

imc FAMOS 2025

Getting Started

Doc. Rev.: 1 - 2025-05-15



Disclaimer of liability

The contents of this documentation have been carefully checked for consistency with the hardware and software systems described. Nevertheless, it is impossible to completely rule out inconsistencies, so that we decline to offer any guarantee of total conformity.

We reserve the right to make technical modifications of the systems.

Copyright

© 2025 imc Test & Measurement GmbH, Germany

This documentation is the intellectual property of imc Test & Measurement GmbH. imc Test & Measurement GmbH reserves all rights to this documentation. The applicable provisions are stipulated in the "imc Software License Agreement".

The software described in this document may only be used in accordance with the provisions of the "imc Software License Agreement".

Open Source Software Licenses

Some components of imc products use software which is licensed under the GNU General Public License (GPL). Details are available in the About dialog.

If you wish to receive a copy of the GPL sources used, please contact our tech support.

Notes regarding this document

This document is an excerpt from the manual of imc FAMOS. The manual for imc FAMOS is available both as an chm and in PDF format. Click on the symbol  to open the help.

The program "*imc Help and Documentation*" (in the Start menu or via the menu ribbon "*Help*" > "*Additional Documents*") provides you with access to the PDF-file and other documents.

What is the best way to read the imc FAMOS documents?

If you have already worked with an older imc FAMOS version, we recommend taking a look at the topic "*Update-Info*" (What's new...). Here you can get a quick overview of changes and innovations implemented in the current version.

Getting Started

Before installing the software, start by reading the document "*Getting Started*". This contains important tips for achieving problem-free installation, as well as for operation.

All information presented in the document "*Getting Started*" is also presented in the imc FAMOS manual.

Manual - complete documentation

The manual serves as reference material. However, it is still recommended that you observe the entire instructions in order to be able to use certain functions which are more interesting than obvious.

ReadMe

This presents info on changes and extensions in imc FAMOS which were implemented after this manual went to print.

Tutorials

Following successful installation, we recommend working through the chapter "[Tutorial](#)"  in order to get quickly acquainted with the workings of imc FAMOS. It familiarizes you with the imc FAMOS operating philosophy and basic operations in a convenient manner.

Training programs for introduction to the systems, and advanced workshops

We recommend that before you begin working with imc FAMOS you participate in an extensive training session. Such training will enable you to get started working efficiently much faster. Additionally, you will obtain valuable tips and information on how to use the software more effectively. More information is available on our homepage under "*Service & Training*" > "*imc ACADEMY*".

Special notes



Warning

Warnings contain information that must be observed to protect the user from harm or to prevent damage to property.



Note

Notes denote useful additional information on a particular topic.



Reference

A reference in this document is a reference in the text to another text passage.

Table of contents

- 1 General introduction 5**
 - 1.1 Before you start 5
 - 1.2 Tech support 5
 - 1.3 Service and maintenance 6
 - 1.4 Legal notices 6
 - 1.5 imc Software License Agreement 7
- 2 Foreword 10**
- 3 Setting up - Software 11**
 - 3.1 System requirements 11
 - 3.2 Installation 11
 - 3.3 Start 14
- 4 Tutorial 15**
 - 4.1 Introduction 15
 - 4.2 Starting FAMOS 16
 - 4.3 Directories 18
 - 4.4 Loading Files 19
 - 4.5 Showing Variables 20
 - 4.6 Zoom 20
 - 4.7 Unzooming 21
 - 4.8 Measure 22
 - 4.9 Properties 23
 - 4.10 Interpolation 24
 - 4.11 Two channels in Curve Window 26
 - 4.12 Changing a Formula 30
 - 4.13 Single Values 31
 - 4.14 Calculations 31
 - 4.15 Data Editor 32
 - 4.16 Saving results 33
 - 4.17 Deleting variables 33
 - 4.18 Spectrum 34
 - 4.19 Complex data sets 35
 - 4.20 Creating sequences 37
 - 4.21 Executing sequences 38
 - 4.22 Changing sequences 39
 - 4.23 Saving sequences 39
 - 4.24 AI-Assistant 40
 - 4.25 Creating documentation with Panels 41
 - 4.26 Favorites 43
- Index 44**

1 General introduction

1.1 Before you start

Dear user.

1. The software you have obtained, as well as the associated manual are directed toward competent and instructed users. If you notice any discrepancies, we request that you contact our [tech support](#) ⁵.
2. Updates during software development can cause portions of the manual to become outdated. If you notice any discrepancies, we request that you contact our tech support.
3. Please contact our tech support if you find descriptions in the manual which you believe could be misunderstood and thereby lead to personal injury.
4. Read the enclosed [license agreement](#) ⁷. By using the software, you agree to the terms and conditions of the license agreement.



Note

Notes on the descriptions and the screenshots

- The help may also contain parts **shared imc software components**. These parts may differ from the rest of the help in terms of style and structure. All help files are equipped with a full text search functionality and have an index.
- The screen shots appearing in this documentation were created with a **variety of Windows versions** and their appearance may thus differ from that of your installed program.

1.2 Tech support

If you have problems or questions, please contact our tech support:

Phone: (Germany): **+49 30 467090-26**
E-Mail: hotline@imc-tm.de
Internet: <https://www.imc-tm.com/service-training/>

Tip for ensuring quick processing of your questions:

If you contact us **you would help us**, if you know the **serial number of your devices** and the **version info of the software**. This documentation should also be on hand.

- The device's serial number appears on the nameplate.
- The program version designation is available in the About-Dialog.

Product Improvement and change requests

Please help us to improve our documentation and products:

- Have you found any errors in the software, or would you suggest any changes?
- Would any change to the mechanical structure improve the operation of the device?
- Are there any terms or explanations in the manual or the technical data which are confusing?
- What amendments or enhancements would you suggest?

Our [tech support](#) ⁵ will be happy to receive your feedback.

1.3 Service and maintenance

Our service team is at your disposal for service and maintenance inquiries:

Phone: (Germany): **+49 30 629396-333** (Mon.-Fri.: 9.00 - 12.00 and 13.00 - 17.00)

E-Mail: imc-service@axiometrixsolutions.com

Internet: <https://www.imc-tm.com/service>

Service and maintenance activities include, for example calibration and adjustment, service check, repairs.

1.4 Legal notices

Quality Management



imc Test & Measurement GmbH holds DIN EN ISO 9001 certification since May 1995 and DIN EN ISO 14001 certification since November 2023. You can download the CE Certification, current certificates and information about the imc quality system on our website:

<https://www.imc-tm.com/quality-assurance/> and in the [download area of imc FAMOS](#).

imc Warranty

Subject to the general terms and conditions of imc Test & Measurement GmbH.

Liability restrictions

All specifications and notes in this document are subject to applicable standards and regulations, and reflect the state of the art well as accumulated years of knowledge and experience. The contents of this document have been carefully checked for consistency with the hardware and the software systems described. Nevertheless, it is impossible to completely rule out inconsistencies, so that we decline to offer any guarantee of total conformity. We reserve the right to make technical modifications of the systems.

The manufacturer declines any liability for damage arising from:

- failure to comply with the provided documentation,
- inappropriate use of the equipment.

1.5 imc Software License Agreement

imc Test & Measurement GmbH
Voltastr. 5
13355 Berlin, Germany
Trade register: Berlin-Charlottenburg HRB 28778
Managing directors: Michael John Flaherty, Frank Mayer

imc Test & Measurement GmbH
Terms and Conditions
Governing the Use of imc Test & Measurement GmbH Software
As of: January 18th, 2024

§ 1 Objects of the Agreement

- (1) In addition to the "General Terms and Conditions Governing imc Test & Measurement GmbH Deliveries and Services to Customers", these terms and conditions apply to all contracts concluded with imc Test & Measurement GmbH (hereinafter referred to as "imc") which involve the transfer of rights of use to any software developed by imc (standard software, software created or adjusted specifically for the Customer, which is recorded on the machine-decodable data carriers such as data files, databases and database material, updates, upgrades, releases, etc., including corresponding documentation, information and materials, hereinafter referred to as "Software").
- (2) The Software is provided to the Customer as an executable object program on machine-decodable data carriers specified in the "Objects of the Agreement". The Software's product documentation is also supplied to the Customer either in print or on a machine-decodable data carrier. Unless otherwise expressly agreed in writing, the Customer is not issued the source code of the Software.

§ 2 Rights of Use, Scope

With regard to any transfer of rights of use to Software created by imc, the following provisions apply:

(1) Basic provisions

- a) The Customer is granted a non-exclusive and – subject to the terms and conditions governing the use of Software by third parties, resale and leasing – non-transferrable right of use to the Software for its own purposes. "Use" signifies running the programs and editing the data records.
- b) Until each due fee is paid in full, the Customer is entitled to use the Software solely on a revocable basis. If the Customer is in default with regard to the payment of fees, imc is entitled to revoke the use of the respective services for the duration of the default. The Customer is granted the permanent right to use copyright protected services, in particular the Software, only upon full payment of the agreed fee.
- c) The Customer agrees to undertake appropriate precautionary measures to prevent unauthorized access by third parties to the Software. The original data carriers and the data carries used to make copies as per the agreement, as well as the documentation, are to be stored in a secure location. Employees are to be notified that the production of copies beyond the scope of the agreement is not permitted.
- d) If the right of use is revoked or expires due to another reason, the Customer is obligated to return to imc the Software, the copies made by the Customer and the documentation. Provided that a physical return of the Software and the copies is not possible due to technical reasons, the Customer is obligated to delete such and confirm deletion to imc in writing.

(2) Reproduction

- a) The Customer is entitled to make copies of the Software only if copies are necessary to use the Software in accordance with the contract. The following are considered cases in which reproduction is necessary: installation of the Software from the original data carrier onto the hard disk drive of the hardware used, as well as loading the Software into the computer memory.
- b) The Customer is entitled to create a backup copy if such is necessary to safeguard future use. Copies may only be made for other purposes after prior written consent has been issued by imc.
- c) The Customer is not allowed to make any reproductions other than those expressly permitted under the provisions of this agreement.

(3) Use of the Software by Third Parties, Resale and Leasing

- a) The Software may be used for the purposes stipulated in this contract, in particular for the Customer's business operations. Access to the Software may also be provided to parties which rely on using the Software as instructed by the Customer. In particular, the Customer is entitled to operate the Software or allow the Software to be operated on data processing devices, which are located on the premises of and are directly owned by a third party company (outsourcing). The prohibition against multiple use remains unaffected.
- b) The Customer may permanently sell or give the Software to third parties provided that the Customer is granted permanent use of the Software. In the context of its period of use, the Customer may temporarily transfer the Software to third parties for a fee or free of charge. The prohibition against multiple use remains unaffected. The Customer is expressly notified that transfer to third parties is not permitted and use by third parties is technically not possible if an individual license must be acquired or an individual activation is required for third party usage, such as in the case of runtime licenses.
- c) With regard to the valid use of Software by a third party, the Customer is obliged to ensure that the third party acknowledges the provisions of this agreement governing the rights of use as binding for such third party. The Customer may not transfer Software and documentation to third parties if there are grounds to suspect that the third party may infringe upon the provisions of this agreement governing the rights of use, in particular with regard to the unauthorized production of copies.
- d) Subject to the provisions stipulated in § 4 Paragraphs 1 and 2 or a deviating express agreement in writing, the Customer may not use the Software while the Software is being used by a third party (prohibition against multiple use); in the event that the Software is transferred to the third party, the customer is obliged to surrender to imc all Software copies including, if applicable, all existing backup copies, or to destroy copies not surrendered.

(4) Decompilation

The reverse translation of the provided program code into other code forms (decompilation), disassembling and other forms of reverse engineering of the various production phases of the Software is not permitted. If interface information is required to achieve the interoperability of a separately created computer program, such may be requested from imc, or a third party to be named by imc, for a minor fee. Section 69 e of the German Copyright Act ("UrhG") remains unaffected by this provision.

(5) Changes by imc

If imc conducts adjustments, changes or enhances the Software on behalf and on account of the Customer, the Customer thus acquires the corresponding rights of use to the changes or enhancements of the Software to which he is entitled according to the stipulations of this agreement.

(6) Exceptional Usage Requests by the Customer

If the Customer requests to use the Software according to terms which deviate from the requirements stipulated in Paragraphs 2 through 5, this exceptional use of the Software must be agreed in writing by imc. In such an instance, the Customer agrees to provide imc with information about the desired scope of use, the pertinent field of application, etc. If imc subsequently grants a license covering the Customer's special intended use, the parties agree that a new license fee is owed by the Customer, which is independent of payments made by the Customer for the previously existing license.

