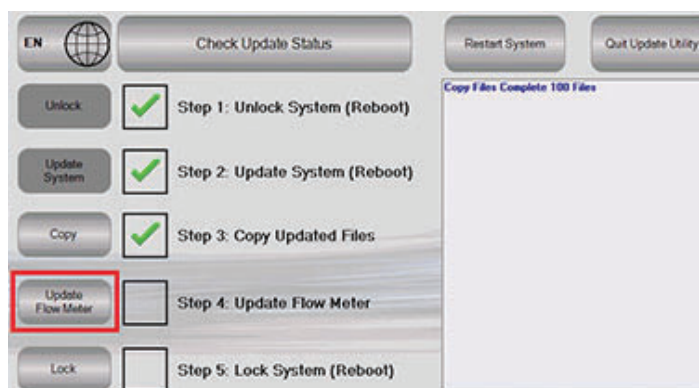


NOTE: If the process hangs-up, press **Copy** a second time. The process may take a few minutes to complete. When the process is complete, use the scroll bars in the message area find to the message “!Successful Update!...Exiting Reprogramming Mode”. This verifies that the updating process has terminated

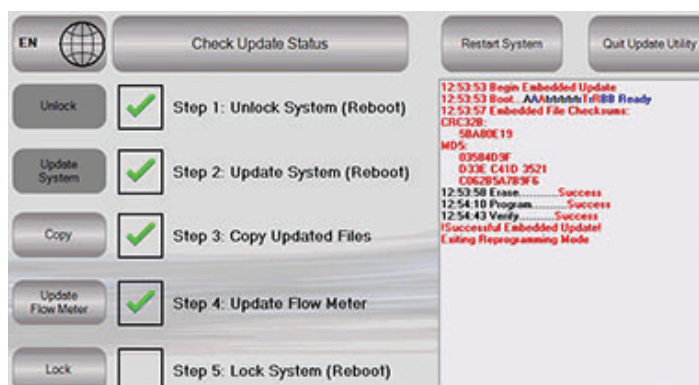
CAUTION: YOU DO NOT NEED TO REMOVE THE USB FLASH DRIVE AT THIS POINT, LIKE IN THE PREVIOUS STEPS.

4. Updating the Flow Meter

- a. Press **Update Flow Meter**, located to the left of “Step 4: Update Flow Meter”.



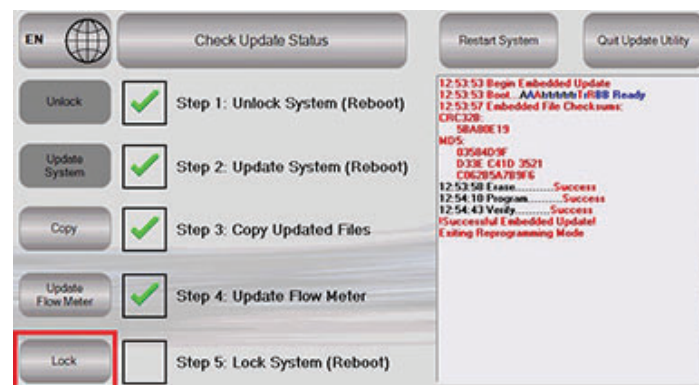
NOTE: At this time, a short process runs, with text filling the right window pane. A green checkbox appears once the copy is complete.



CAUTION: YOU DO NOT NEED TO REMOVE THE USB FLASH DRIVE AT THIS POINT, LIKE IN THE PREVIOUS STEPS.

5. Locking the System

- a. Press **Lock**, located to the left of “Step 5: Update Flow Meter”.



NOTE: A confirmation prompt appears in the center of the screen saying “Reboot Required”.



- b. Remove the USB flash drive.
- c. Press OK in the confirmation prompt.

NOTE: If the USB flash drive is not removed before pressing OK, the unit may lock-up. The error message “Lock EWF Fail” may also appear in the text area. Remove the USB flash drive. When the meter returns to the screen with the grayed-out Software Update button, press Start Flow Meter to resume normal operations.

See the user manual for additional instruction on clearing a lock-up. When the thumb drive is removed the device may continue on to a system reboot but hang at the Dynasonics splash screen.

This condition requires a hard reboot. Press and hold the main power button until the unit turns off. Press the power button again to start the meter.

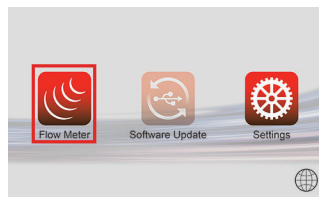
QUICK BOOT

It is highly recommended to configure the DXN to use the Quick Boot process as described in the following.

To enable Quick Boot from the main screen select **Update** (*System ► Update*) and then press the **Set Up Quick Boot** button.



The application reverts to the *Normal Start APP* screen. Press the **Start Flow Meter** button. The DXN enters a short hibernation process and then shuts down.



On the next power up, the unit starts in Quick Boot mode.

Control. Manage. Optimize.

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