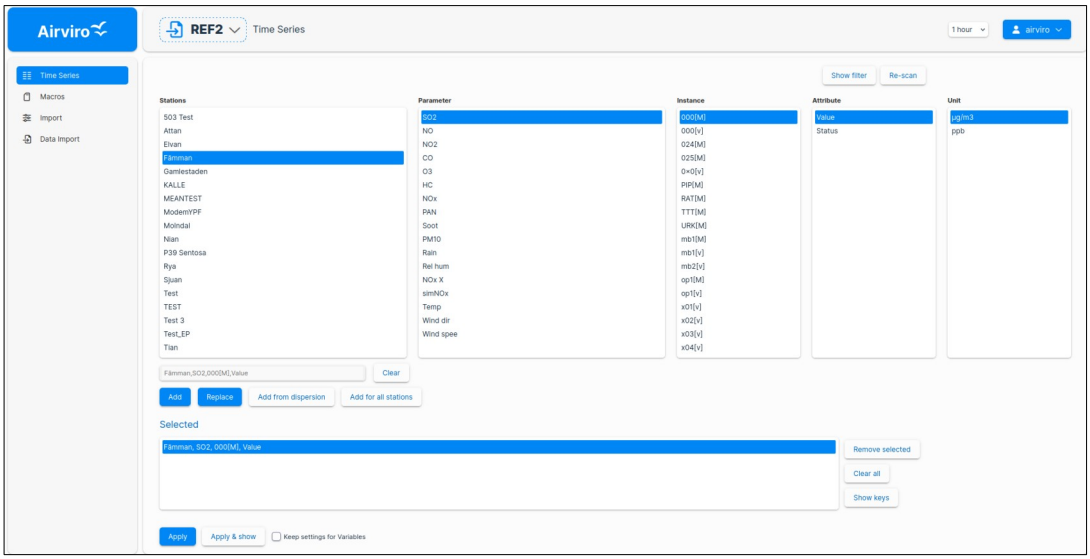
Apertum

Airviro User’s Reference



Working with Indico Import Module

How to import data from times series?

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How to import time series data?

Amendments

Version	Date changed	Cause of change	Signature
3.22	April 2013	New module	GS
3.23	May 2013	Upgrade	GS
3.23	Aprl 2015	Revision	GS
4.00	June 2015	Upgrade	GS
4.01	Aug 2018	Review	GS
5.00	Oct 2020	Upgrade	GS
6.00	April 2024	Upgrade	GS
6.00	July 2024	Review	DC
6.00	Oct 2025	Review	GS
6.00	Dec 2025	Review	DC

CONTENT

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10.1 Introduction

Indico Import is a powerful tool for importing data into the time series database. Data input is made for a selected period of time and a specific time series. The data input format must be MS Excel ® XLS.

10.1.1 Functionality

This Airviro module runs on any PC or any other device running Edge, Firefox, Google Chrome or any other Mozilla based browsers. Once Airviro has been properly installed on the *server*, you can start using it by typing the correct URL in your web browser over the Intranet/Internet.

After logging into Airviro typing your user-ID and password, a domain must first be selected, from the icon showing the map or enabling the List Mode, and pressing on the Domain name that is displayed. In this case **Indico Import** should be chosen from the available modules.

On the top menu click on the blue button [username_down arrow], to access the **[Logout]** button. By clicking on the Logout button, the current module is closed and the Airviro login page is displayed instead.

10.1.2 Main window

The main menu has the following options available:

Time Series: Provides an interface to the Time Series Database, where you can select time series (the stations, parameters, and instances).

Macros: Provides an interface to the Time Series Database, where you can select time series via pre defined macros. The macros are made in Indico Presentation.

Import: Allows you to specify the data to be imported into the selected time series.

Data Import: it allows you to import a file with time series data to a selected station.

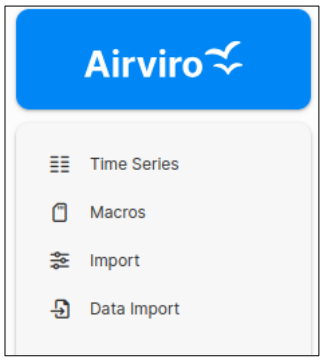

Figure 10.1. Menu.

