



April, 2024

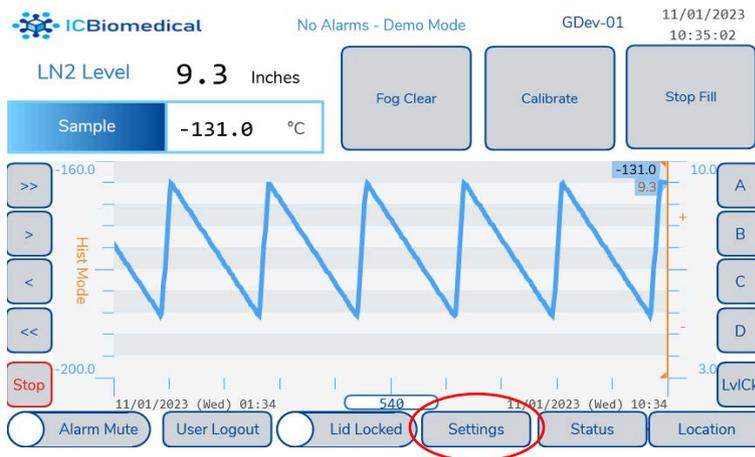
SERVICE BULLETIN SB-2024-04-01 Rev A

Subject: Revolution Controller Software Upgrade

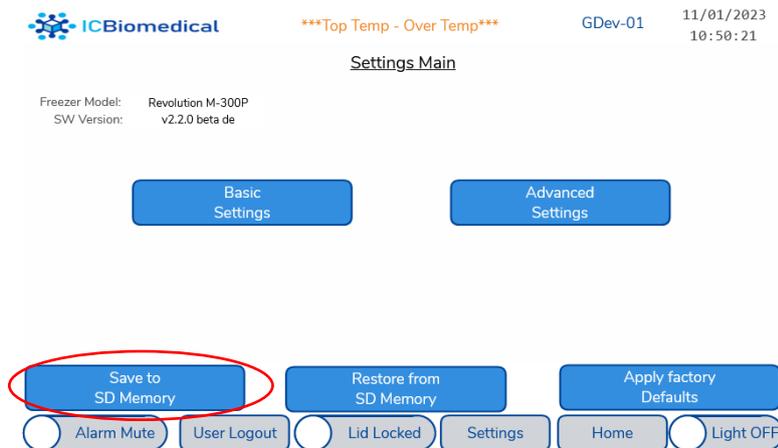
This service bulletin provides customers with information on how to perform a software upgrade on the Revolution controller used on Revolution and Evolution products. Software is delivered on a USB key and is obtainable from IC Biomedical on request.

Upgrade Instructions

- 1.0 Save Current Settings:
 - 1.1 Log into the controller as Admin
 - 1.2 Navigate to "Settings"



- 1.3 Press "Save to SD Memory"



1-855-750-8191

www.icbiomedical.com

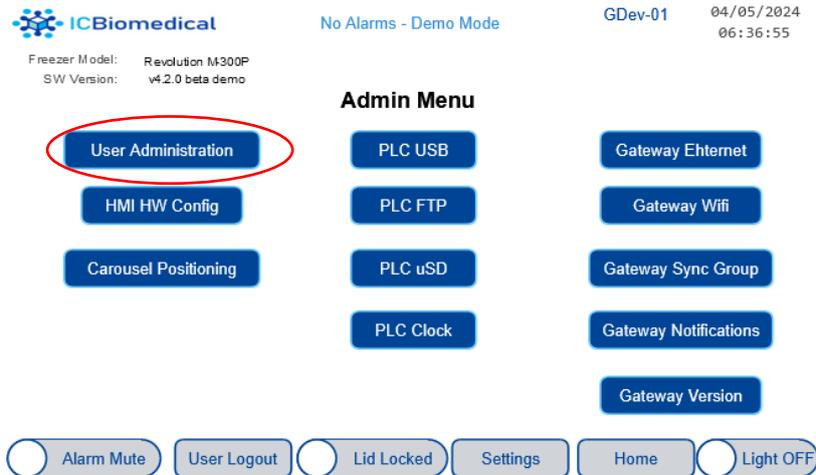
1031 Cass White Road, NW
Cartersville, Georgia 30121

2.0 Export User Credentials

- 2.1 If user credentials have been configured, these will need to be manually exported as part of the software update process. If no user credentials have been configured and the controller is being used with factory defaults, move to section 3.0.
- 2.2 Insert a blank USB stick into the front USB port, next to the controller display



