VARIAN

# *SERVICE How To*

| Model Number: | Originator: | Topic |
|---|---|---|
| **900 Series LC** | **Des Wichems** | **Reloading the Fraction Collector Calibration Coefficients** |

## Reloading the Fraction Collector Calibration Coefficients

1. Unplug the serial cable from connection P4 on the back of the 900-Series System and connect it directly to the serial port of the PC with the Fraction Collector Diagnostic Program (Varian SPS MDS).


**Figure 1: Back panel of the 900 Series**

2. Once the serial cable is connected to the PC, power up the fraction Collector and allow it to go through it's start up routine. Launch the Varian SPS MDS software, and you should see the screen in Figure 2.

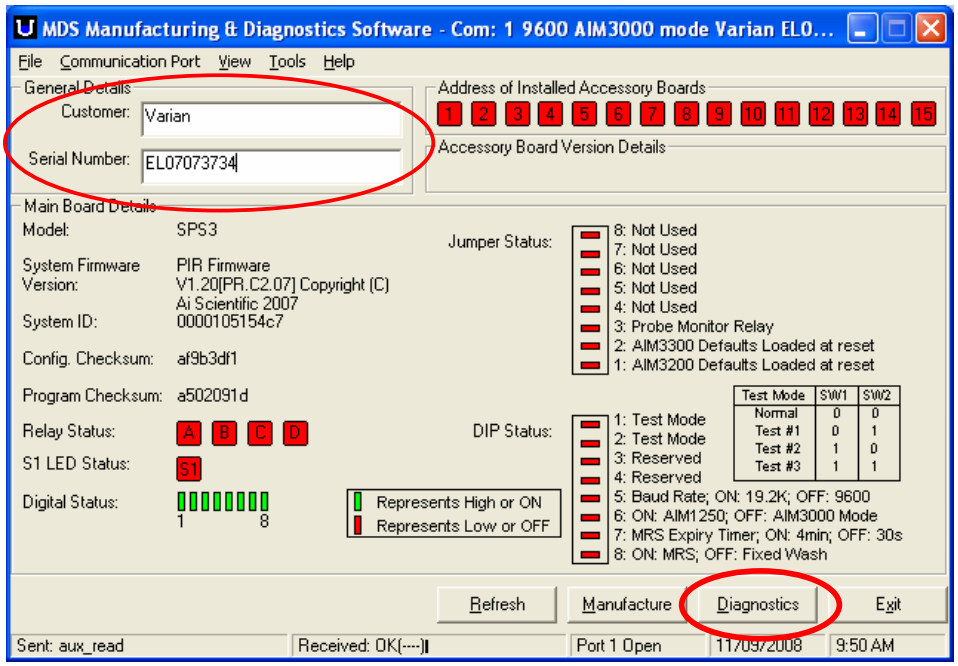


**Figure 2: Varian SPS MDS Software Front Page**

3. Insert the customer Details and Serial number of the unit. Then click the *Diagnostics* Button (Figure 2). You should now see the screen in Figure 3.

