

The data acquisition software (provided by the manufacture of the data acquisition system) used in the experiments had a bug that provided wrong time registers. Because of this error, all times registers were half of the right values. Therefore, we had to correct all time results of the paper - all time results had to be multiplied by 2. However, the conclusions are still acceptable. We found out this error when we used other data acquisition system and sensor - laser sensor - in order to test a new type of valve.

The bug of the software is explained bellow by the manufacture of the data acquisition system.

Dear Prof. Gasche,

The newer DMS Control versions do not have this "Average=1 Delta T" bug. The installer is much bigger (~200M) but it should fix the issues you have with version 1.5. Installing the new version will not remove or corrupt the older DMS Control application -- multiple versions can be installed at the same time if needed.

Here is a direct link to the current DMS Control version 1.807:

http://philtec.com/downloadssupport/software/DMS_Control_1_807.zip

The older data files can still be used but the "Time Stamp" column must be used instead of the "Delta T" to determine samples per second.

I recommend using Average=2 for future data files even with the new DMS Control. The speed will be equal but Average=2 provides lower noise. The "Average=1" setting is only useful for USB type sensors due to their faster connection speed compared to RS-232.

Best regards,
Chris