§ 3 Copyright, Protection of the Software

- (1) The intellectual property, in particular the copyright as well as all industrial property rights and trade secrets, are retained by imc and are not transferred to the Customer. The Customer's ownership of the machine-decodable data carries and data processing units remains unaffected.
- (2) Copyright notices, serial numbers as well as designations and reservations of rights which serve as program identification or a protective right may not be removed or changed. The Customer is obliged to transfer the existing protective right notices to all copies. In particular, backup copies of the Software must be expressly designated as such.

§ 4 License Types, Multiple Use

- (1) In the case of a Single-User License, the Software may be activated and run on only one data processing unit. "Activation" refers to the process of transferring the license to the data processing unit.

If the technical specifications for the Software permit a second activation, then the Customer may additionally activate the Software on a second data processing unit. However, the Software may only run on one data processing unit at any one time, not on both simultaneously.

- (2) With a Network License, the Software may be run on as many data processing units as the amount of licenses obtained. In this case a central data processing unit acts as the license server for which the activation process is performed.
If the technical specifications for the Software permit a second activation, then the Customer may additionally activate and run the Software on as many data processing units as the amount of licenses obtained. However, these additional data processing units must be used by the same users who operate the Software via the license server.
- (3) Subject to the provisions in Paragraphs 1 and 2 or a deviating express agreement in writing regarding network use, multiple use of the Software is not permitted.
- (4) If the data processing unit is changed, the Customer is obliged to delete the Software from the hard disk drive of the previously used hardware.

§ 5 Software-Subscription

If the Software used is a software-subscription, the following additional restrictions apply:

- (1) The right of use is valid for a limited time period. The start and end of the time period are specified. After the end of the time period, the right of use is expired.
- (2) If the Customer wishes to continue using the Software after elapse of the specified time period, the subscription must be renewed.

§ 6 Trial Version

If the Software used is a free trial version, then the following additional limitations apply:

- (1) The trial version only entitles the user to test the Software. In particular, commercially productive utilization is not permitted.
- (2) The rights of use granted expire after the elapse of a period stated in the product description.

§ 7 License Key

- (1) Upon delivery of the Software the Customer receives a License Key. Using this License Key, the Customer is able to activate the Software purchased. By means of this License Key the Customer can also view his license status and order updates and upgrades.
- (2) The License Key is to be protected against access by third parties in order to prevent misuse. If, however, a third party gains unlawful access to the Key, the Customer is obliged to notify imc immediately via telephone, as well as in writing, so that the previous License Key may be suspended and a new one issued.

§ 8 Conclusion

- (1) The law of the Federal Republic of Germany shall apply under exclusion of private international law. The provisions of the UN Convention on Contracts for the International Sale of Goods (CISG) do not apply.
- (2) The place of performance for all obligations arising from this agreement is imc's registered seat. Insofar as the Customer is a merchant as defined by the German Commercial Code (HGB), a legal entity under public law, or a special asset under public law, the exclusive place of jurisdiction for all disputes directly or indirectly arising from the contractual relationship is agreed as imc's registered seat. The same applies to persons who have no general place of jurisdiction in Germany, as well as to persons who have moved their place of residence or usual whereabouts abroad since conclusion of the contract, or whose place of residence or usual whereabouts is unknown at the time the action is filed. In addition, imc is entitled to file suit at the statutory venue.
- (3) Oral side-agreements are not valid. Deviating or supplementary conditions as well as modifications of this contract, including this written requirement clause, are only valid if agreed in writing and expressly marked as a modification or supplement.
- (4) If certain provisions of this contract are inoperative or unfeasible, this does not prejudice other provisions of the contract. The contracting parties agree to contractually substitute an operable provision which approximates the commercial intention of the contract as closely as possible for any inoperable one.

2 Foreword

imc FAMOS (Fast Analysis and Monitoring of Signals) is a software program for analysis and evaluation of measurement results. With an extensive range of functions conceived especially for the needs of measurement and control applications, imc FAMOS eliminates much of your routine work in a comfortable fashion.

With imc FAMOS, you can process large data sets quickly and efficiently and create computational procedures using standard mathematical notation. No specialized programming expertise is required! Furthermore, imc FAMOS offers powerful means for displaying your data in charts or tables and for printing these in individually designed reports.

imc FAMOS processes measured data produced by imc devices (e.g. imc CRONOS, imc C-SERIES). The scope of functions also includes a large number of import- and export filters for common file formats (e.g. the standard formats of different manufacturers of measurement devices).

The task of importing data into an analysis program which are not expressed in a directly supported file format is often the first and most difficult problem involved with analyzing measured data. Toward this end, imc FAMOS offers support in a variety of ways: for simple ASCII formats, for example, a flexible and easily configured Assistant is provided. For more complex formats, the imc File Assistant can be used, by which means the user can personally create import filter, even without possessing any programming skills.

imc FAMOS is principally conceived for use in offline evaluation of data and cannot be used to control measurement instruments

imc FAMOS can be expanded with add-on modules and function libraries. Expansions are available which, for example, make it possible to design digital filters or to classify measurement data. Furthermore you can add your own self-written function libraries to imc FAMOS.

3 Setting up - Software

3.1 System requirements

Supported operating systems

Windows 10*/11* (64 bit)

Windows 2016/2019/2022 Server (64 bit)

*released in conformance with the version of Windows 10 /
Windows 11 applicable at build date of imc software

For the purpose of assigning imc FAMOS network licenses by means
of the License Manager, support of Windows 2003 Server
continues.

Minimum requirements for the PC

Processor with 1 GHz

2 GB RAM

1 GB free hard disk drive (NTFS format)

Languages:

German, English for programming. GUI also supports Japanese , French, Chinese, Korean partially.

Microsoft ® Excel:

In order to be able to import or export files in Microsoft ® Excel format (*.xls,*.xlsx), Excel must be installed
on the same computer. The following versions are supported:

- Excel 2010, 2013, 2016, 2019, 2021 (except "*Starter Edition*"), Microsoft 365*

*released in conformance with the version of Microsoft 365 applicable at build date of imc software

Other operating system components

The following components are installed with the imc FAMOS setup if they are not already present:

Component	Version	Folder in "OSUpdate" directory
Microsoft .NET Framework	4.8.3761.0	ndp48-x86-x64-allos-deu.exe
	4.8.4115.0	ndp48-x86-x64-allos-enu.exe
Microsoft VC 2022	14.31.31103	VC2022

3.2 Installation

Windows must be correctly installed and all system requirements must be assured before installing imc FAMOS .

To install imc FAMOS , start the program "*Setup_ImcFamos_X64.exe*" from the root directory of the installation
CD.

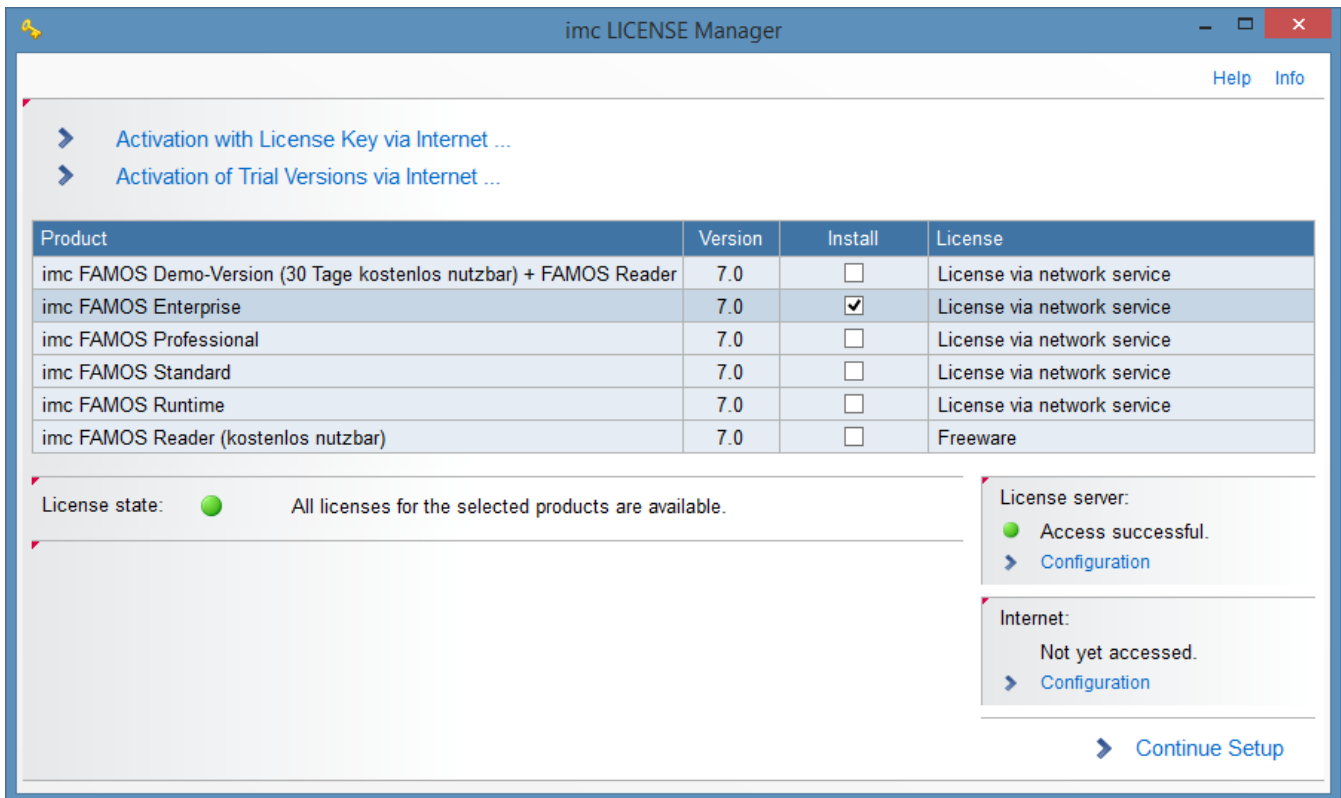
Alternatively you can select the "*Software*" icon and subsequently the command "*Install*".

Administrator rights required

For the purposes of installation and uninstallation, a user account with **administrator privileges for the PC is required**.

If you are logged on to the PC **without administrator rights**, **log yourself out** and log back on with an administration-level user account. If you don't possess the appropriate account type, you will need the support of your system administrator or IT department.

Select the edition of imc FAMOS to install:



The licensing procedure must precede the installation. Select the edition you have acquired.

Start the licensing procedure by selecting the link "**Activation with License Key via Internet...**"

The **Reader**-version does not require licensing. To test the **Enterprise** version for 30 days, license it using the link "**Activation of Demo Versions via Internet...**"

For details on licensing, see here.

Follow the Assistant's instructions and select your preferred language for the online help files and example files like projects, sequences and dialogs.

In the subsequent dialog, the license agreement appears. Once you have accepted its provisions, select the installation folder to which to copy all the files.

The installation folder must be on the PC's local hard drive. imc FAMOS cannot be installed on a network drive.

This base directory will be structured with various subdirectories where, for example, sample files are deposited. The subdirectory \BIN, for instance, contains all executable files and program libraries; the subdirectory "\SEQ" sample sequences (macros); the subdirectory "\DAT" has measurement data files containing information in various data formats.

At installation, you must also supply a name for the program group; the installation program will then supplement the Windows Start menu with a corresponding entry. If, for instance, you specify "*imc*" as your group name, you will be able to call the program from the submenu "*Start/ Programs/ imc*".