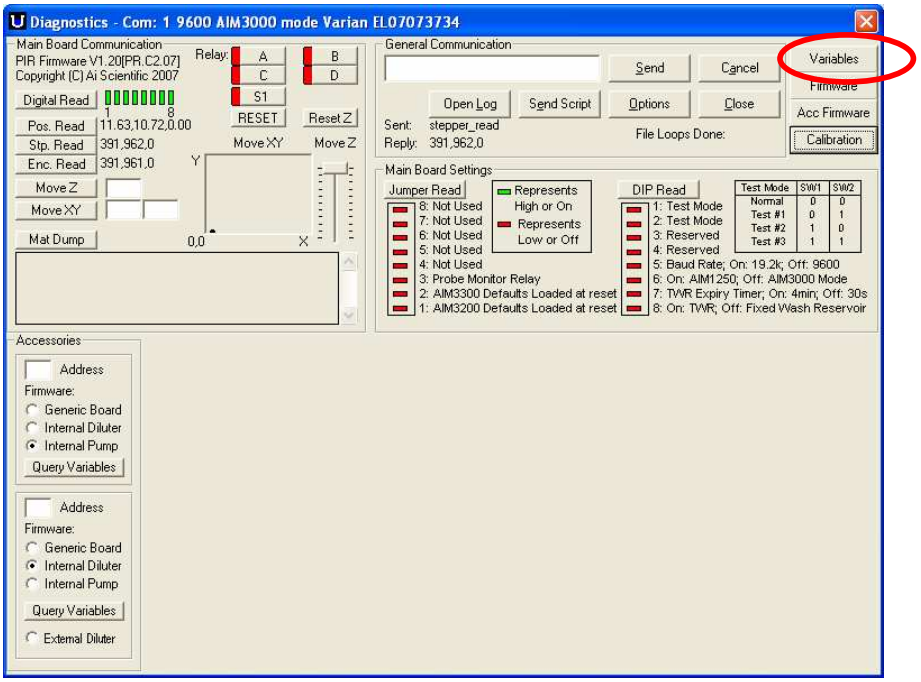


**Figure 3: Diagnostics Section of the SPS Software**

4. Select the *Variables* option (Figure 3) and that should open the Calibration Variables Page.

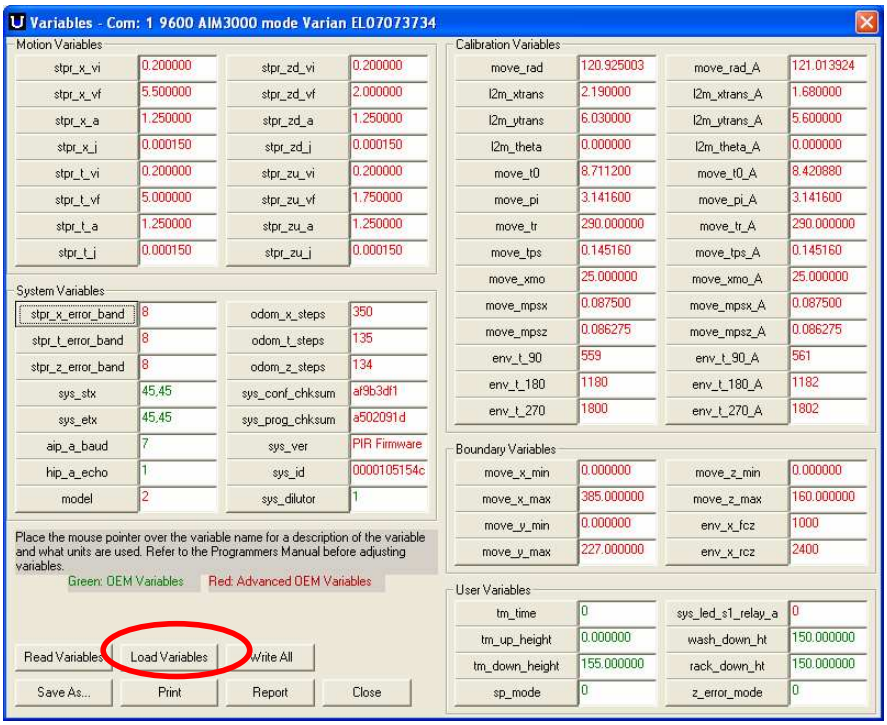


**Figure 4: Variables Page**

5. Click the *Load Variables* button (Figure 4), and then select the txt file that has the calibration coefficients that you want to load up (Figure 5). It is a good idea to make the variables file name one that reflects the serial number of the Fraction Collector. If you have multiple files, then add a date stamp to your file name to ensure that you can distinguish them from each other.