2.3 Press "User Administration"

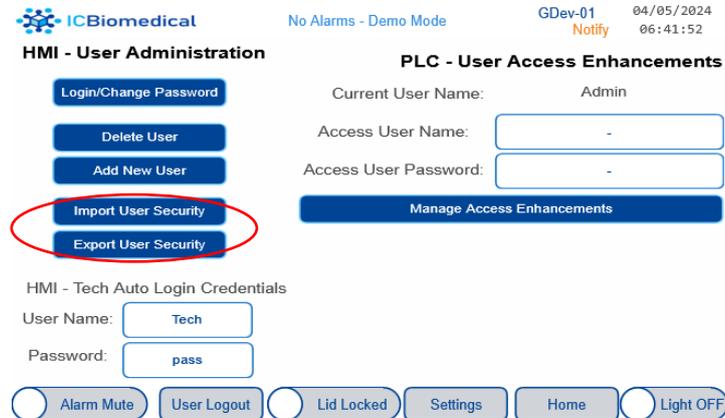


 1-855-750-8191

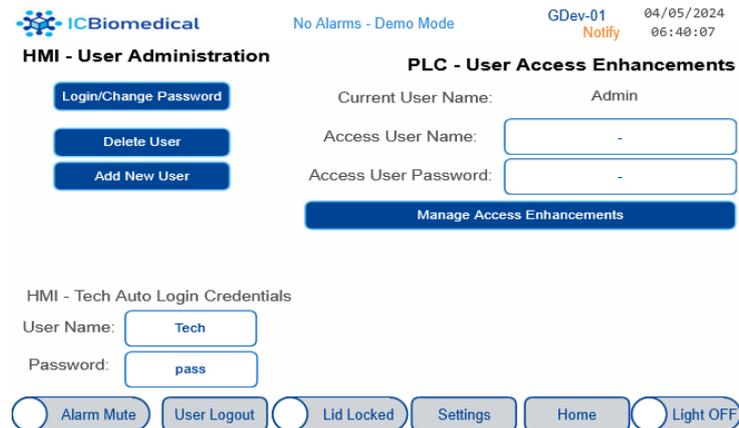
 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121

2.3.1 If the USB stick is detected correctly, the following screen will appear:



2.3.2 If USB stick is not detected correctly, the options to Import/Export User Security will not be displayed:



2.4 Export User Security

2.4.1 Press "Export User Security"

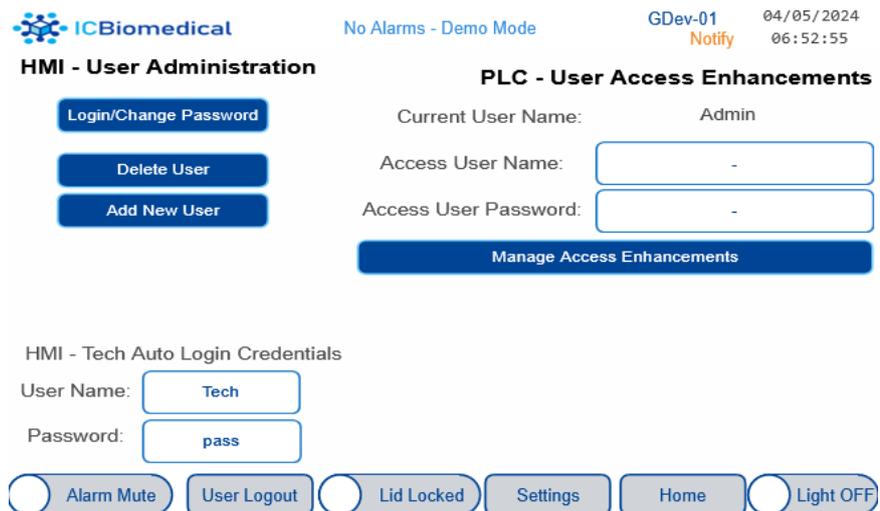
- Enter a unique password
- Re-Enter unique password

2.4.2 Press "OK"



2.5 Export Complete

2.5.1 When Export is Complete, the Import/Export User Security buttons will disappear and it is safe to remove the USB stick.