3.3 Start

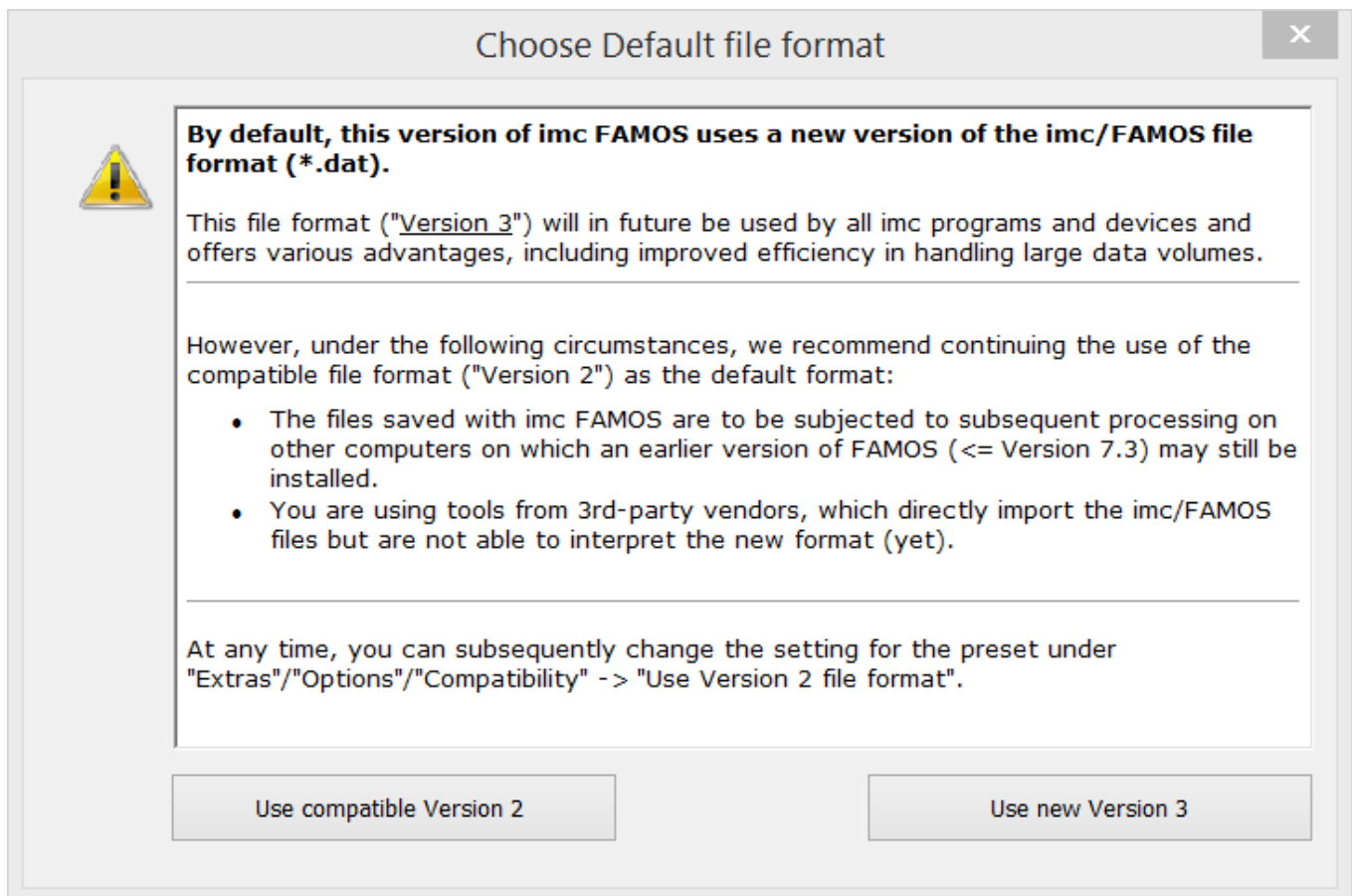
Start imc FAMOS either via the corresponding entry in the Windows Start menu, or by clicking on the shortcut on the Windows-Desktop which was created during the installation, or directly by calling the file "*famos.exe*" from the Windows Explorer.

Licensing

The software license is administered by a License Manager. A detailed description is located in the users manual. Earlier versions had been copyright-protected by a hardlock (blue dongle). As of imc FAMOS 6.1 this will no longer be required. If you wish to exchange an old imc FAMOS hardlock for the License Manager, please contact our [tech support](#) ⁵.

New data format

With imc FAMOS 7.4, the new file format imc3 is supported. This format has been designed in particular to allow the more rapid generation of data display when the data volumes become very large. Upon successful installation, you are presented one single time with a special decision aid dialog, which asks whether you wish to use the new format:



By means of FAMOS' Options dialog, it is possible to change the setting at any time. User Interface.

This document refers to the user's manual for detailed information. You can now begin by working through the chapter [Tutorial](#) ¹⁵. The subsequent chapters provide an overview of the User Interface.

4 Tutorial

4.1 Introduction

This chapter has been provided to acquaint you with some of the main features in imc FAMOS . After working through this chapter, you should be familiar with the basic functions. When performing more complex tasks, please refer to the relevant chapters for more detailed information.

The tutorial will demonstrate how to load a data set from a file and how to perform analysis using formulas. You will also display channels in graphs and create an automatic sequence. Efficient use of the File Browser for quick loading of files and for comparing data files is demonstrated.

Many of the commands used below can be called in several ways - via the imc FAMOS main menu, or via the respective context menu (right-click of the mouse), via the corresponding icon in the toolbar or by a combination of certain keys. In order to familiarize you with all of these options, they are each used in turn in the discussion below, or at least mentioned as alternatives.

If you encounter unfamiliar terms in the discussion below, refer to the manual chapters 'User-Interface', 'Appendix' and the help for MS-Windows.



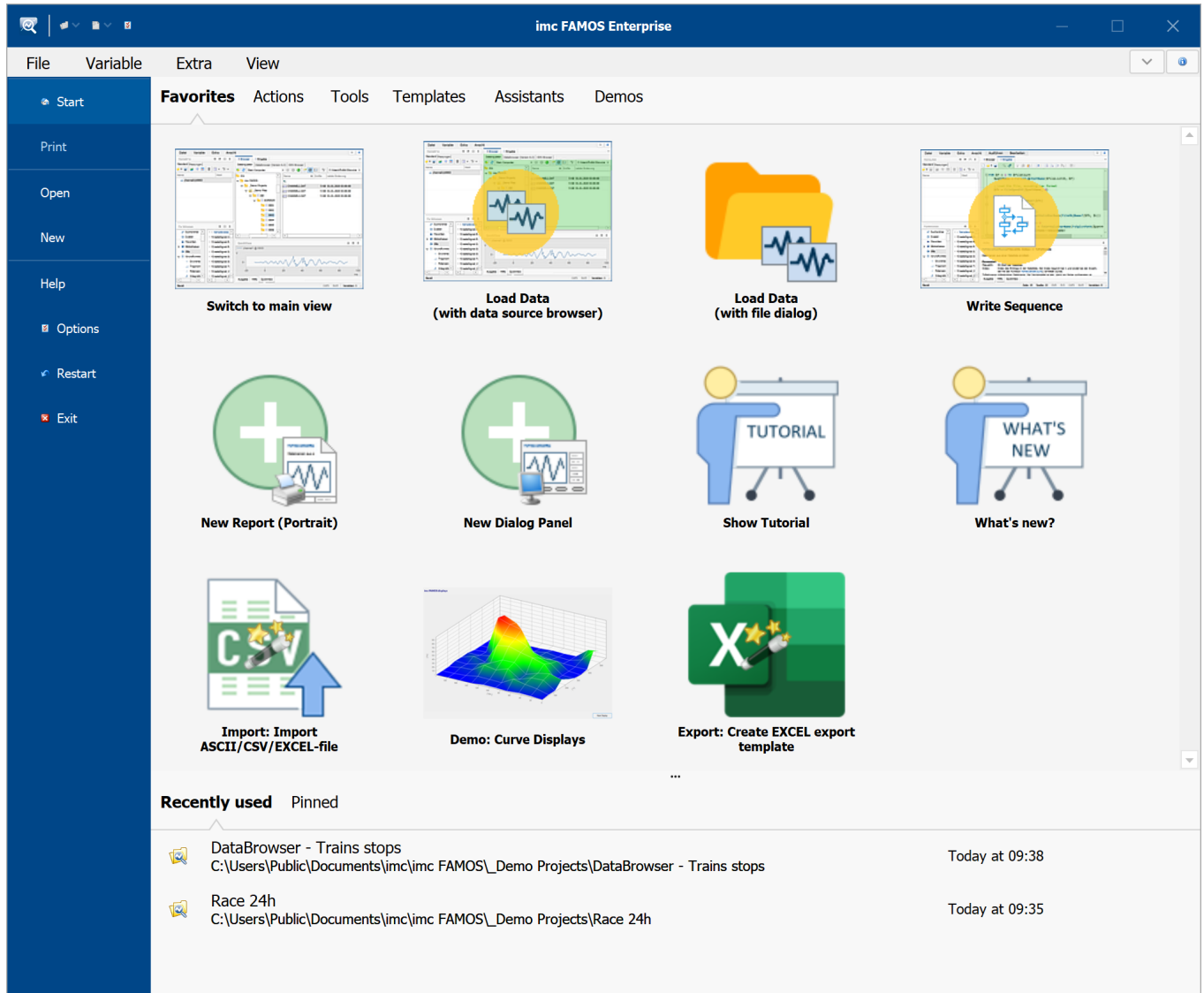
Note

In order to be able to follow the tutorial on the PC, at least the imc FAMOS Standard Edition is required.

4.2 Starting FAMOS

After successfully installing, start imc FAMOS either by accessing the shortcut installed in the Windows Start Menu or desktop.

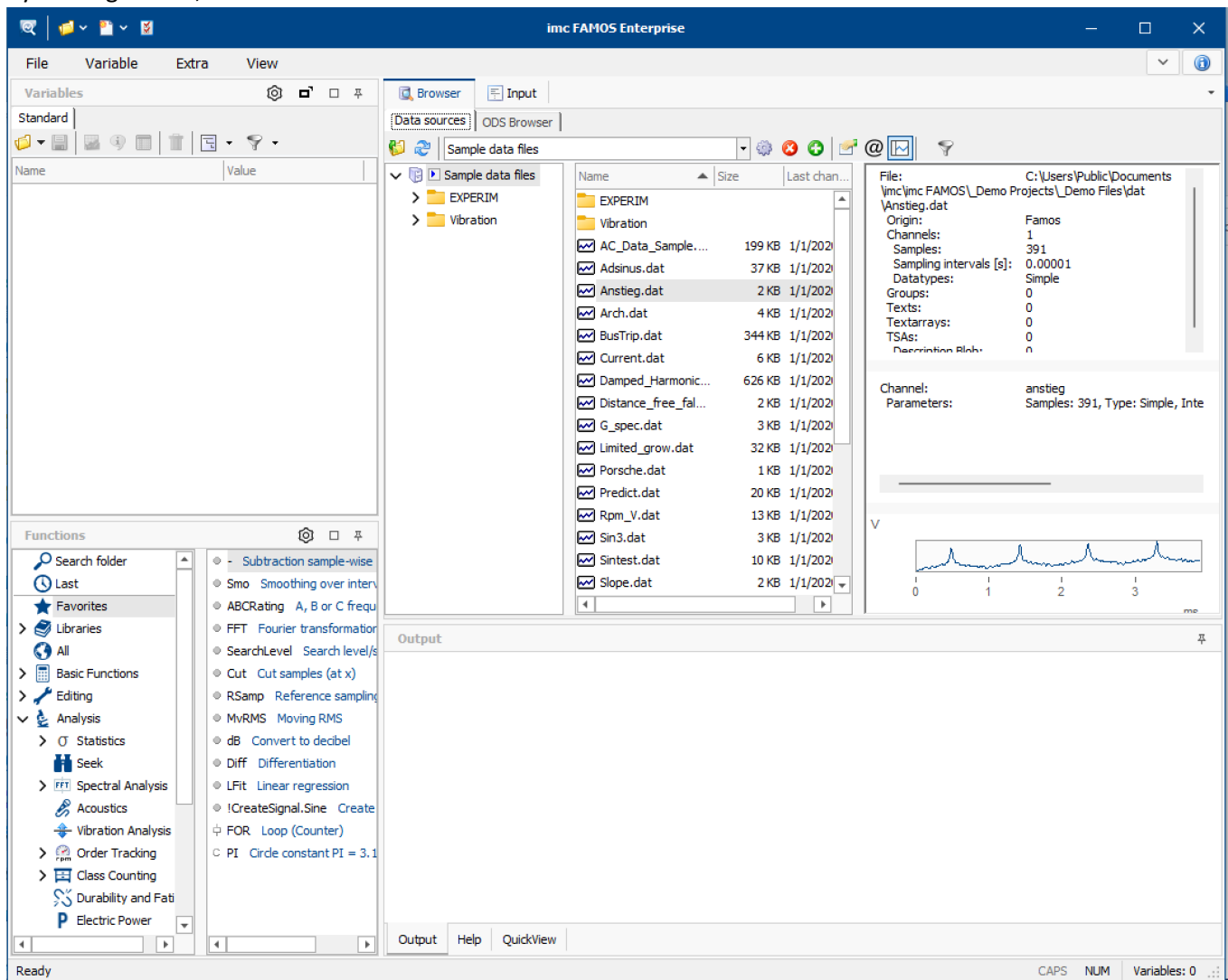
The Start screen appears:



imc FAMOS start screen

The start screen is the entry portal to imc FAMOS. Assistants and templates can be opened from here. A detailed description can be found in the chapter The start screen.

By clicking on *File*, FAMOS switches to the classic view:



FAMOS: Main window in standard set-up

If the main window appears differently from the illustration here, select menu *"View" / "Return to Default"* in order to restore the default configuration.

