CI-6537 and CI-6746 Force Sensor Accuracy

The accuracy of the force sensor is determined mostly by the effect of the noise level on the tare. For the four runs using a CI-6537 below, the sensor was tared and then used to immediately weigh a 9.905 ± 0.005 N static weight.

The variation in these answers is ± 0.025 N or 0.25 %. In general a 1% accuracy can be achieved without calibration.

Greater accuracy over can be achieved by using oversampling and calibration; however, the user must tare within seconds before each measurement to achieve that accuracy due to possible drift.