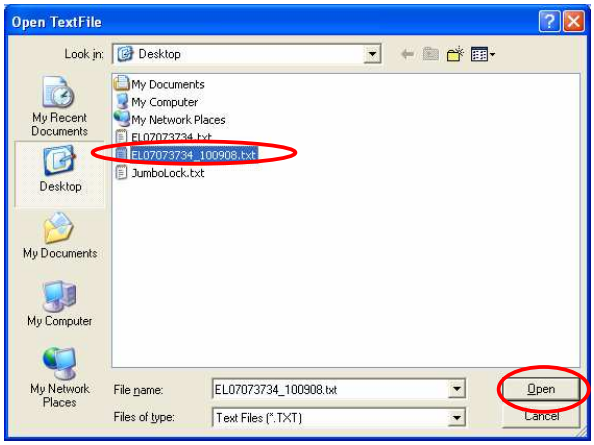


**Figure 5: Calibration File Selection**

6. Once you have selected the desired file to upload and pressed the *Open* (Figure 5). You will then need to select the *Write All* (Figure 6) option to write the variable to the firmware. You can then *close* the Variables page.

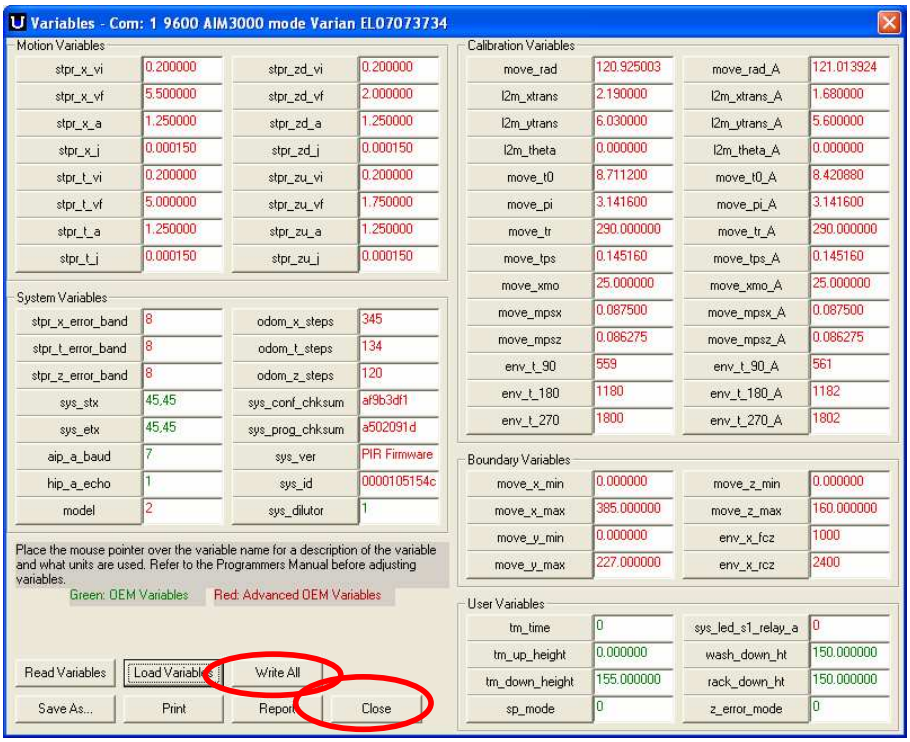


**Figure 6: Writing the Calibration to the Firmware**

7. Press the *Close* button again (Figure 7) and you will be back to the main page of the software (Figure 8).

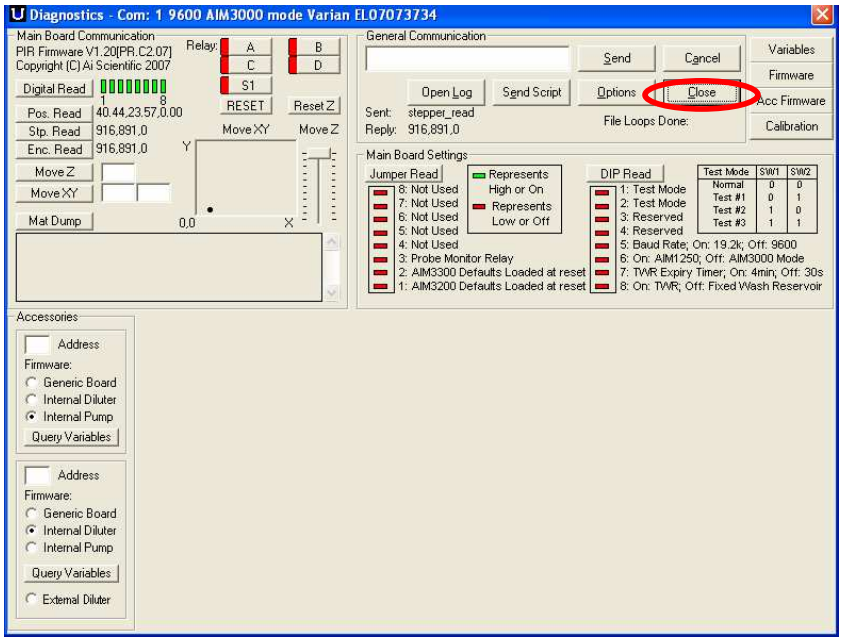


**Figure 7: Closing the Diagnostics Page**

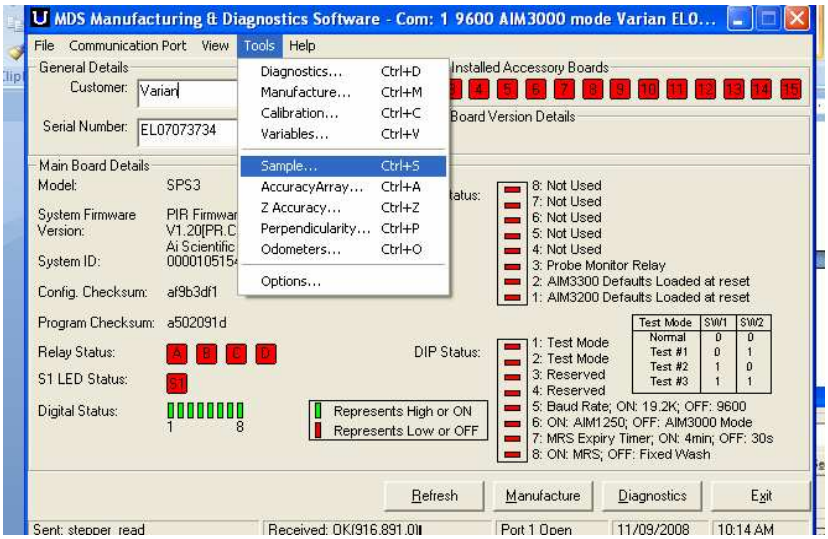


**Figure 8: Main Page of the software**

8. Select the *Tools* option from the pull down menu and click on *Sample* (Figure 8). This will open the window in Figure 9 where you can choose which racks the Fraction Collector has and the rack size.