 1-855-750-8191

 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121

2.5.2 data.db is now saved in a UserManagement directory on the USB stick

Name	Date modified	Type	Size
data.db	4/5/2024 6:52 AM	Data Base File	20 KB

3.0 USB Controller Update

- 3.1 Power off the Revolution Controller by turning the battery power switch to the off position and disconnecting the power cord.
- 3.2 Insert the USB key into the USB port on the front of the Revolution/Evolution vessel, next to the controller display.



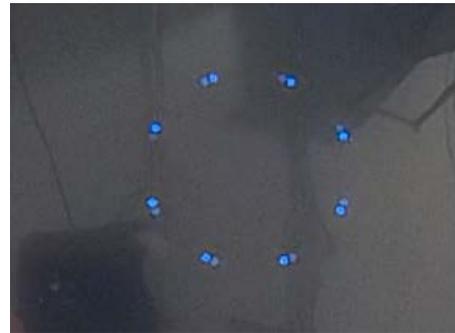
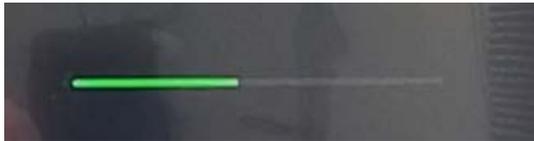
- 3.3 Re-insert the power cord and switch on the battery power switch.

 1-855-750-8191

 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121

3.4 Controller will turn on and the first part of the software update will begin.



 1-855-750-8191

 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121

- 3.5 Once the controller displays HMI / PLC Mismatch as below, power off the Revolution Controller again by turning the Battery power switch to the off position and disconnecting the power cord.

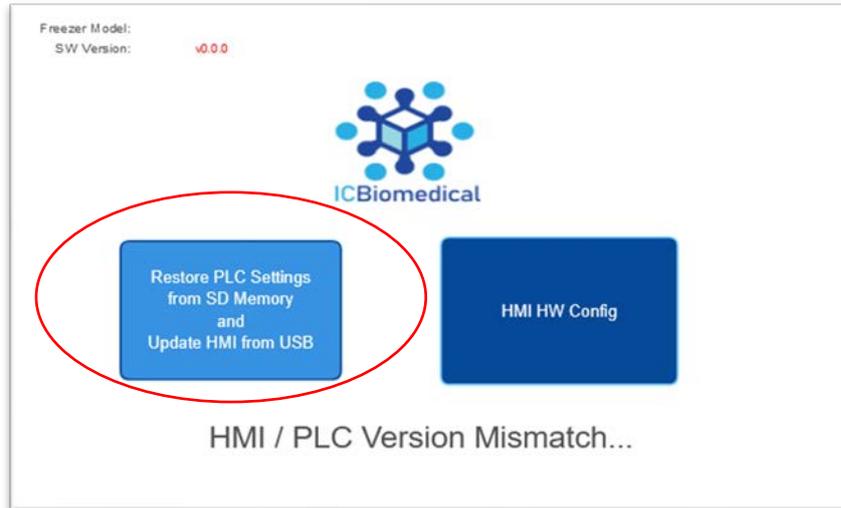


- 3.6 Remove the USB key from the front of the Revolution/Evolution vessel and then insert the USB key into the USB port on the back of the Revolution/Evolution vessel, which is located next to the communication ports.

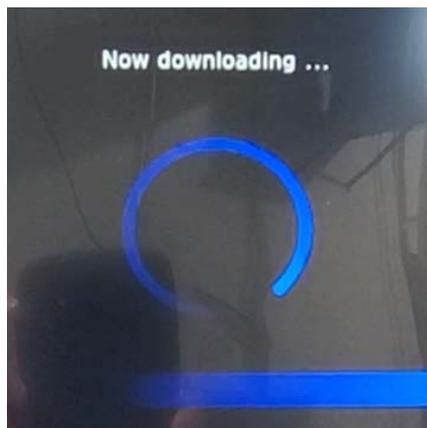


- 3.7 Re-insert the power cord and switch on the Battery power switch.
3.8 Controller will turn on and the software update will continue.