10.2 Time Series

In **Time Series**, a list with all stations (both active or inactive) and all parameters are displayed. By clicking on a station, a list of parameters measured by that station is displayed. Clicking **[Re-scan]** will update the lists from the time series database to include any new time series that have been added since the session started. Checking/unchecking **Show only time series in the selected period** for the next 24 hours.

It is possible to **sort** stations and parameters in the lists, either alphabetically, by station key or by parameter key using the drop-down list box on top of them.

Checking/unchecking **Reverse** re-arrange the options in the list (Stations or Parameter), accordingly. It is also possible to promote active stations to the top of the list by checking **Active first**. Sorting stations also by reverse death time creates a list of increasingly older stations. Operational stations are shown preceded by an asterisk (*), these stations collect data automatically (*Figure 10.2.)*

Once you have selected both station and parameter, the other lists: Instance, Attribute and Unit are automatically filled in with the corresponding data. The instance is used to differentiate among multiple measurements of the same parameter at the same site.

There are three different types of instances. The type is specified by a letter between brackets following the instance. Type [v] means a raw value that can be scaled in the validation process. Normally time series values of this type are read only and cannot be changed. Type [M] means data that are editable. These can come from raw data (scaled or

copied from raw data) or loaded directly into the time series database. Type [O] indicates an editable value with an additional standard deviation from the integration period as well as a light intensity. All types also have a status flag assigned by the quality control in Indico Administration. (*Figure 10.2.*)

Clicking **[Clear]** removes the current selections and fills the lists with all stations and parameters. On the other hand, To display all the stations that measure a certain parameter, select first a parameter, in the parameter list, and all the stations that measure that parameter will be displayed. (Figure 10.2.)

Once you have selected a station, parameter, instance and attribute, the time series is uniquely defined (for the current time resolution). Click **[Add]** to select the time series for further processing. Please remember that the variables are numbered according to the order in which they are listed in the “Selected” list box. **[Remove Selected]** button deletes a highlighted time series from the “Selected” list box. **[Replace]** button replaces a highlighted time series in the “Selected” list box with another time series. **[Clear All]** button deletes all the time series from the “Selected” list box. **[Show keys]** button displays the station keys for your “Selected” time series. Multiple keys are backslash separated.

Click **[Apply]** to save your settings. (*Figure 10.2.*)

For further information about this interface, please consult the User reference manual v6 for Indico Presentation.

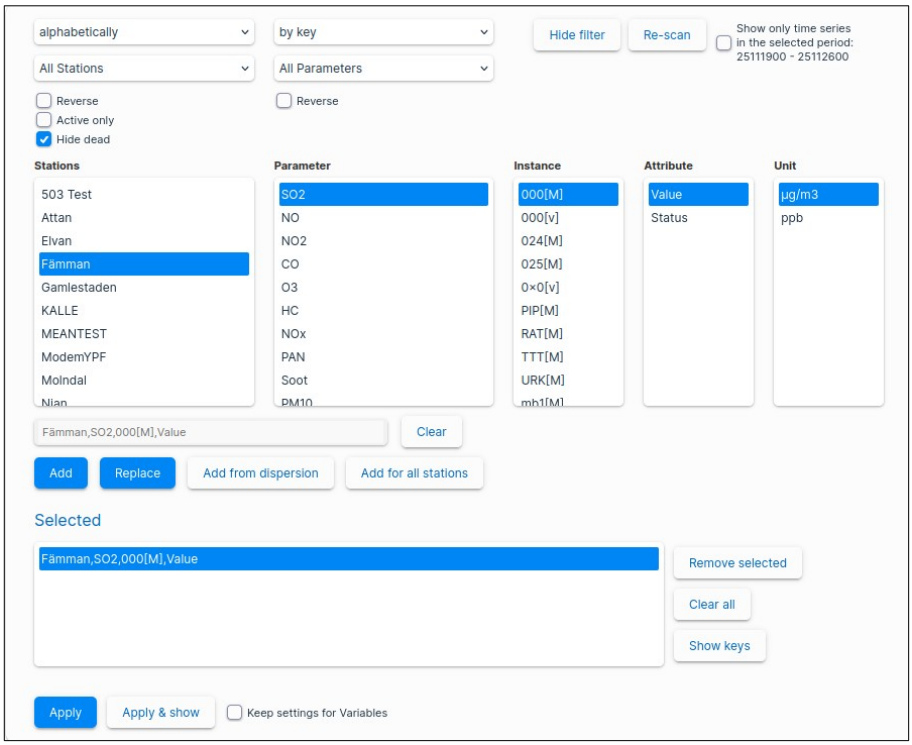

Figure 10.2. Time Series Windows.

