

Quick start guide

Power BI template for analysing process data

SER0027 - Basic analysis of the process data export from acirro+



1 Function and area of use

This document explains the process for how to easily view the process data exported from acirro+ using Power BI.

2 About this document

This quick start document should not be considered as a complete manual. It is an aid to be able to start analysing process data from exported csv files from acirro+.

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Use the following hardware, software, drivers and utilities in order to obtain a stable application:

In this document we have used the following software

- Power BI Desktop
- acirro+, <https://acirroplus.com>

For further information refer to

- [acirro+ Getting Started PIEN353](#) (available at HelpOnline)
- [Beijer Electronics knowledge database, HelpOnline](#)

This document and other quick start documents can be obtained from our homepage. Please use the address support.europe@beijerelectronics.com for feedback.

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4 Power BI Template for analysing process data from acirro+

The following chapter describes important procedures and settings needed for a well functioning process.

4.1 Installation of Power BI Desktop

Go to <https://powerbi.microsoft.com/desktop/> and download the proper version of Power BI Desktop application that suits your language preferences. The instructions below are referring the English version of the application.

After download, open up the installation file and follow the instructions for installing Power BI Desktop.

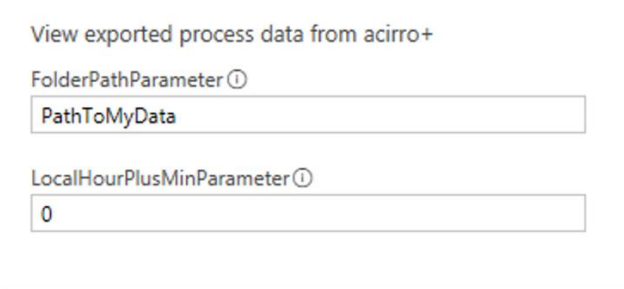
4.2 Export process data files from acirro+

Make sure to have a device set up properly in acirro+ to collect process data for it before going through this chapter.

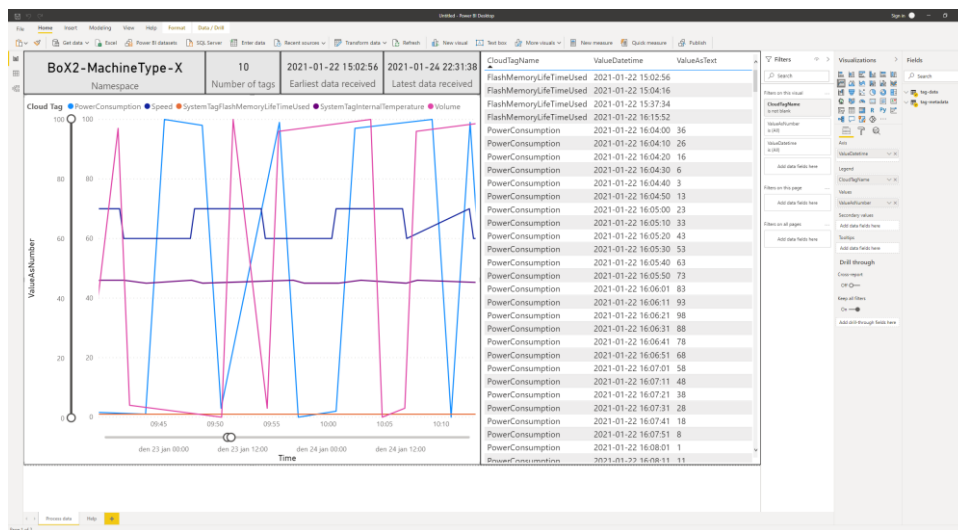
1. Select the **Devices** tab from the top menu, find the device you want to export data for in the list, and click **Export process data** in the context menu.
2. Select for which time period that data should be fetched, either by typing in start and end date, or by selecting in the calendar.
3. Press the Export button. A new row containing information about the export appears in the Download Files list. When the export is ready for download it will get status Ready and a download icon will be enabled.
4. Press Download to download the zip file. The filename will contain the name of the device. Special characters in the filename will be replaced with underscore and if the filename is too long it will be shortened.
5. Unzip the file to a folder. It will contain one process data file in csv format per day and one metadata file with information about namespace names and cloud tag names.
6. The raw process data is now available in the csv files and can be imported Power BI.

4.3 Import process data files in Power BI

1. Double-click on the template file for acirro+ import process data (*.pbit) to open it up in Power BI.
2. Type in the absolute path to the folder where the unzipped files are located. Ensure that the length of the absolute path is shorter than 248 characters, otherwise the import will fail.
3. If time should be expressed in local time instead of UTC, type in how many hours before or after UTC time that is wanted.



4. Press *Load*. If there is a lot of data it might take some time to import.
5. In the Process data tab, the line chart should now visualize the historical process data, and there should be a table on the side to view the data in table format.



Example of what it can look like in Power BI after import of process data files from acirro+

The report created in Power BI can be reused if more data files are downloaded and put in the same folder as the other csv files. The metadata file can be replaced since it contains information about all cloud tags within the organization.

Please note that this template is prepared for numeric values and the chart is drawing lines between the value points, which might not reflect the real-world values correctly. Any such setting can be changed within Power BI to fulfill your needs. The document can then be saved as a report for the specific data in the folder selected, or as new template with your changes by selecting *Power BI template files* as type when saving.

5 About Beijer Electronics

Beijer Electronics is a multinational, cross-industry innovator that connects people and technologies to optimize processes for business-critical applications. Our offer includes operator communication, automation solutions, digitalization, display solutions and support. As experts in user-friendly software, hardware

and services for the Industrial Internet of Things, we empower you to meet your challenges through leading-edge solutions.

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