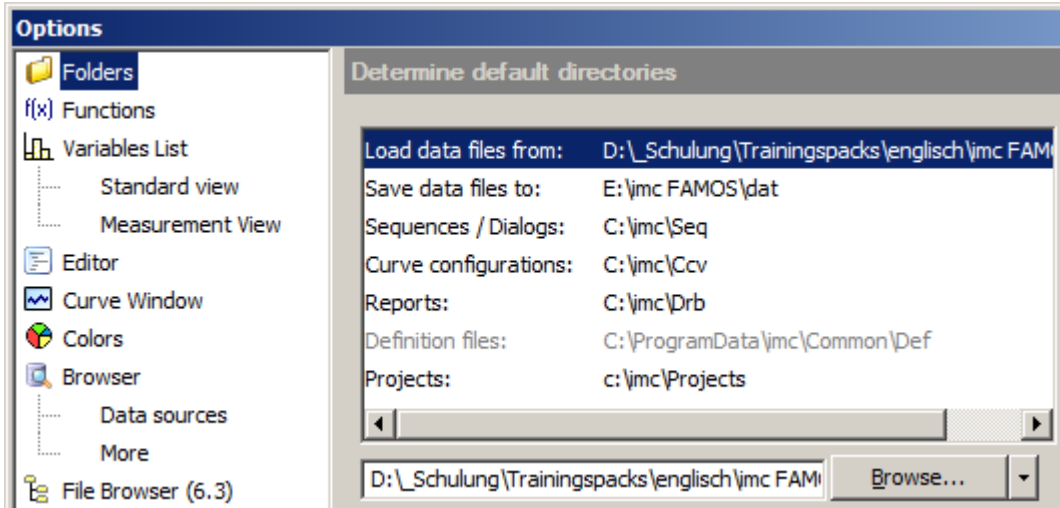
The workspace below the menu bar and tool bar is divided into 5 boxes:

- **Variable list**, displaying all channels and variables currently being processed.
- **Function list**, displaying all available functions and commands.
- **Plug-in window**, in which the separate user interfaces of extension modules are displayed. The File Browser plug-in is permanently available for fast access to measurement files. By default, this window is minimized, meaning that only its title bar is visible.
- **Editor window**, for entering and executing individual operations and sequences (macros)
- **Output window**, displaying help texts, error messages and warnings

The basic arrangement of these boxes is fixed (e.g., the variables list is always at the upper left), but the size and visibility of the boxes can be altered. For instance, it's possible to grab the border between 2 boxes with the mouse and move it, or use the corresponding buttons to minimize or maximize a box

4.3 Directories

Select the item "Options" in the "Extra" menu. The dialog which then appears presents all the presettings influencing imc FAMOS ' behavior. These are organized in various sections which can be selected from the list at left. Select from here the entry "Folders". A dialog box appears, in which you can set the default folders.



Dialog "Determine default directories"

The selected directory may be changed either in the input box or by calling a dialog with "Browse", which searches existing directories or can create a new directory.

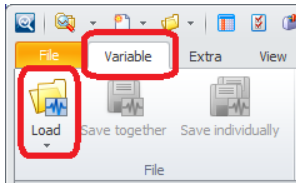
If you have completed installation of imc FAMOS and have selected the folder "C:

\Users\Public\Documents\imc\imc FAMOS" for sample files, the subfolders should appear as follows:

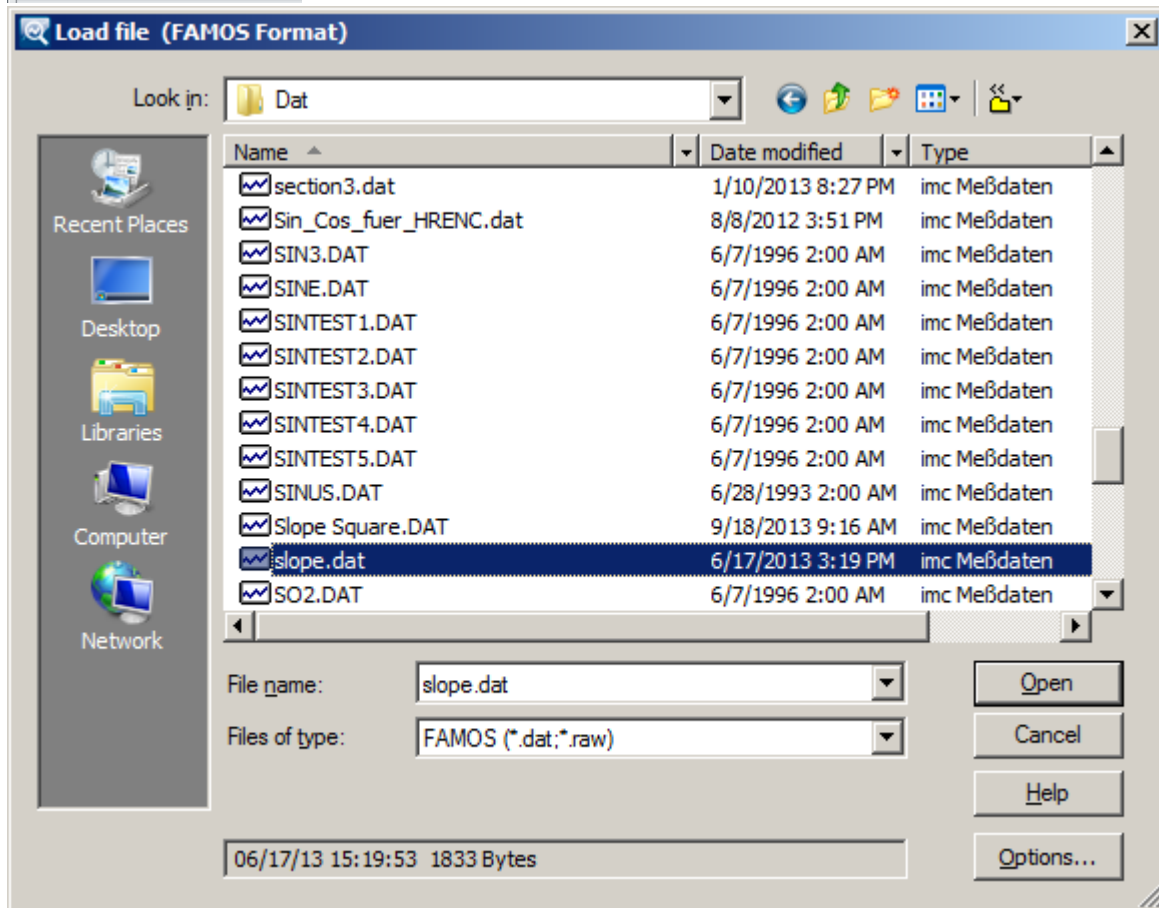
"Load data files from:"	C:\Users\Public\Documents\imc\imc FAMOS\DAT
"Save data files:"	C:\Users\Public\Documents\imc\imc FAMOS\DAT
"Sequences:"	C:\Users\Public\Documents\imc\imc FAMOS\SEQ
"Curve configurations:"	C:\Users\Public\Documents\imc\imc FAMOS\CCV
"Reports:"	C:\Users\Public\Documents\imc\imc FAMOS\DRB
"Definition files:"	C:\ProgramData\imc\Common\def (depends on system, read only)
"Projects:"	C:\Users\Public\Documents\imc\imc FAMOS\Projects

If unwanted directories are entered, simply change the appropriate entries. Confirm changes with <OK>, otherwise <Cancel>.

4.4 Loading Files



In the multi-function bar "Variable", select the menu item "Load". A dialog appears for loading a file. Set the file format "imc FAMOS" below left in the format list. All data set examples are listed in the directory box. Double-click on "*slope.dat*" or select the entry and then press <OK> to load the file.



Dialog "Load FAMOS file"

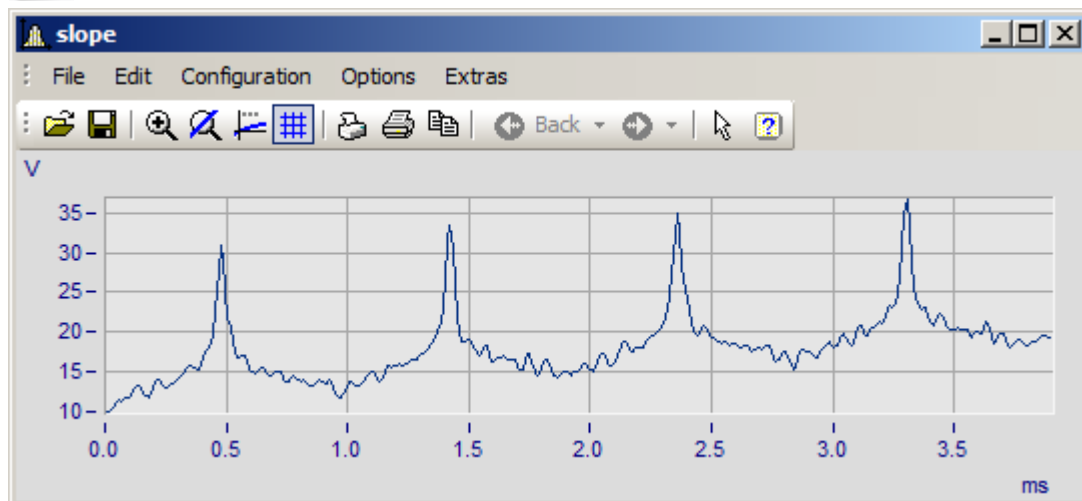
The dialog box is closed and the file opened. The variable *slope* appears in the list.

4.5 Showing Variables

Select the entry *slope* in the variable list by clicking on it once.



Press function key F4 or select item "Show together" in menu "Variable". A curve window displaying the channel appears, with the variable's name as the title.



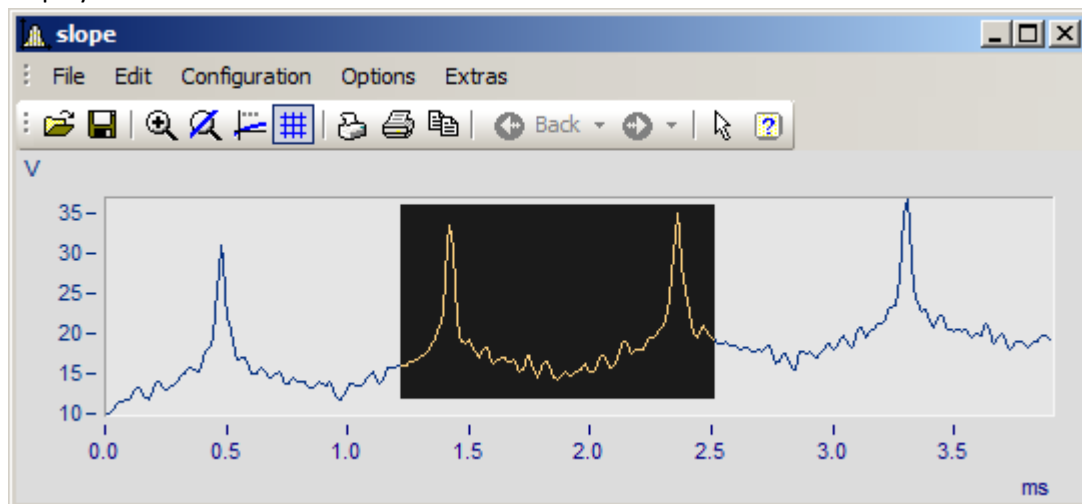
Curve window with variable "slope"

Move and enlarge the curve window somewhat and shift it away from the lower right corner of the screen.

4.6 Zoom

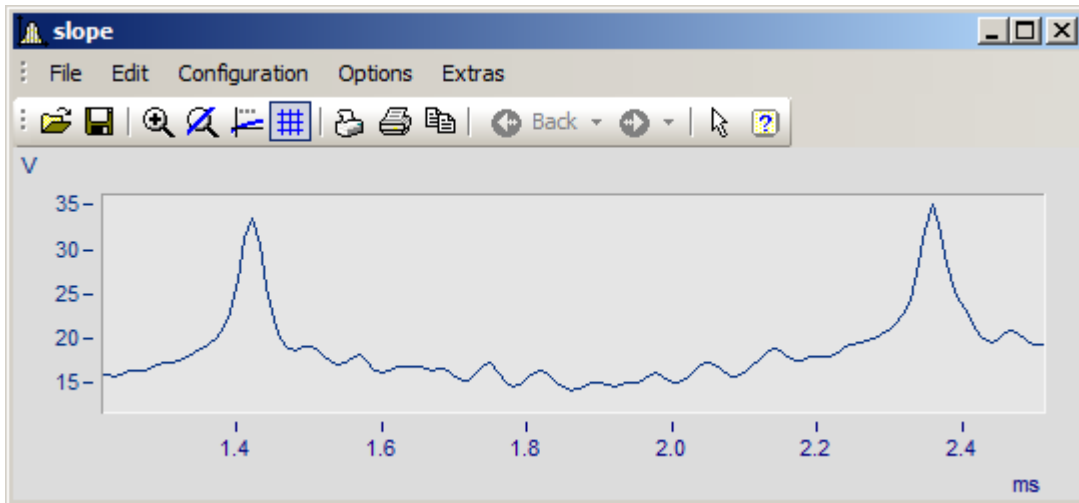
Select "Zoom" in the menu "Edit". The mouse cursor takes the shape of a vertical arrow.