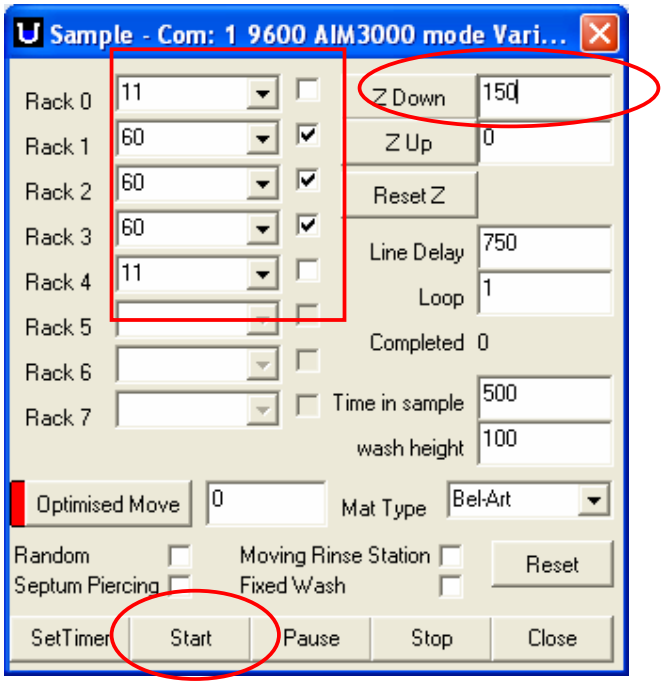


**Figure 9: Fraction Collector Rack Configuration**

9. The different rack positions are shown in Figure 10

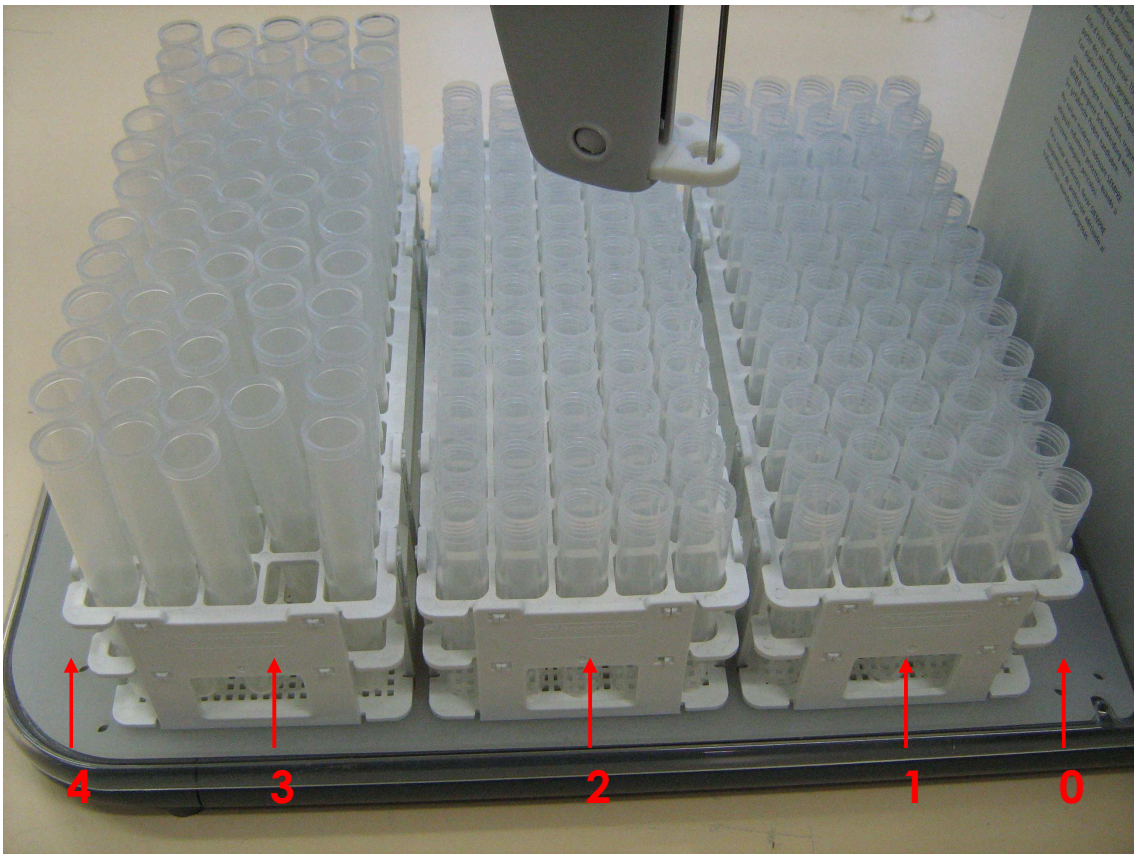


**Figure 10: Rack Positions on the Fraction Collector**

10. Select a Z down (Figure 9) value so that you can easily see if the probe is going into the sample collection tube properly. I usually pick a value of about 150. Once you are happy with the setup, click on the Start button and the probe will move through all the positions for the number of racks you have selected.