DataMite II Calibration Sheet for Custom Sensor, cont

"Correction" (bottom entry in menu) is for fine tuning the calibration for a particular situation, like a shock travel sensor once it is installed in the vehicle. Correction is a number you want ***ADDED*** to the final reading. For example, if a thermocouple is reading too low by 5 degrees, you can enter 5 for the correction to increase this number by 5. If an accelerometer is reading too high by 0.05 Gs, you can enter -.05 to reduce this number by .05.

The Correction is very useful for shock or steering travel sensor, where we give you the calibration, say for a 6" travel sensor, with the first 4 readings in the menu to the right. But then, you want to "zero out" the sensor to read 0 at vehicle ride height for the shocks and with steering wheel pointed straight ahead for a steering sensor. This is done following the procedure below:

This is only available in the Pro version of the software and must be turned on. Do this by clicking on Preferences at top of main screen, then Calculations tab, then set All Correction to Calibration of Selected Recorded Channels to Yes. Then click on OK to save this change.

You will first enter the first 4 entries as shown to the right. Then once the sensor is installed, with the vehicle at ride height, you can either:

1. Read what the sensors are showing in the "Current Readings" screen in the DataMite software. If a reading is showing 2.64 but you want it to read 0, then enter -2.64 as the Correction.
2. Or, click on the "Read" button to have the software figure it automatically. After you click on Read, the program will ask what the reading should have been at that time.

The software will now read "0" for that shock at ride height.

Note that if you already had a Correction of 5 entered, and you want that channel to read 3 higher than it was reading, you must add that amount to the current Correction, 5 + 3 = 8. Remember to use a ***negative*** number for readings you want to ***reduce*** by a certain amount.

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A new feature in "non-dyno" versions lets you rezero several channels at once. Look for Rezero at the top of the DataMite Specs screen and choose you option as shown to the right.