10.3 Macro

Under **Macros,** the macros previously created using the Indico Presentation module, can be selected. *Figure 10.3.*

In Indico Presentation, the settings for a graph can be saved as a macro file. Macros are stored in folders, each user has his own folder, a common folder and some other folders can also be created.

To load a macro:

- Select a folder.
- Select a macro from the right list.
- Time period selection can be disregarded as it will be set in the Import menu.

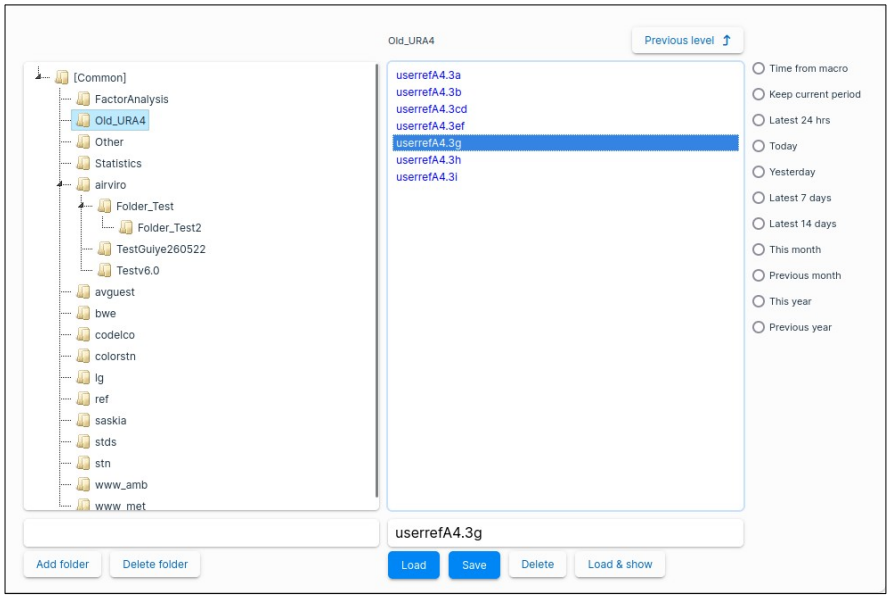

Figure 10.3. Macros.

10.4 Import

With this option, values can be imported into the Time Series Database (TSDB). Select the number of hours to be imported, it can be a number from 1 to 40.

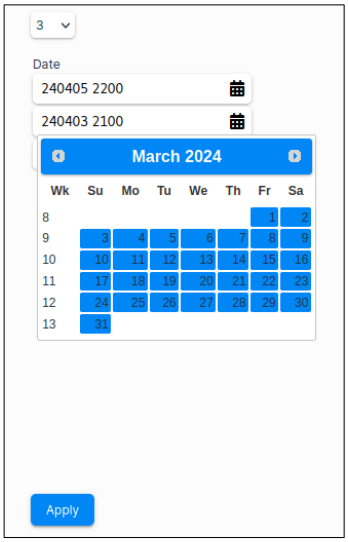

Figure 10.4. Date &Time.

Click on the Calendar icon, (*Figure 10.4*) to select the date and time for the data to import.

Then type the values inside the text boxes, corresponding to the chosen station and parameters. (*Figure 10.5*)

Press the **[Apply]** button, to import the values into the Time Series Database.

