

Flash Memory Upgrade for Syringe Pump Controller

Installation Instructions

Overview

The syringe pump controller memory can be erased and reprogrammed via the RS-232 port on the rear panel.

Finding Your Software Version

To check your controller's software version, press MENU (**MENU**), MORE (**A**), and STATUS (**2**). The software version is located in the upper right corner of the run screen.

Requirements

Software installation requires the following items:

- Pump and pump controller
- Computer with serial port
- RS-232 communication cable with DB25 (male) to DB9 (female) connectors (part #480-7996-00)
- Update file (obtained from Teledyne Isco)

Unzip the update files into the desired directory on your computer.

Setup

WARNING

Ensure that power is disconnected from the system, the pump is switched to OFF (0), and the controller to STANDBY until step 4.

1. Connect the pump cable to the 'Pump A' connector on the back of the controller.
2. Connect the 25-pin end of the serial cable to the RS-232 connector on the back of the controller, and the 9-pin end to the COM port on the computer.

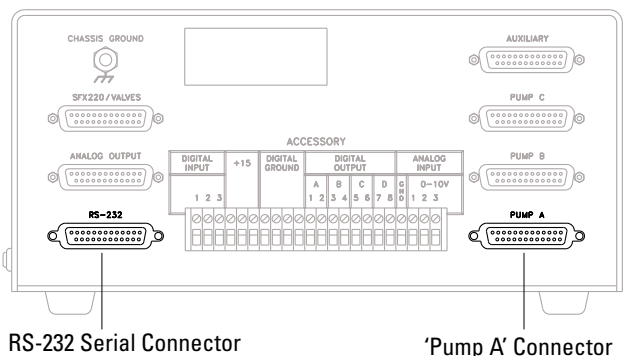


Figure 1: Controller rear panel connectors

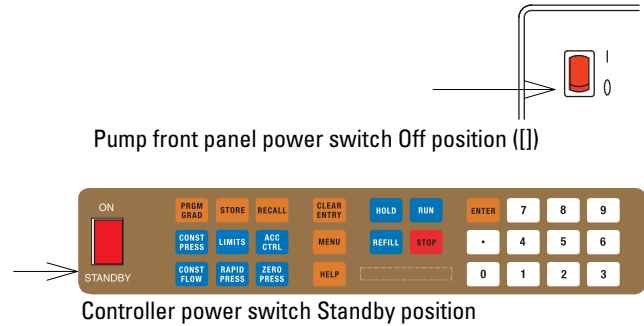


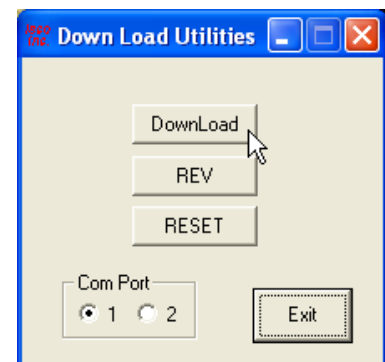
Figure 2: Preparing to flash Pump and controller

3. Reconnect the power cord to the pump module. Leaving the pump switch **off**, switch the controller **on**.
4. While holding down the HELP (**HELP**) key, turn the pump power switch to the **On (1)** position. After a count of three seconds, release the HELP key.

The display should go blank at this point. If it does not, remove power and repeat the previous steps.

Installation

1. In the folder where you saved the downloaded files, click the **download.exe** file to open the Download Utilities window.
 2. Click the Download button.
- This action will cause the program files to be overwritten.






3. Observe the “Download Utilities” window.
The utility should display the download progress, followed by a notification of completion:




4. When the download is complete, click OK and exit the utility. Perform a reset (described in the following section) and zero the pressure.

Controller Reset

Complete the update by resetting the controller:

1. Switch the pump **Off**.
2. Switch the controller to **Standby**.
3. Switch the pump **On**.
4. While holding down the CLEAR ENTRY () key, switch the controller back **On**.
5. After three seconds, release the CLEAR ENTRY key and switch the controller back to **Standby**.
6. Switch the controller back **On**; after it initializes, press MENU.
7. Press SYSTEM RESET ().
8. Press CONTINUE ().

After resetting the controller, zero the pressure () for all connected pumps.

Note

The status screen (MENU > MORE > STATUS) should now display the new software version in the upper right corner. If it does not, remove power, ensure proper connection of all cables, and repeat the update procedure.

If you encounter any problems, please contact Teledyne Isco's Technical Service department. Contact information is listed at the bottom of this page.

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Teledyne Isco

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
Toll-free: (800) 775-2965 • Phone: (402) 464-0231 • Fax: (402) 465-3001
E-mail: IscoService@teledyne.com

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