

**From:** [Dave Stahlke](#)  
**To:** [Desiderio, Russell A](#)  
**Subject:** SBE26plus pressure coefficients Re: cal file values not matching firmware values [ref:\_00D7096pT.\_5004u2Pm9MC:ref ]  
**Date:** Monday, March 15, 2021 10:07:56 PM  
**Attachments:** [26plus\\_1328\\_1382\\_cal\\_coeff\\_correction.zip](#)

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Hi Russ,

I was able to confirm from the service tech that the firmware pressure coefficient values that are programmed into the units are the correct numbers. I also found out that:

a) the vast majority of the 26plus instruments have digi-quartz pressure sensors in them and those coefficients do not change.

b) the \*.cal files are automatically created from a program that creates calibration certificates, too.

Given "a", it is easy to know if the pressure coefficients are incorrect. I spot checked the different calibration folders for the different service years and confirmed that the original build pressure cal coefficients are the same throughout all the calibrations. The only thing that has changed with the pressure calibrations are the dates.

So...

Unit 1328 needs a corrected pressure "T2" coefficient in its 1328.cal file.

Unit 1382 needs corrected pressure "C1" thru "C3", "D1", "D2", and "T1" thru "T4" coefficients in its 1382.cal file. Also, the pressure calibration date on this unit needs to be updated. This does not have to be entered for the instrument to work correctly. However, if you want to change this for records, at the S> prompt, type "PCALDATE=16-SEP-20" and press <Enter>.

We do not know how the error occurred, yet, but I will let you know what is found. I have attached the files associated with my investigation, including the corrected \*.cal files.

Cheers,  
Dave

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