**Technical notes and descriptions -- ER200D Etymotic, data logging dosimeter**

* A “full run” represents, 168 hours (7 days, 24 hours)
* In each hour, 16 data samples are logged, yielding a total of 2688 possible sample points
* The dosimeter does not have an internal calendar, and so the start time must be logged.
* Data logs are extracted as a text file from the dosimeter a piece of software developed by Etymotic (ER-200D Utility Suite v4.04). Software must be installed on a computer, and the dosimeter is connected to the computer via USB. After the data are extracted, the dosimeter is cleared of data.
* For each 3.75 data point that is saved, the dosimeter measures the sound level every 220 ms, and the 3.75 is the average of 17 measurements. If an individual measurement is below the dosimeter threshold (75 for original MusiConn data, 70 for later studies), it is treated as a zero in the calculation of the 3.75 minute average. If all 17 measurements are below the threshold, a value of 0 is logged to the datafile.