Stretch a selection rectangle around the desired region while holding down the left mouse button. The region is displayed with its colors inverted.



Curve window with zoomed section

Select a range and release the mouse. The selected range is enlarged.



Curve window with zoomed waveform

To enlarge the curve section even more, simply repeat the process. Use the "Back" function if you wish to reverse the effects of the last actions.

Reference

'Curve Window' documentation, section 'Zoom'

4.7 Unzooming

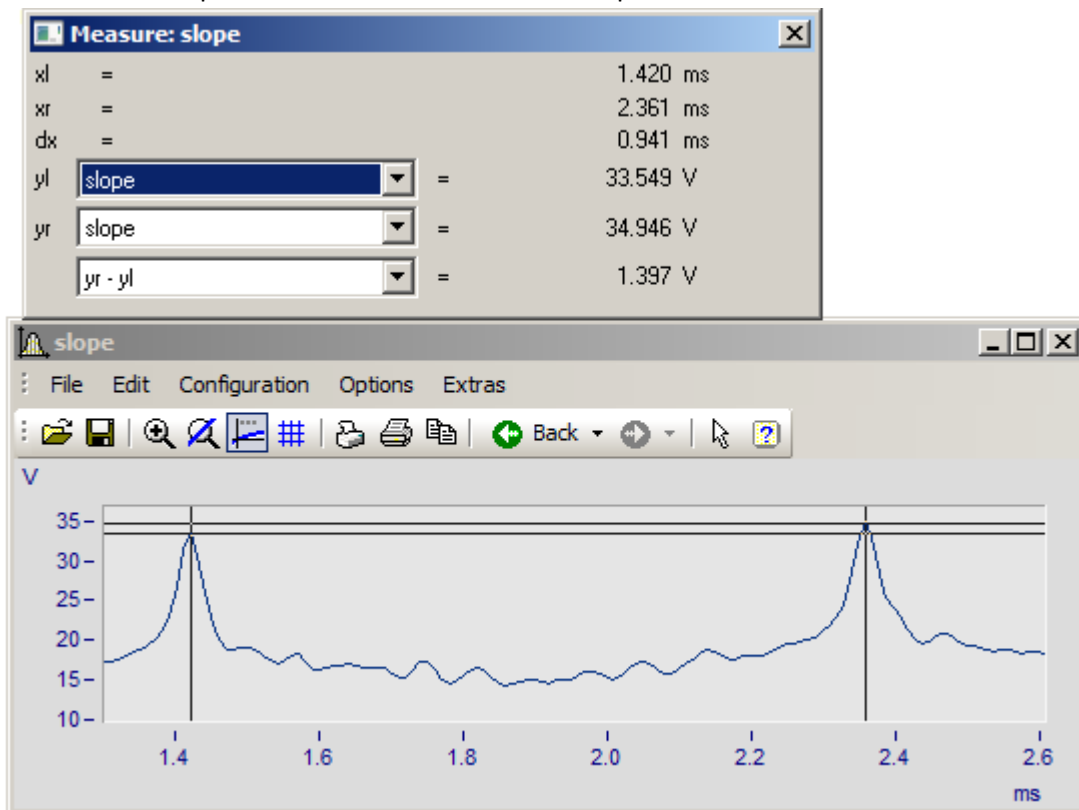
Select item "Unzoom" in the curve window menu "Edit". The whole waveform can be seen again.

4.8 Measure

To open the "Measure" window, select "Measure".

Two measurement cursors (crosshairs) appear in the curve window. The curves' values at the position of the measurement cursors are displayed in the measurement value window.

The x-value of the left crosshair is indicated by "xl = ..." and likewise with the right crosshair ("xr = ..."). The difference between the two x-values is indicated by "dx = ..." ($dx = xr - xl$). In the same way, "yl" and "yr" display the y-values of the two crosshairs. To move a crosshair, simply press the right or left mouse button and drag the it to the desired position. The crosshair follows the path of the waveform.



Curve window with measurement cursors (crosshairs)

The horizontal line tracks the curve's y-value.

As soon as you release the mouse button, the measurement results are displayed in the "Measure" window. By pressing moving the mouse while holding down both mouse buttons simultaneously, you can obtain measurements applicable to a constant dx. To quit the "Measure" mode, simply close the "Measure" window.

Reference

Curve Window' documentation, section '[Measure](#)'

4.9 Properties

If the entry "SLOPE" in the Variables list is not displayed in inverted colors, select it by clicking on it.



In the menu "Variable" select the item "Properties" (alternatively, push the function key F5 or click on the corresponding symbol in the toolbar).

A dialog box of information on the data set "SLOPE" appears, containing its length (number of data points), sampling interval, units and comments.

The 'Properties' dialog box is shown with the 'Characteristic values' tab selected. It contains the following fields:

Name:	slope		
Data type:	Normal data set		
Data format:	Real 4 Byte		
Comment:			
Group:			
Measurement:			
Filename:	C:\jmc\Dat\slope.dat		
Y-Unit	V		
Total size:	391	X-unit	s
X0	0	X-Delta	1e-005
Created on:	06/28/93 01:00:00		

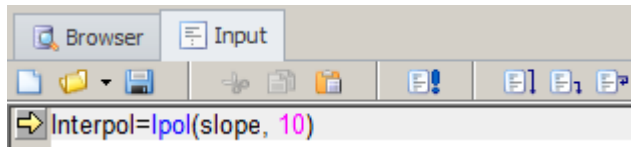
At the bottom are navigation buttons: <<, >>, OK, Cancel, and Help.

Properties which cannot be edited are displayed in the background color (usually gray). To exit this dialog, select <Cancel>.

Dialog: Properties

4.10 Interpolation

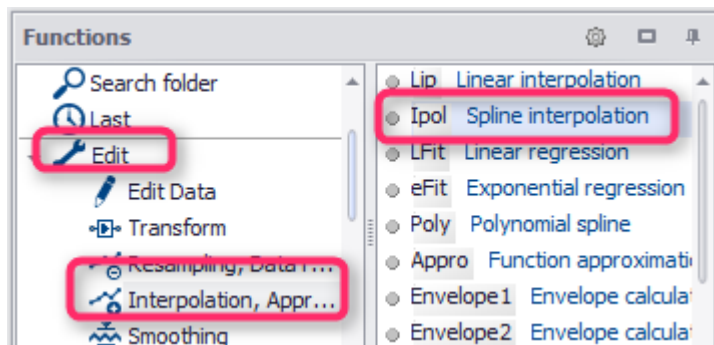
If you have zoomed extensively in the curve window, you must have noticed that the plot of the data set "SLOPE" is jagged. The channel consists of a finite amount of points. The graphical display in the curve window simply connects the data set's points by straight lines. If you wish to smooth the curve, you can generate a new data set on the basis of "SLOPE" by means of interpolation. To do this, enter the following formula in a new line in the Editor box:



This creates a variable *Interpol*. This new variable has a point density ten times greater than the data set *slope*.

"IPOL" is the name of the imc FAMOS function which performs such interpolation. This function has two parameters, the data set to be interpolated (here: "Slope") as well as the interpolations factor (here: 10). The result of this calculation is then assigned to the newly created variable "INTERPOL".

Enter the formula by proceeding as follows: first, type "INTERPOL ="



Input box with formulas

Next, in the Functions box at left, select the branch *Edit\Interpolation*.

Alternatively, select Search folder and enter the word *Interpolation*.

Select the function *Ipol*.

Double-clicking on the entry IPOL copies the function name along with its corresponding parameter mask to the current position in the editor window.

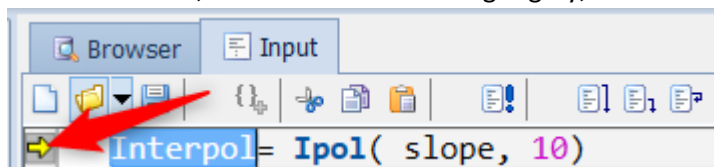
```
INTERPOL = IPol ( , )
```

Next, double-click in the Variables list on the entry "SLOPE" (to the right of the symbol). The variable's name is copied to the Editor box:

```
INTERPOL = IPol (SLOPE, )
```

Click once with the mouse between the comma and the right parenthesis and type in 10. The formula is now complete.

Now, we can test the formula. The line just entered must be denoted as the active formula. To do this, double-click on this line, which then is shaded light gray, and to the left of the line a little arrow button then appears.



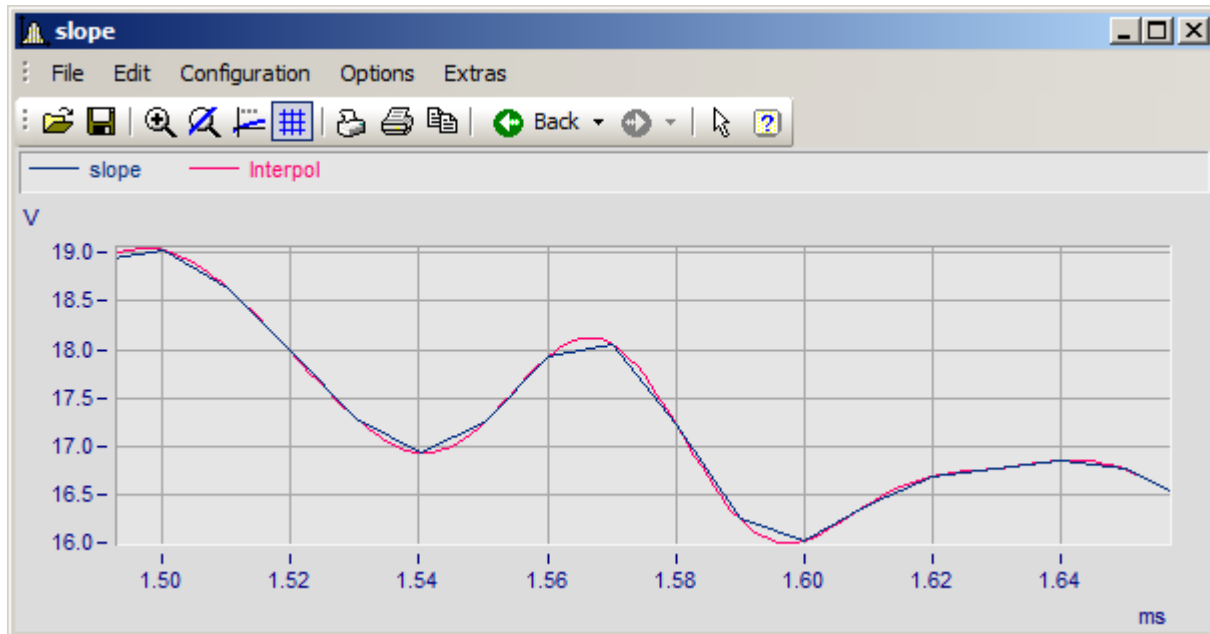
Execute command line with button

Thus, the currently active line is denoted in an unmistakable way, and by clicking on the button, the formula in this row is carried out.

Click on the button circled to execute the formula. If the formula was entered incorrectly, an error message appears. Correct the formula before attempting to execute it again.

Alternatively, you can use the combination of keys "CTRL" + "ENTER" to activate and execute the line with the input cursor.

Once the formula has been successfully calculated, the entry *Interpol* appears already selected in the variables list. Use function key F4 or the appropriate button in the tool list to view data set *Interpol*.



Curve window with variable 'INTERPOL'

Close the curve window and activate the window *slope*. Select "Unzoom" to view the entire curve.

Remarks

- Function and variable names can also be entered in the editor window using drag&drop. Refer to *chapter 'User Interface', sections 'Variables List' and 'Function List'*.
- As an alternative to the methods of manually entering formulas named, the parameterizing Assistant can be used. To access this, select the function "IPOL" in the functions list and use the combination of keys "SHIFT" + "F1", or select the corresponding menu item in the function list's context menu.
- If you select a function in the functions list or click on a function name in the input box, then a short description ("Quickhelp text) of the function appears in the output box.

