

# ENVIRONICS TECHNICAL BULLETIN #107

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## REINITIALIZATION OF SERIES 4000/4040 SYSTEMS

If you are getting no flow from the system but you can hear the instrument's solenoids turning on or if you have a failure to communicate with the unit, the instruments configuration data may be corrupted. This procedure will let you confirm that the calibration data is in error, and show you how to restore it. You must have software version 1.0.4 or later for this to work. If you have an earlier version, contact Environics for information on how to obtain the latest version.

### **IF USING WIN7 SOFTWARE, SEE PROCEDURE AT THE BOTTOM OF THE PAGE**

1. Be sure the instrument is connected to the PC and powered on.
2. From Windows, close all open applications, **including the Series 4000 operating software**
3. Select FILE - RUN, and enter C:\ENV4UI\ENV4CFG.EXE (If you do not have this file, contact Environics for the latest software)
4. In the **Serial Number** box, click the down arrow button, and select the serial number of the instrument.

#### INSTRUMENT DATA VERIFICATION

5. Click the **Read Instrument** button. Verify that the values shown in the **# MFC** and **#Solenoids** boxes matches the data displayed in the **Read Instrument Results**. Also, verify the MFC Sizes displayed is correct. If any of this information is incorrect, skip to the INSTRUMENT INITIALIZATION section.
6. Click the **Calibrate** button. In the **Controller Instrument** box, click the down arrow button, and select the serial number of the instrument.
7. In the **MFC** box, click the down arrow button, and select the desired Mass Flow Controller (start with MFC 1).
8. Click Show **Instrument** and verify that the Set Flow and True Flow values in the Instrument Calibration window match that in the Controller Calibration window. Click CLOSE to close the Instrument Calibration window. If any of this information is incorrect, click CLOSE to close the Controller Calibration window, and skip to the INSTRUMENT INITIALIZATION section.
9. Repeat steps 7 & 8, selecting the next MFC listed when the down arrow button is clicked.
10. If all information appears to be correct, the instrument configuration data is OK. Contact Environics for further assistance.

#### INSTRUMENT INITIALIZATION

11. Click the **Initialize Instrument** button, and then the **Read Instrument** button.
12. Click the **Calibrate** button. In the **Controller Instrument** box, click the down arrow button, and select the serial number of the instrument.
13. In the **MFC** box, click the down arrow button, and select the desired Mass Flow Controller (start with MFC 1).
14. Click **SAVE**. Click **Read Instrument** and verify that the Set Flow and True Flow values is the Instrument Calibration window matches that in the Controller Calibration window.
15. Click **CLOSE** in the Instrument Calibration window.
16. Repeat steps 13 - 15, selecting the next MFC listed when the down arrow button is clicked.
17. After all calibration data has been saved for all Flow Controllers, click CLOSE at the bottom of the **Controller Calibration** form.
18. Click **Read Instrument** and verify that all information is correct.
19. Click **EXIT**.

Start the Series 4000 software and try to operate the instrument. If you are still experiencing problems, contact Environics for more assistance.

#### **FOR WIN 7 SOFTWARE:**

1. Start the Environics Controller Software
2. Click INSTRUMENTS
3. Under "INSTRUMENT DATA", click READ INSTRUMENT
4. Verify instrument data is correct
5. If it is not correct, click INITIALIZE INSTRUMENT