# --- GINA ANALYSER MANUAL ---

Protocol to ensure proper GINA\_ANALYSER functionality:

1. Before recording any data from the GINA, ensure the following is installed on your computer: [TDM Excel Add-In for Microsoft Excel Download](http://www.ni.com/example/27944/en/) . This will allow GINAs output TDMS files to be converted to xlsx files, which is required for this program to function.
2. Follow this checklist before commencing recording from the GINA:
   1. GINA must calibrated to current atmospheric conditions (see GINA manual).
   2. GINA should run for 10 minutes to warm up.
   3. Ensure warning lights on GINA interface are not flashing.
   4. Under Log tab, change File Name to desired. Press ‘Store Set.’ and save this settings file with the same name as the File Name. Select Continuous Mode (Cont. M).
   5. In the case that you intend to calculate breaths using Work of Breathing, (or if you are using version 1), ensure that channel X is set as Work Of Breathing.
3. Commence recording. When recording is stopped, press ‘Beenden’ on the window that pops up.
4. Open the GINA output tdms file using the *TDM Excel converter* and *save as*. Ensure that the GINA xlsx file is saved into the GA\_TestData folder.
5. Open GINA\_ANALYSER application.
6. Use *Browse* buttons to select files.
7. Under the ‘Output options for Breath by Breath data’ menu, you can choose to create a new breath by breath (bbb) log file, or add to an existing one. Ensure that at least one box is checked.
8. Select the method of breath calculation. Note: in version 1, only ‘Work of Breathing (chX)’ can be selected.
9. Click *GO.* Data will be stored in GA\_OutputData folder.