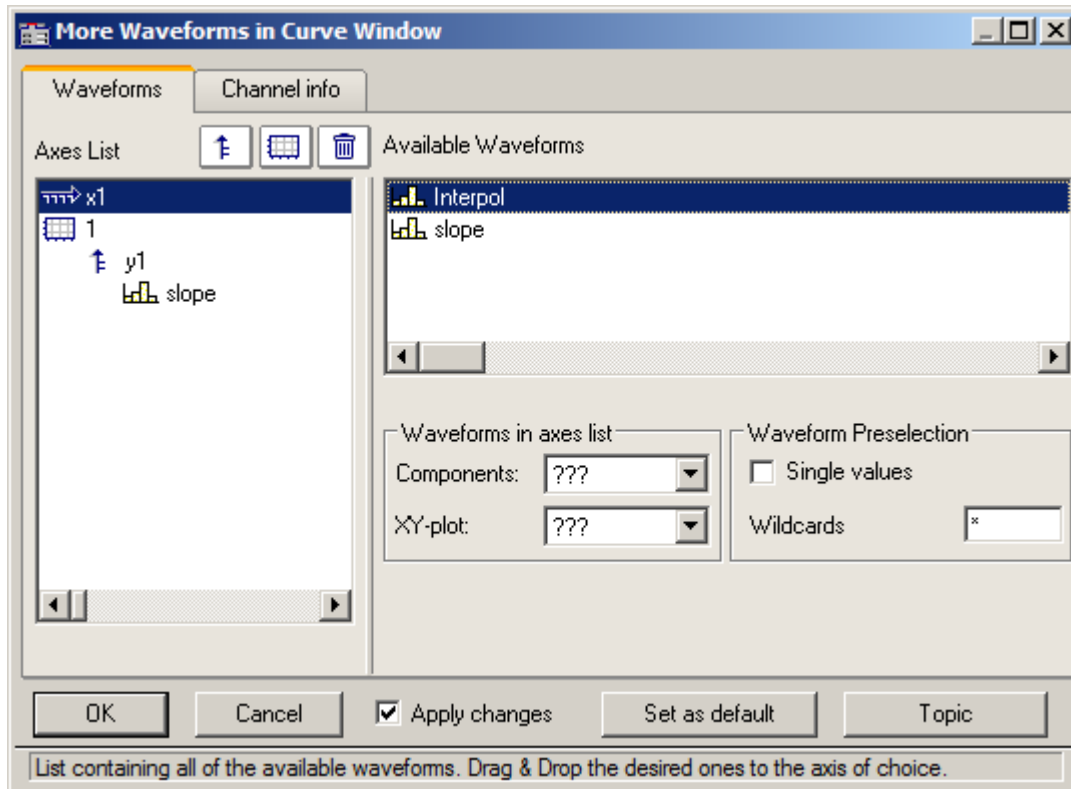
Reference

Chapter '*Functions*', Section '*Function Assistant*'.

4.11 Two channels in Curve Window

For better comparison of two curves, display both in the same curve window.

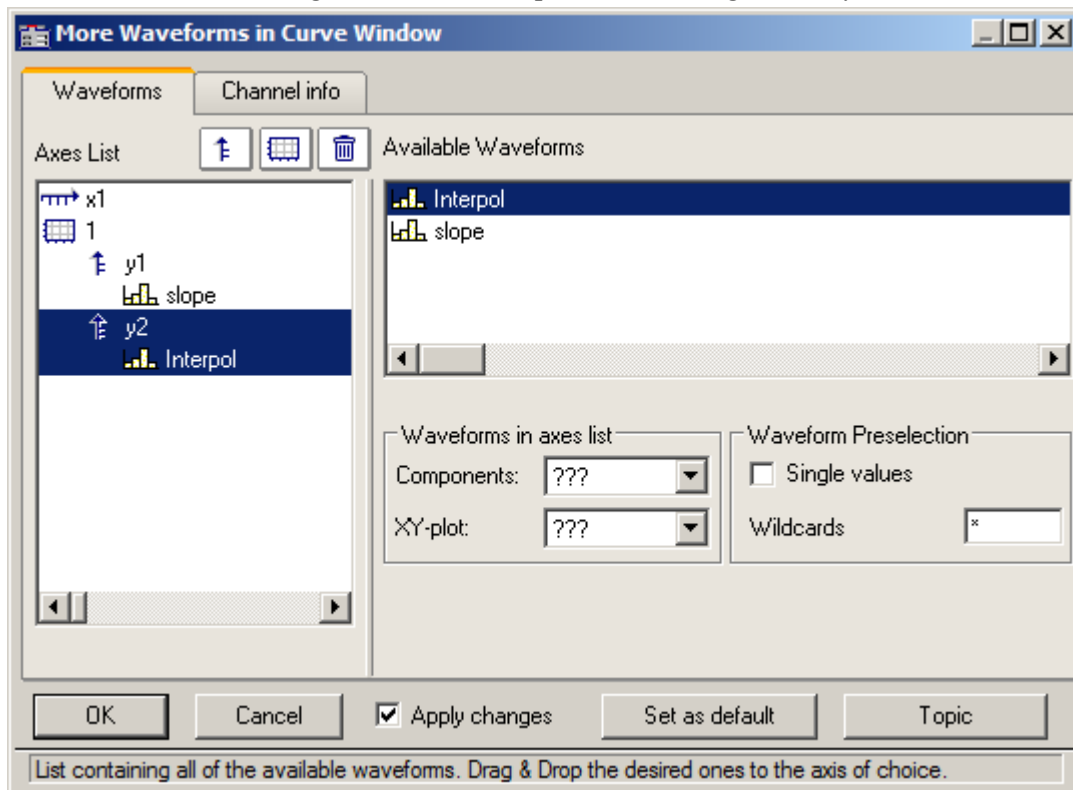
To do this, right-click in the curve window. In the context menu which then appears, select the item "More Channels...". In the following dialog, you can select additional variables and configure their appearance in the same curve window.



FAMOS: Dialog "More channels in curve window"

All data sets available for selection are listed in the list at right. The channels already displayed are indicated in the list at left.

Click on the data set *interpol* in the right list and drag the mouse while keeping its button pressed to the left list below the variable *slope*. Next, enter *interpol* in the left box as the second curve. Click the leftmost of the three screen buttons and click onto the *interpol* entry, in order to cause this waveform to be displayed in the curve window, sharing the x-axis of *slope*, but featuring its own y-axis.

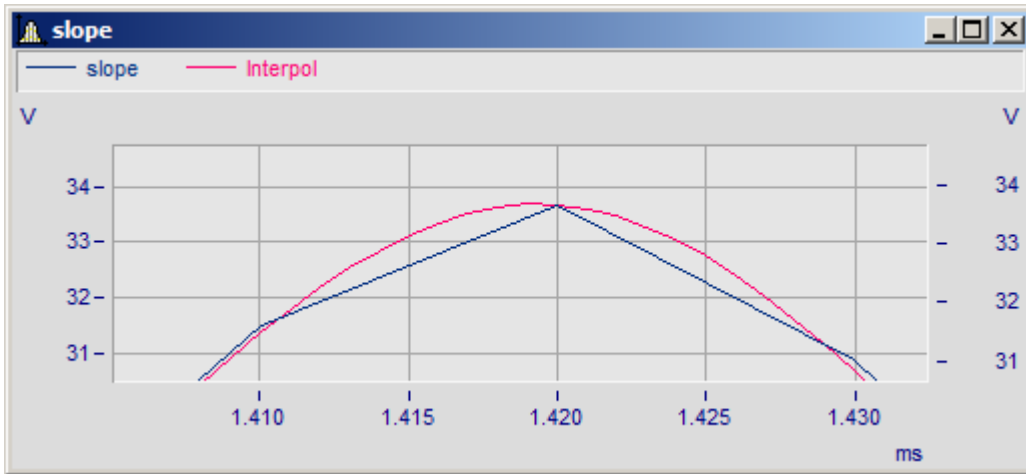


Curve window with two curves

Click on the screen button <OK>. The dialog is closed and the curve window redrawn, with two y-axes for two curves.

Note

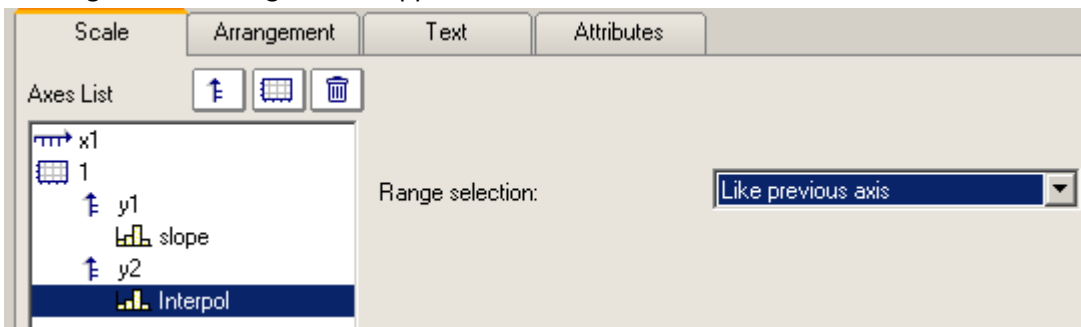
The same result could be achieved by employing drag&drop on the data set's entry in the variables list; depositing the entry in the middle of the curve window.



Curve window with two curves (separate axes)

In order to compare two curves, it is useful to set the same value range for both curves. Double-click between labels of the right (2nd) y-axis or select the menu item "Axes" in the curve window menu "Y".

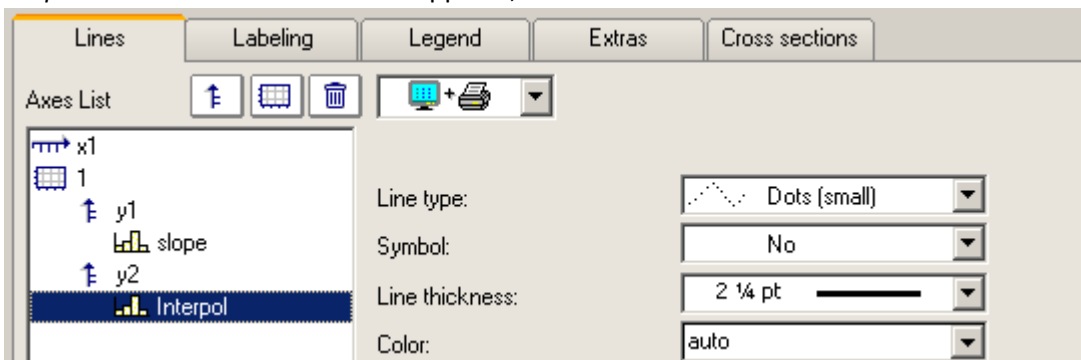
A dialog box for scaling the axis appears.



FAMOS: Dialog for scaling y-axes

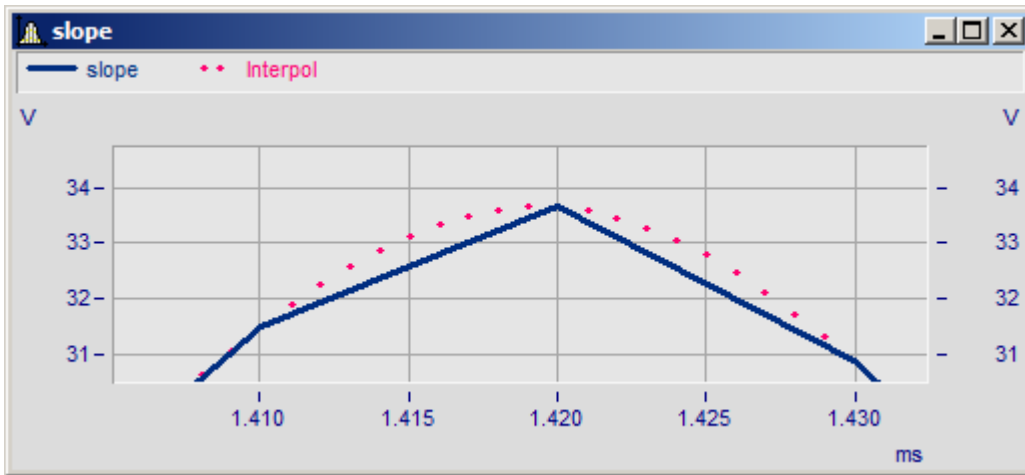
Select "Range selection/ Like previous axis" (base axis is the left y-axis).

