



METER

LABROS SOILVIEW-ANALYSIS SOFTWARE FOR VARIOS REFERENCE GUIDE

SOFTWARE OVERVIEW

The software leads the user through the VARIOS evaluation process using the tabs shown in the [Figure 1](#) below and defined in [Table 1](#) below:

Table 1 LABROS SoilView-Analysis Software Tabs

Name	Description
Information	View and specify measurement parameters.
Measurements	View and edit the measured data.
Evaluation	Calculate weight and thermal conductivity data; Add externally measured data (only available in VARIOS dryout measurement).
Fitting	Apply thermal conductivity model to measured data (only available in VARIOS dryout measurement).
Export	Export data, graphs, functions, and parameters.

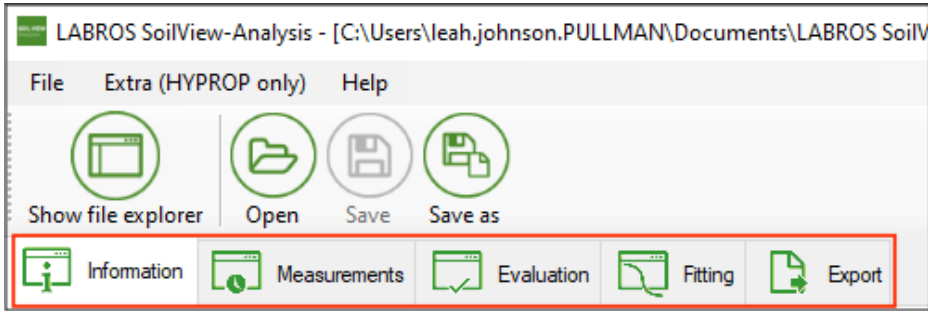


Figure 1 LABROS SoilView-Analysis Software, Tabs

EVALUATION PROCESS—DRYOUT SETUP

The following paragraphs describe the functions of the LABROS SoilView-Analysis software tabs shown above in more detail.

INFORMATION TAB

The Information tab shows General information on the VARIOS measurement, including sensor and balance information, geometric and device parameters, and the measurement profile used.

The following information must be entered for evaluation:

- Empty soil sample ring weight [g]
- Sample ring lid weight [g]
- Silicone retaining rings weight [g]
- Type of soil sample ring (standard 250 ml ring or custom ring)

NOTE: If a custom soil sample ring is used, select 'custom' from the Type of soil sample ring dropdown menu under Geometric Parameters in the Information tab. Enter the 'Power User Mode' to enter the corresponding Soil surface area [cm²] and Soil column height [cm] values.

Contact [Customer Support](#) for more information about using the Power User Mode.

MEASUREMENTS TAB

The Measurements tab shows individual data points, as well as graphs of the VARIOS measurement.

- Conductivity data points are shown as a graph in the top left of the screen.
- Weight data points are shown as a graph on the bottom left of the screen.
- Single data points can be deleted by right-clicking in the data table on the top right of the screen.
(only available in Power User Mode)
- Heating curve for a specific data point can be viewed by right-clicking in the data table.
(only available in Power User Mode)
- Temperature graph is shown by right-clicking on the graph.

EVALUATION TAB

The Evaluation tab displays the relationship between thermal conductivity and water content. Additional data points can be entered.

- Enter measurement sample dry soil weight to calculate the water content. METER recommends using Option 1 **From dry soil weight [g]** as the most accurate method to calculate water content.
- Additional conductivity data points may be added.

FITTING TAB

The Fitting tab allows the measured data to be fit to a thermal conductivity model that the user can select. This tab also shows the statistical analysis of the fit to the model.

Fit the curve using a suggested fitting model, and click on the **Curve Fitting** button.

Contact [Customer Support](#) for detailed information about the fitting models and the respective parameters.

EXPORT TAB

- Export all data, information and graphs into a Microsoft® Excel® spreadsheet.
- Export raw data, if desired.

CUSTOMER SUPPORT

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Customer service representatives are available for questions, problems, or feedback Monday through Friday, 7:00 am to 5:00 pm Pacific time.

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