

TECH NOTES

F-4300 Clamp-On Ultrasonic Flow Meter



FIRMWARE UPDATE

OVERVIEW

The F-4300 firmware can be updated easily via the USB interface. The update requires a **.bin** file that can be obtained by contacting ONICON technical support.

TOOLS REQUIRED

- USB 2.0 Drive - provided with each meter (or user supplied)
- .bin file - provided via email from ONICON technical support



SUMMARY

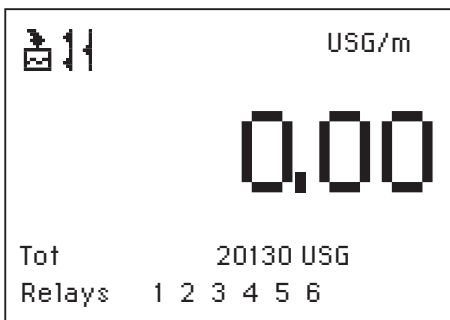
1. Save the .bin files provided by ONICON technical support onto the USB drive. The Utility board and CommBoard will have different .bin file names.


IMPORTANT NOTE

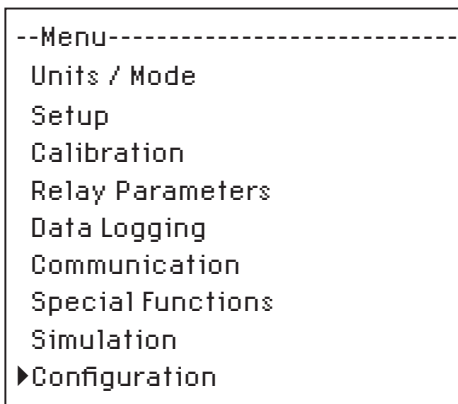
DO NOT change the file name. Ensure that it is the only file on the USB drive that has this name.



2. Access the Configuration menu, and enable the Update Firmware function.
3. Insert the USB drive when prompted by the meter.
4. Allow the update to occur, and remove the USB drive when prompted by the meter.

PROCEDURE - UTILITY BOARD UPDATE





1. From the main screen, press the RIGHT  arrow button to access the program menu.



2. Press the DOWN  arrow button to "Configuration". Press the RIGHT  arrow to enter the Configuration menu.

PROCEDURE - UTILITY BOARD UPDATE (CONTINUED)

```
--Configuration-----  
Serial#           000012345  
▶ Utility         1.26.0.5  
Transit Time      1.38.1  
CommBoard        1.18.0  
Relays           2  
Analog Out       1
```

3. Press the DOWN  arrow to "Utility". Press the RIGHT  arrow to highlight the Utility firmware version.


```
--Configuration-----  
Serial#           000012345  
▶ Utility         Update  
Transit Time      1.38.1  
CommBoard        1.18.0  
Relays           2  
Analog Out       1
```

4. Press the UP  or DOWN  arrow to change the firmware version to "Update".

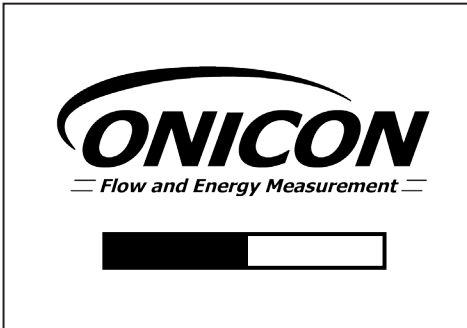
IMPORTANT NOTE

Before proceeding, ensure that power to the meter will not be interrupted.

```
--Configuration-----  
Serial#           000012345  
▶ Utility         Insert USB  
Transit Time      1.38.1  
CommBoard        1.18.0  
Relays           2  
Analog Out       1
```

5. Press the ENTER  button to start the update procedure. "Insert USB" will flash on the screen.

PROCEDURE - UTILITY BOARD UPDATE (CONTINUED)




6. Insert the USB drive with the XXXXX.bin file on it into the USB port located on the front of the meter. The meter will confirm that the .bin file exists on the drive, verify it's integrity, and then perform the update.



7. When prompted, remove the USB drive. The meter will reboot and the update is complete.



PROCEDURE - COMM BOARD UPDATE





1. From the main screen, press the RIGHT  arrow button to access the program menu.

PROCEDURE - COMM BOARD UPDATE (CONTINUED)

```
--Menu-----  
Units / Mode  
Setup  
Calibration  
Relay Parameters  
Data Logging  
Communication  
Special Functions  
Simulation  
▶ Configuration
```

2. Press the DOWN  arrow button to "Configuration". Press the RIGHT  arrow to enter the Configuration menu.

```
--Configuration-----  
Serial#          000012345  
Utility          1.26.0.5  
Transit Time     1.38.1  
▶ CommBoard     1.18.0  
Relays          2  
Analog Out      1
```

3. Press the DOWN  arrow to "CommBoard". Press the RIGHT  arrow to highlight the CommBoard firmware version.

```
--Configuration-----  
Serial#          000012345  
Utility          1.26.0.5  
Transit Time     1.38.1  
▶ CommBoard     Update  
Relays          2  
Analog Out      1
```

4. Press the UP  or DOWN  arrow to change the firmware version to "Update".


IMPORTANT NOTE

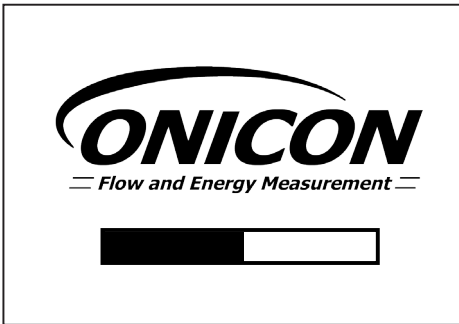
Before proceeding, ensure the power to the meter will not be interrupted.

F-4300 Clamp-On Ultrasonic Flow Meter FIRMWARE UPDATE

PROCEDURE - COMM BOARD UPDATE (CONTINUED)

```
--Configuration-----  
Serial#           000012345  
Utility           1.26.0.5  
Transit Time     1.38.1  
▶ CommBoard      Insert USB  
Relays           2  
Analog Out       1
```

5. Press the ENTER  button to start the update procedure.
"Insert USB" will flash on the screen.



6. Insert the USB drive with the XXXXX.bin file on it into the USB port located on the front of the meter. The meter will confirm that the .bin file exists on the drive, verify it's integrity, and then perform the update.



7. When prompted, remove the USB drive. The meter will reboot and the update is complete.

If you have any questions or concerns about the firmware update, please contact ONICON technical support at (727) 447-6140 or via email at techsupport@onicon.com.