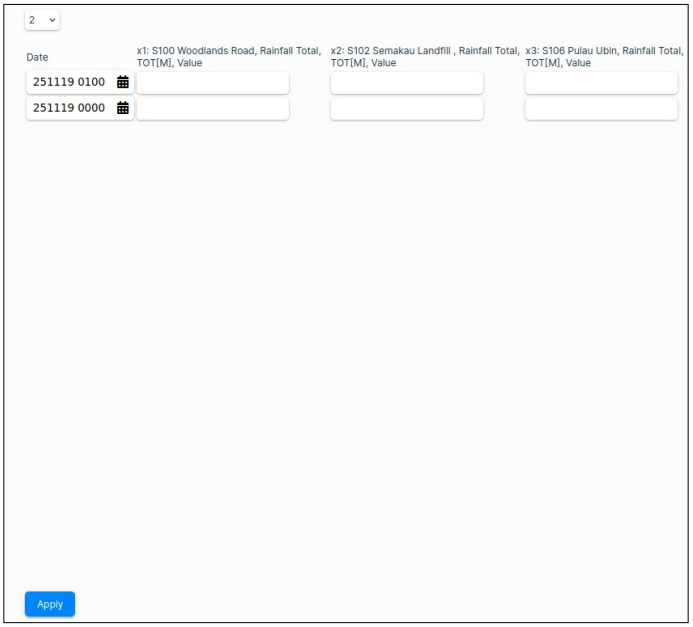

Figure 10.5. Data Import.

10.5 Data Import

With this option, values can be imported into the Time Series Database (TSDB). Select the station and then drop a file or click on Select a file (*.txt , csv)* and click on **[Upload]**.

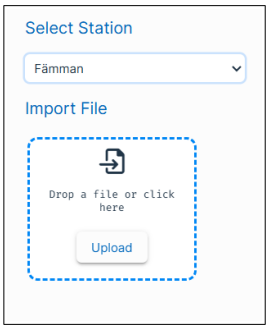

Figure 10.6. Import file.

After uploading the file, must specify the file format for each field and the columns where the different data is located. For example, Column separator: [,] Comma and Date format: yymmdd. (*See Figure 10.7 Data import).* Then, press the **[Apply]** button to file import.

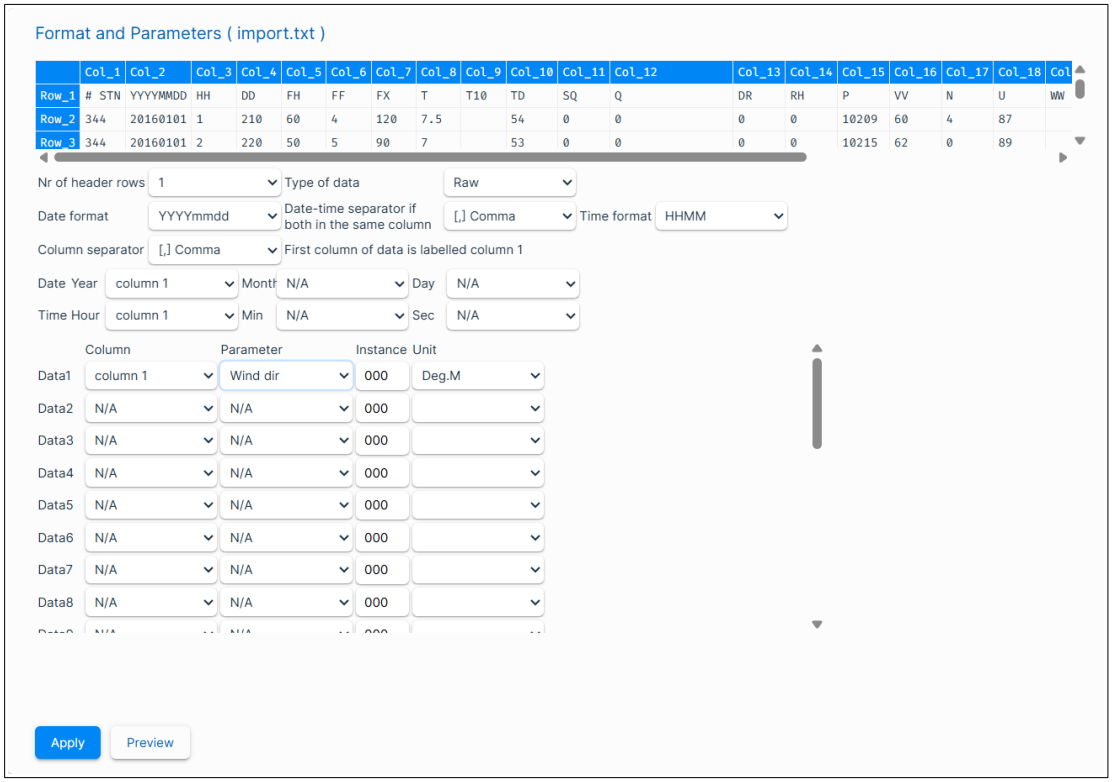

Figure 10. 7. Data Import.