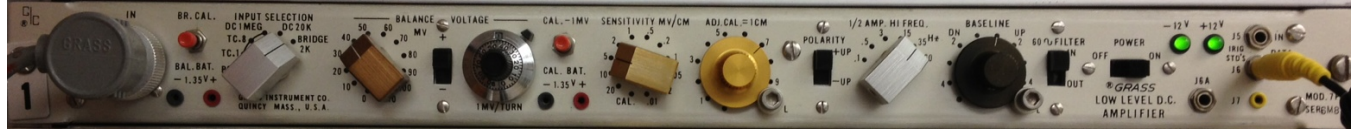


Force transducer calibration with computer recording.v2

Principle:

Before we could use the force transducer and the computer recording system, we need to calibrate the system to set the baseline and calibrate the system.



Procedures:

1. Turn on the power supply to the amplifiers and **turn on the power for the channel** for at least 30 min (recommend to leave it on without turning it off after use)
2. Prepare the force transducer with basic connecting devices (hook and string) **without weight**.
3. Set Input Section to **Bridge 2K** and **1/2 AMP to 35 Hz**.
4. Set "polarity switch" in **+ position**.
5. Set "**Adj cal dial**" to **around 8**.
6. Set the computer detection **scale between 6 and -1**.
7. Set "**Sensitivity MV/CM**" dial to **20**.
8. Use baseline dial to **adjust baseline to close to 0**.
9. Turn "Sensitivity MV/CM" to 10 and turn "Voltage" (1 MV/Turn) to bring the baseline to 0.
10. Turn "Sensitivity MV/CM" to 5 and turn "Voltage" (1 MV/Turn) to bring the baseline to 0.
11. Turn "Sensitivity MV/CM" to 2 and turn "Voltage" (1 MV/Turn) to bring the baseline to 0.
12. Turn "Sensitivity MV/CM" to 1 and turn "Voltage" (1 MV/Turn) to bring the baseline to 0.
13. Repeat step 1-12 a few times until you get 0 for each of the sensitivities.
14. Set "**Sensitivity MV/CM**" dial to **20** and add 50 g weight standard and adjust Adj. Cal such that the reading is 2.5.
15. Double-check the readings for no weight and weight of 50 g.
16. With this calibration, when setting "**Sensitivity MV/CM**" dial to **10** the measure force will be the voltage reading x 10.