

ArtemiS SUITE
Signal Processing

Code 51305

ASP 305 Channel Calculation

Channel Calculation of ArtemiS SUITE extends the Calculation Project (included in APR 000), so that each channel can also be processed individually via a script. In addition, Channel Calculation can be embedded in Automation Projects and Standardized Test Projects.

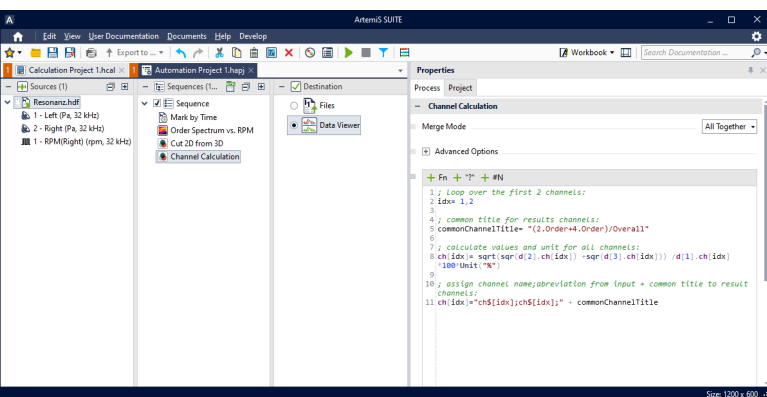
OVERVIEW

ASP 305 Channel Calculation

Code 51305

Channel Calculation can be used to post-process any channel or multiple channels simultaneously with customized mathematical operations.

By means of a script, the processing options for each channel can be predefined, e.g., comparison to a reference channel. In addition, cross-channel and further operations can be defined. Thereby an auto completion supports users as after the input of one and optionally further characters an accordingly filtered list of all available functions is displayed. The script is checked for compliance with the syntax as soon as it is entered.



KEY FEATURES

Channel Calculation can be used to extend Calculation Projects (included in APR 000) and can be embedded in Automation Projects (APR 050 is required) as well as in Standardized Test Projects (APR 220 is required)

Simultaneous processing of multiple channels using scripts

Post-processing operations using customized mathematical operations (e.g., sin, log, sign) to specify individual processing for each channel or to define channel comprehensive operations

Automated post-processing of Channel Calculation with Automation Projects and Standardized Test Projects

64-bit implementation

Automated changing of channel measurement units

Use of predefined code segments

Color syntax highlighting

Proposal lists

APPLICATIONS

- › Level adjustments for individual channels or for all channels
- › Comparisons with a reference channel
- › Creating channels using various mathematical functions (e.g., sin, log)
- › ...

Calculation Project

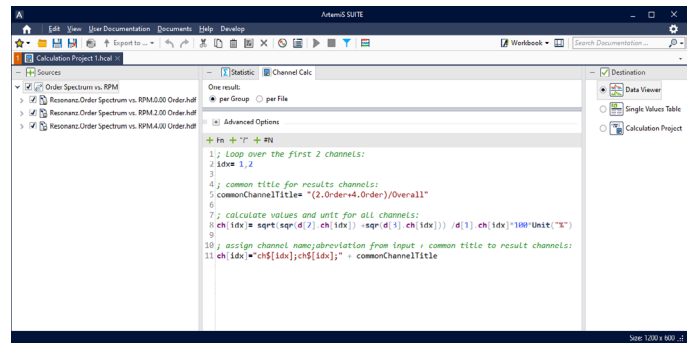
The Channel Calculation can be performed in the Calculation Project, which is similar to a Pool Project, to offset channels with each other, for example. Thereby a similar structuring is applied, however, it is reduced to three pools being arranged consecutively.

By means of Channel Calculation, Calculation Projects also enables users to carry out channel-related operations, e.g., for automated post-processing of analysis results. Users can specify a calculation rule for every channel or define cross-channel operations and create new channels using various mathematical functions.

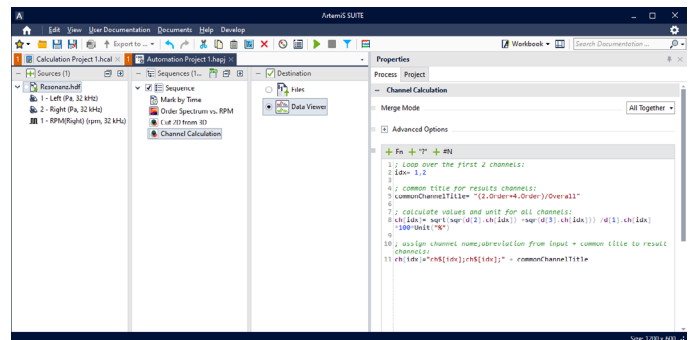
Channel Calculation in Automation Projects and Standardized Test Projects

Channel Calculation can be inserted into an Automation Project and a Standardized Test Project in order to automatically proceed level adjustments, comparisons with a reference channel, or channel comprehensive operations, for example.

Channel Calculation can be embedded into a sequence of an Automation Project and or Standardized Test Project as normal. Clearly and quickly the user can customize the options in the Properties tool window.



Channel Calculation used in a Calculation Project.



Channel Calculation used in an Automation Project.

Required: APR Framework (Code 50000)
and/or: HEAD System Integration and Extension (ASX) programming interfaces



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