

Data analysis service of Aerekaprobe data.

The data collected with Daemeter can be exported using the “Export Data” described in paragraph 4.2.7 of the Aerekaprobe manual. This export is either in CSV format or in proprietary Aethena format. The CSV format can be used for analysis purposes with a program of choice.

The data can also be analyzed by the eNose company. This data analysis includes a report in electronic form with the analysis results for both a linear and a non-linear binary classification algorithm and the compressed vectors used to obtain these results. These vectors can be used to verify the results and try other classification methods within your software of choice. The classifier results will be included in the report for custom presentation purposes. If applicable, an ROC curve will be included in the report.

To be able to analyze a dataset the following requirements should be met:

- Data is accepted in the proprietary Aethena format only
- All measurements in the data set should belong to one binary classification set
- The measurements should be labeled reflecting the ‘Absence’ or ‘Presence’ of the binary condition being tested for. Optionally a value of “Unknown” can be used to create blind test cases. The predicted classes for these blind cases will be reported using the models developed with the known cases.
- The amount of measurements in the dataset should not exceed 1000
- A minimum number of ‘Known’ measurements is hard to give and depends on the type of problem. A rule of thumb is a minimum of 40 measurements (20 Absents and 20 Presents) for a model. Unknowns are extra to this minimum. When in doubt, contact the eNose company for advice.

The ratio of Present/Absent in the Unknown part of the data should be roughly equal to the ration of the Known (Absence and Presence) data. The typical time between receiving the data and sending the report is 20 business days unless otherwise agreed upon.