We also wish to change the line style with which the curve "INTERPOL" is drawn. To do this, push the button "Topic" and from the menu which appears, select the item "Lines...".



Select from the axes list at left the data set "INTERPOL". Then select under "Line type" the item "Dots".

Select <OK> to close the dialog box. The curve window is redrawn. The right y-axis is deleted; the left y-axis applies to both curves, and is scaled according to the setup in the dialog box for selecting the range. The second curve (data set *INTERPOL*) is represented by a dotted line.



Curve window with two curves (common axis)

Note

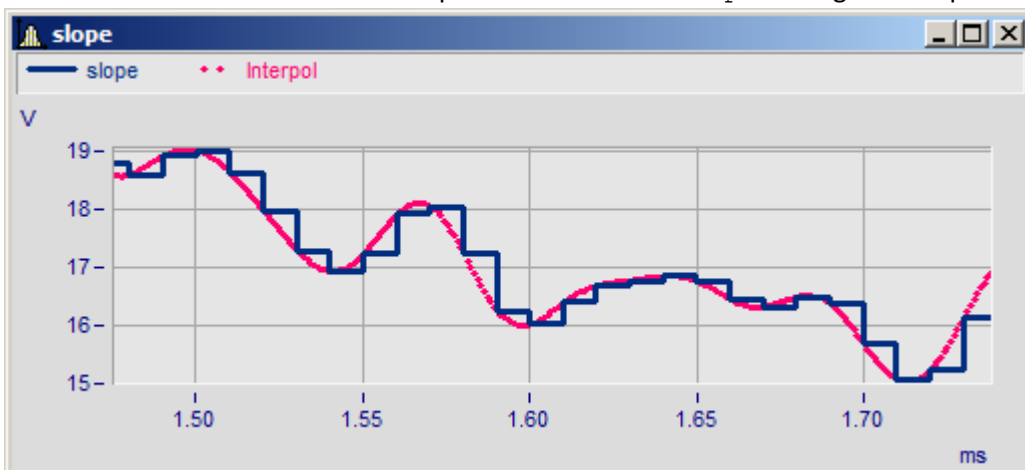
The same result can also be achieved using the previously discussed dialog "More channels in curve window", by selecting the y-axis in the axes list and clicking on the Delete icon.

Zoom into close range to see the dots clearly.

To make the two separate waveforms yet more distinct, display the data set *slope* (1st curve) in a stair-step display.

To do this, select the menu item "Configuration/Lines". From the axes list which appears at the left of the dialog, select the item "SLOPE".

Select "Steps" in the menu "Line type" selection list and then select <OK>. Zoom in the new curve display. Here, the function "IPol" was used to interpolate the data set *slope* through cubic splines.



Curve window with two curves in different display types

4.12 Changing a Formula

Change the formula to get a lower interpolation factor.

INTERPOL = **IPol**(**SLOPE**, 3)

There are two ways to do this:

Changing the formula in the Editor

Use either of the keys BACKSPACE or DELETE to delete characters and change the parameter.

To apply the change, press the key combination Ctrl + ENTER. Alternatively, activate the line by double-clicking and then click on the "Execute"-button. The curves displayed are updated.

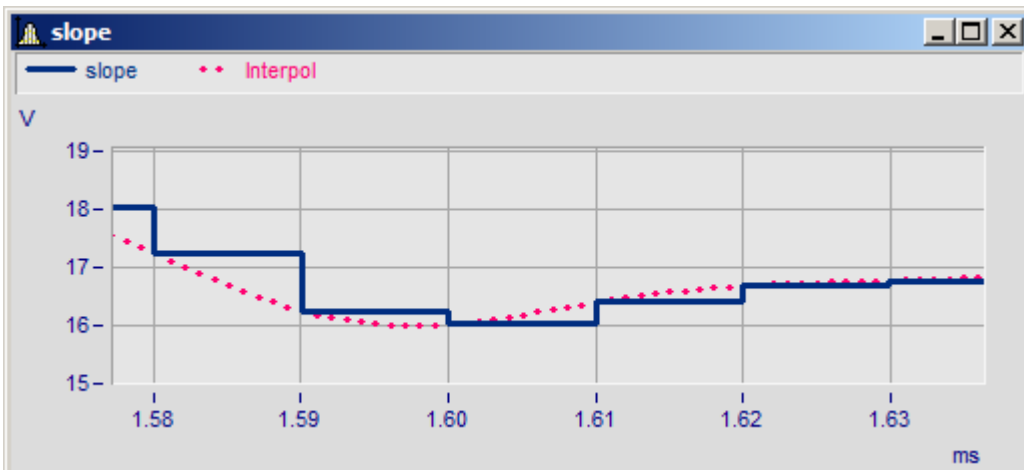
Calling the Formula Assistant from the Editor

Click on the function so that the cursor is on the blue letter. Press SHIFT + F1.

The screenshot shows the 'Ipol' dialog box. It has a title bar 'Ipol' with a close button. The description says 'Interpolate a waveform using a cubic spline.' There are three input fields: 'Interpolated waveform:' with a dropdown menu showing 'Interpol', 'Starting waveform:' with a dropdown menu showing 'slope', and 'Interpolation factor:' with a text box containing '3'. At the bottom, there are three buttons: 'Execute', 'Copy', and 'Close'. Below the buttons, the formula 'Interpol = Ipol(slope, 3)' is displayed.

Open Formula Assistant with SHIFT + F1

The Formula Assistant for the IPol() function appears with the parameters entered. The function is selected in the Editor. Change the parameter in the Assistant and click on "Execute". In the curve window, you can observe the change directly. If you are satisfied with the result, you can overwrite the line by clicking on "Copy" in the Editor.



Curve window with two curves in different display types

4.13 Single Values

Calculate the maximum of the data set *slope*. Enter the following formula in the Editor box on a new line:

Maxim = Max(SLOPE)

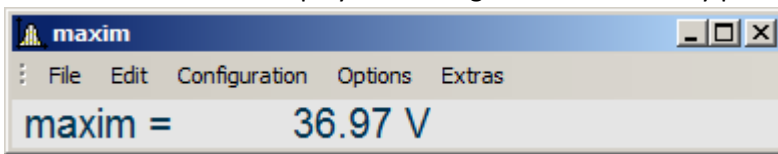
The function "Max" is found e.g. in the branch *Analysis\Statistics* of the Functions tree diagram.

After the formula has been executed by pressing "CTRL + RETURN", a further entry appears in the variable list:



The dice symbol shows that the value is a single value, occupying no extent of time, in contrast to the data sets *slope* and *interpol*. If the value of the variable "Maxim" is not displayed, activate the option "Single value: show content" in the dialog "Extra/ Options/ Variables list..."

The value can also be displayed in a single value window by pressing F4.



Single value window

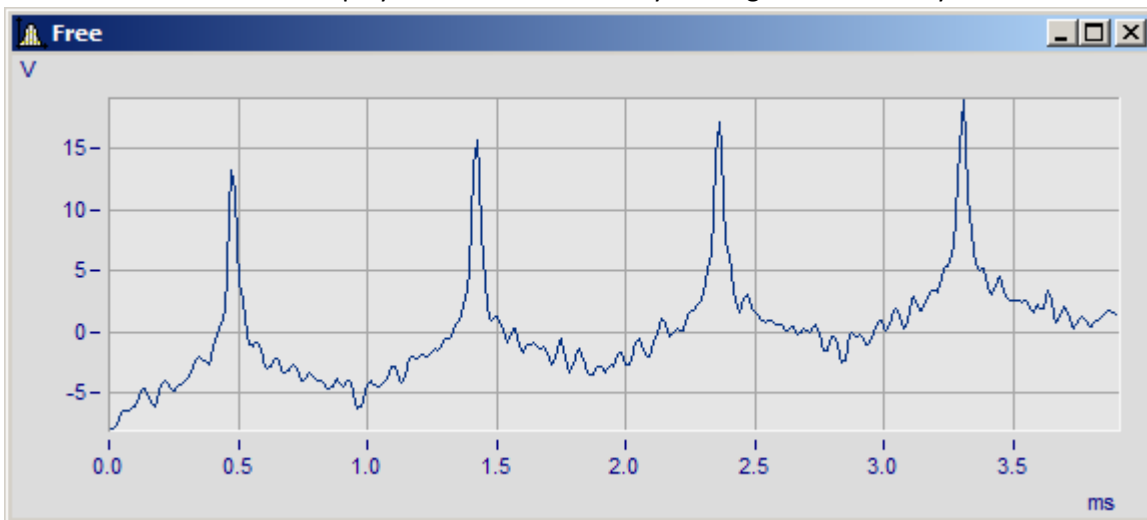
4.14 Calculations

A new data set is to be generated by reducing the data set *slope* by its mean value:

FREE = SLOPE - Mean(SLOPE)

The function "Mean" (e.g. in the branch *Analysis\Statistics\Standard* of the Functions tree diagram) calculates the arithmetic mean of the specified channel. This mean value is subtracted from the data set *slope*.

Execute this formula and display the data set "FREE" by clicking on the curve symbol in the tool bar.



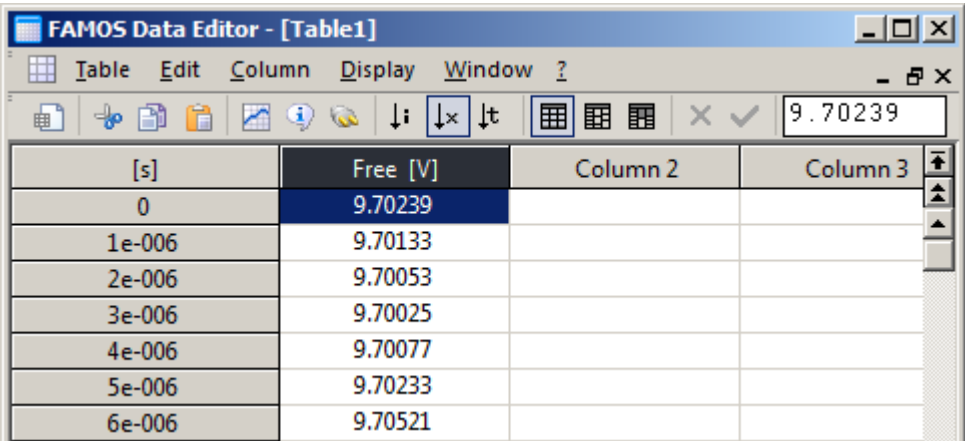
Curve window with one variable

You will notice that the waveform "FREE" has the same shape as the data set *slope*, but all its values have been decreased by the mean value of *slope*.

4.15 Data Editor

 Select "FREE" in the variable list, which you have previously generated in the [chapter Calculations](#)³¹. Then select the icon "Data Editor" in the Variables toolbar.

A new window appears. A table listing the individual numerical values of the data set "FREE" is found in the left column.