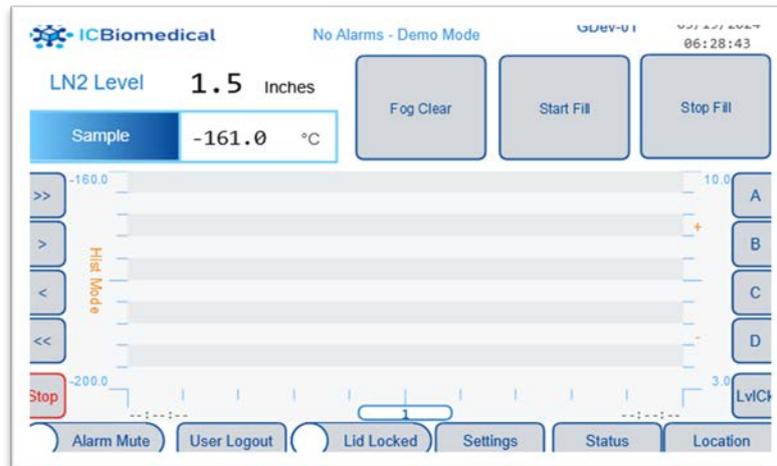
- 3.9 Once the screen shows as below, press option "Restore PLC Settings from SD Memory and Update HMI from USB"



- 3.10 Controller will then show it is downloading data from the USB.



3.11 Wait for main screen to return.



3.12 Power off the Revolution Controller by turning the battery power switch to the off position and disconnecting the power cord.

3.13 Remove the USB key

3.14 Re-insert the power cord and switch on the PLC power switch

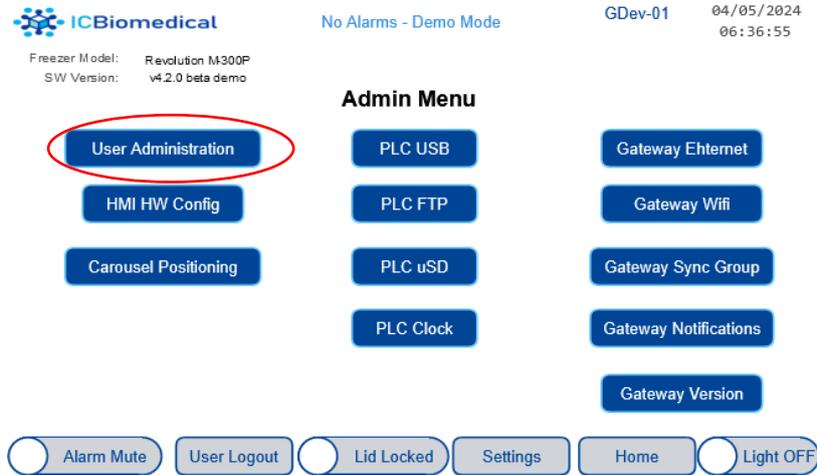
3.15 Software update is now complete.

4.0 Import User Credentials

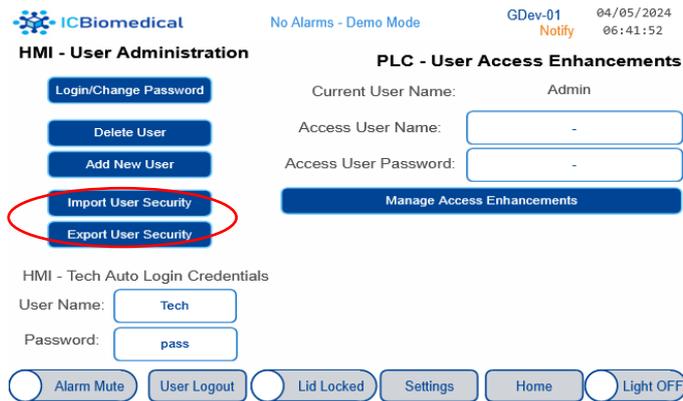
4.1 If step 2.0 was performed to Export User Credentials, insert the USB key containing data.db file the into the USB port on the front of the Revolution/Evolution vessel, next to the controller display.



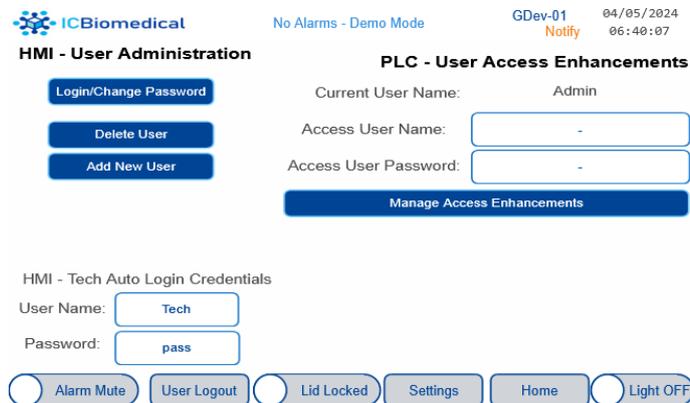
4.2 Press "User Administration"



4.2.1 If the USB stick is detected correctly, the following screen will appear:



4.2.2 If USB stick is not detected correctly, the options to Import/Export User Security will not be displayed:



 1-855-750-8191

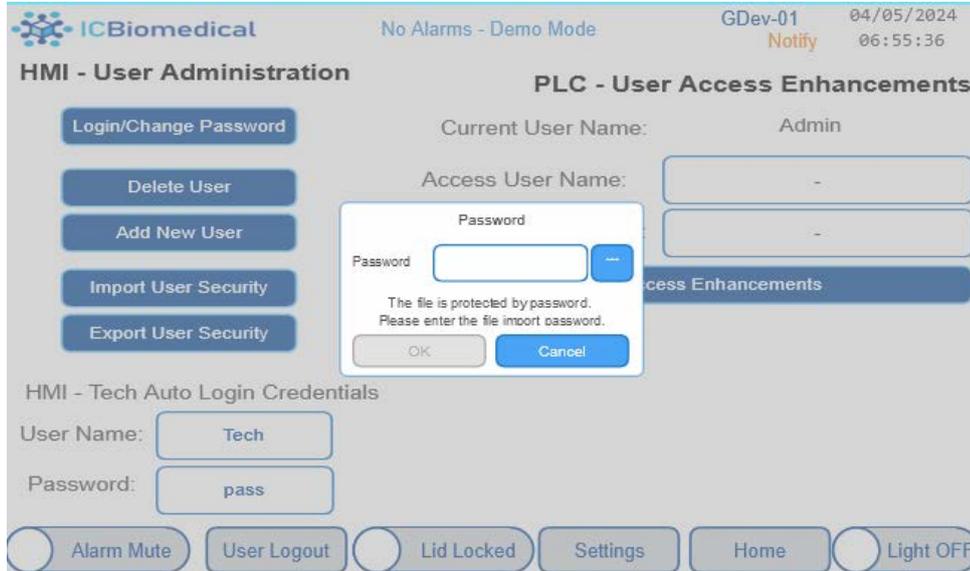
 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121

4.3 Import User Security

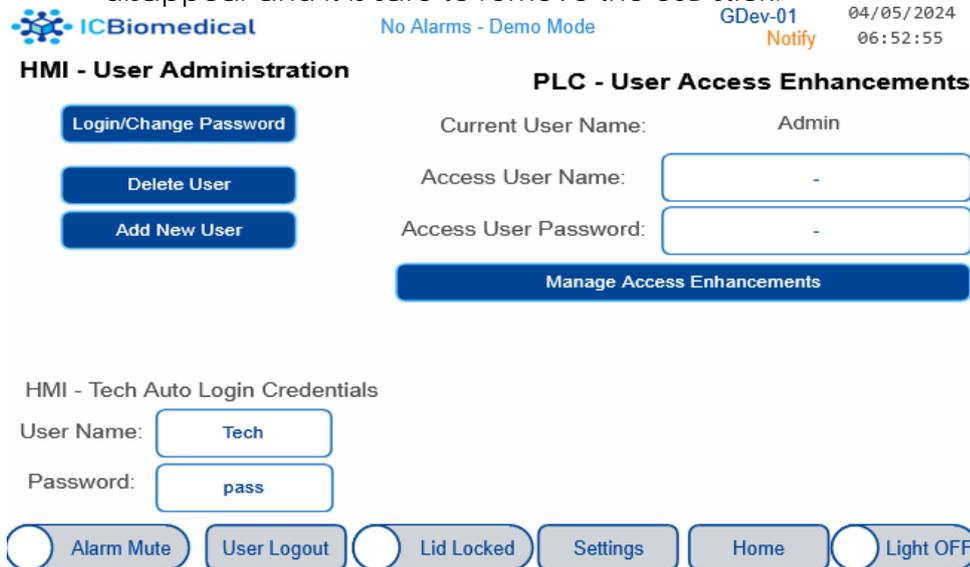
4.3.1 Press "Import User Security"

- Enter unique password from export step 2.4.1
- Press "OK"



4.4 Import Complete

4.4.1 When Import is complete, the Import/Export User Security buttons will disappear and it is safe to remove the USB stick.



End of Instruction

 1-855-750-8191

 www.icbiomedical.com

 1031 Cass White Road, NW
Cartersville, Georgia 30121