The screenshot shows the 'FAMOS Data Editor - [Table1]' window. It has a menu bar (Table, Edit, Column, Display, Window, ?) and a toolbar with various icons. A table is displayed with the following data:

[s]	Free [V]	Column 2	Column 3
0	9.70239		
1e-006	9.70133		
2e-006	9.70053		
3e-006	9.70025		
4e-006	9.70077		
5e-006	9.70233		
6e-006	9.70521		

Data Editor

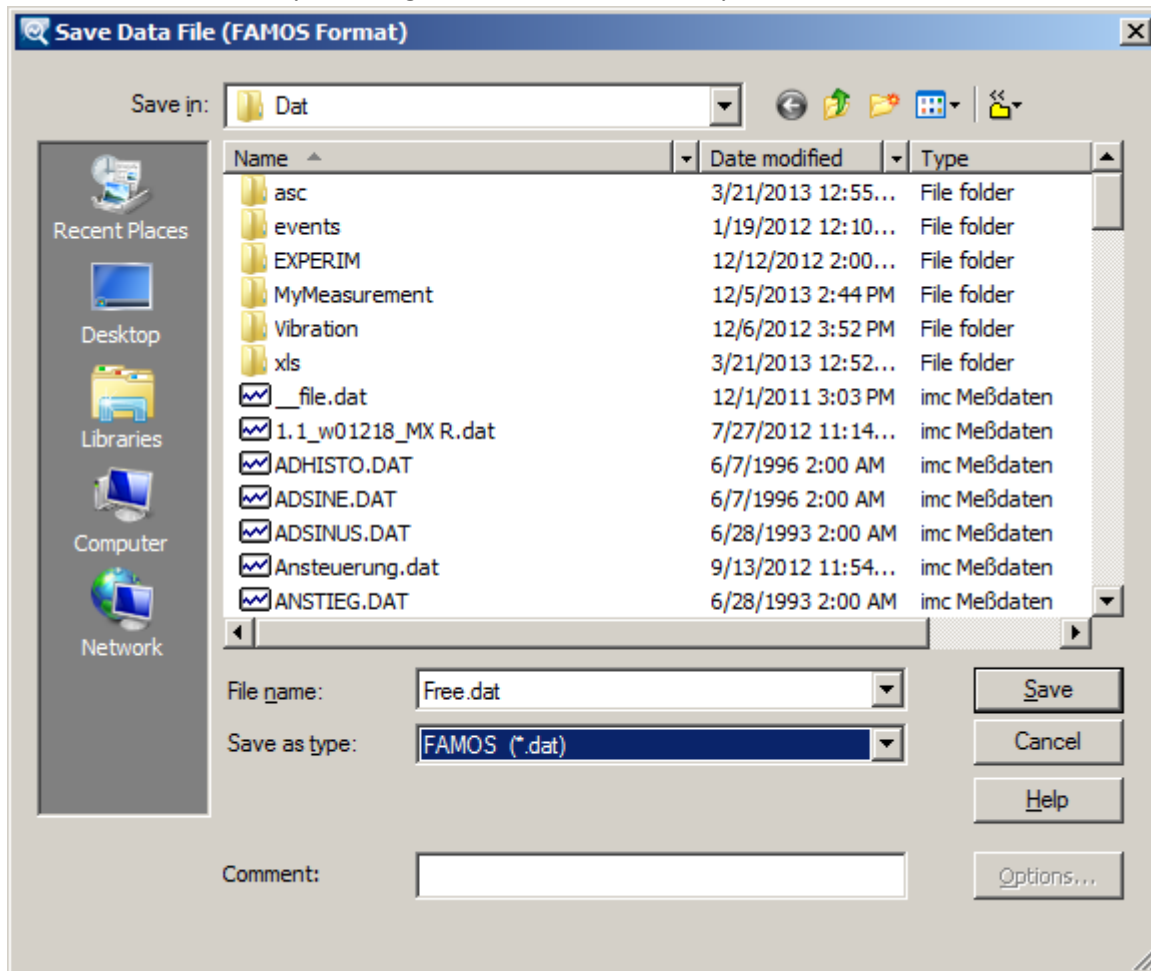
Use the scroll bar on the right side to view further numerical values. Close the window.

Reference

Chapter 'Data Editor'.

4.16 Saving results

Select "*FREE*" in the variable list and "*Save Individually...*" in the menu "*Variable*". A dialog box appears for entering a file name under which the variable should be stored. Set the file format to "*imc FAMOS*". The file "*FREE.DAT*" is created by selecting <Save>. This data set may be reloaded later.



Dialog "Save File"

Reference

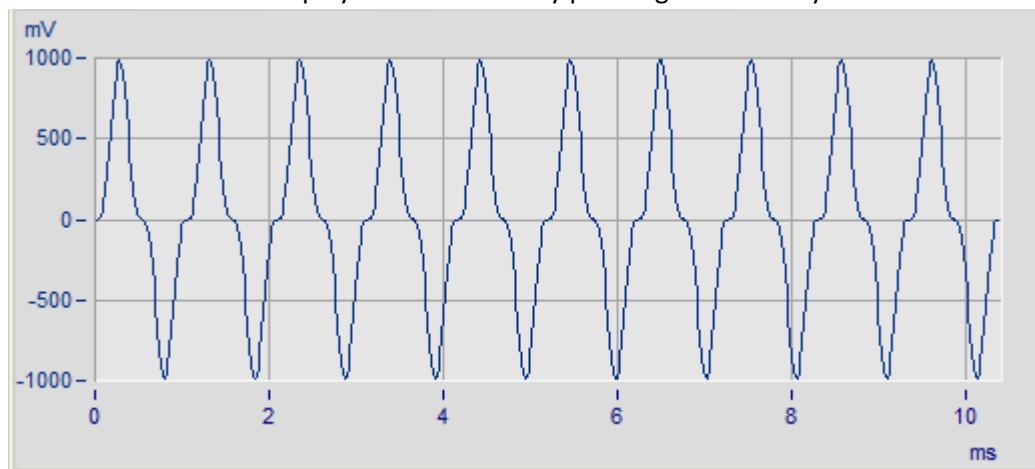
Chapter 'File Management'.

4.17 Deleting variables

The variables "*FREE*", "*Maxim*" and *interpol* are no longer needed and should be deleted from the Variables list. First select these variables in the Variables list, then select "*Delete*" in the menu "*Variable*". The only entry remaining is the variable *slope*.

4.18 Spectrum

Load file "SIN3.DAT". Display the waveform by pressing function key F4.



Curve window displaying variable "sin3"

The data set contains several periods of a sine-shaped signal, which has a strong third harmonic (second harmonic oscillation). The distortion of the signal around its zero passages is typical for such a curve.

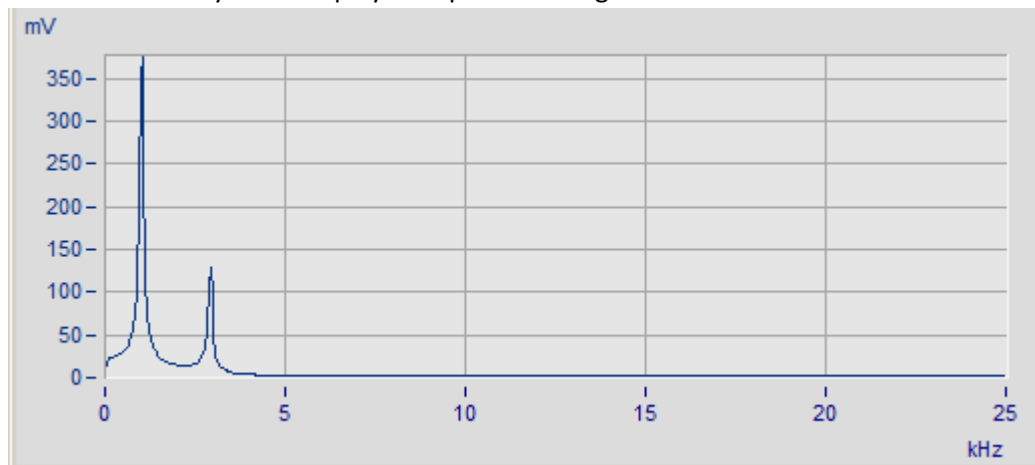
Enter the following formula to calculate the spectrum of the variable "SIN3":

`SPECTRUM = Spec(SIN3)`

The function "Spec" is found e.g. in the branch *Analysis\Spectral Analysis\General*. Double-click on this line in the functions list, as well as on the variable "SIN3" in the variable list. Complete the formula using the keyboard.

Execute the formula. "SPECTRUM (MP)" appears in the variables list. A complex variable was generated in Magnitude / Phase (MP) representation.

Press function key F4 to display the spectrum magnitude in the curve window.



Curve window displaying magnitude of spectrum

The magnitude of the spectrum exhibits a strong fundamental wave and a somewhat smaller second harmonic oscillation.

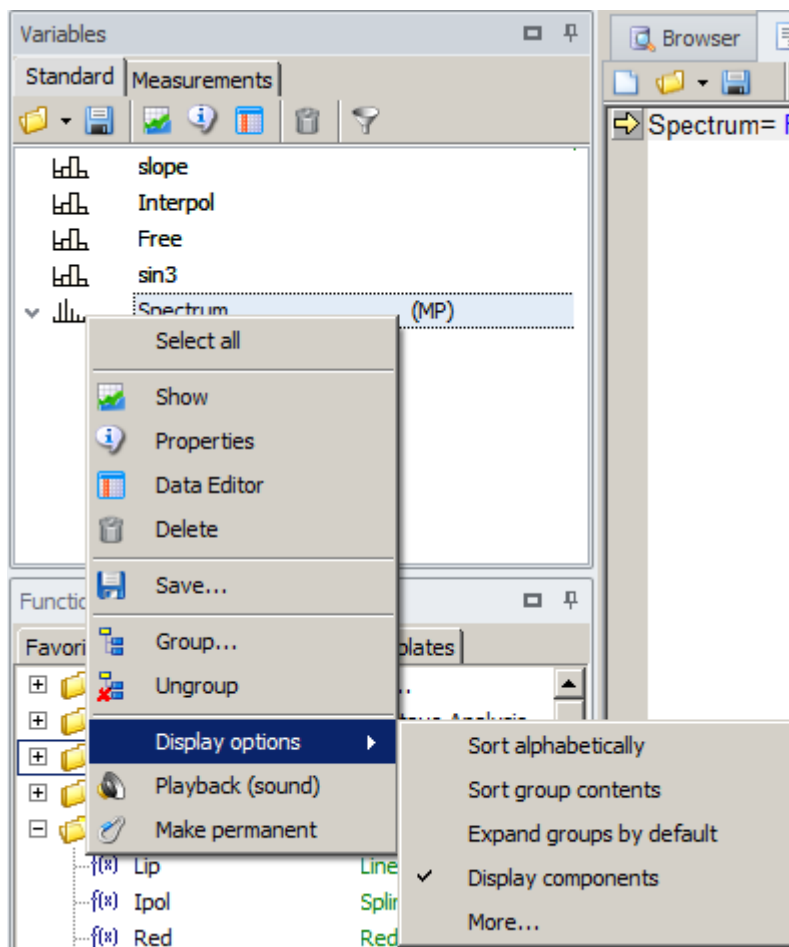
Note that the fundamental wave has a somewhat smaller amplitude than the signal "SIN3". The amplitudes of the oscillations correspond to those which would be exhibited by a selective voltmeter.

Note

The Spec function is based on Fast-Fourier-Transformation, which is the function FFT() in the same group. These calculations normally require additional parameters such as windows and window widths. As a quick way to enter the parameters, they are entered globally under Options. There, you will set up the data window and decide whether to interpolate the data set to obtain a number of points which is the nearest power of 2, or to fill the data set with zeroes. In the example, the window was set to "Square" and "Fill with zeroes" was deactivated.

4.19 Complex data sets

If "Spectrum.M" and "Spectrum.P" are not indicated in the Variables list, move the mouse pointer into the variable box and right-click the mouse. Click on "Show Components" in the context menu.



This menu item is checkmarked if and when it is active. Additional entries now appear in the Variables list: "SPECTRUM.M" and "SPECTRUM.P". These are the magnitude and phase components, respectively, of the complex data set.

Select the entry "*SPECTRUM.P*" in the Variables list by clicking once. Press function key F4 to display the phase of the spectrum in a curve window.

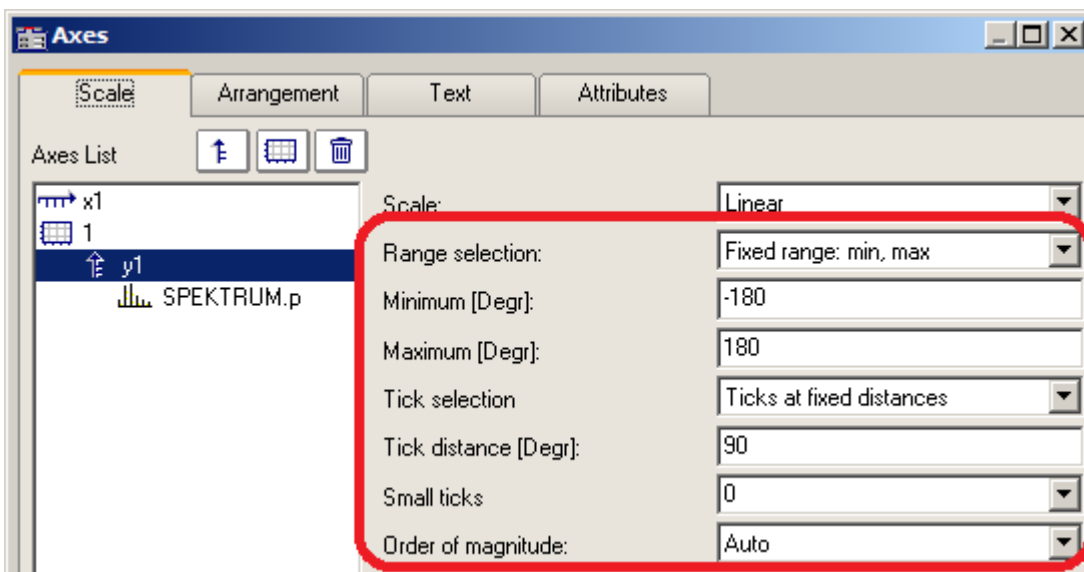


Curve window with phase of spectrum, unscaled

The phase spectrum should be displayed from -180° to $+180^{\circ}$.

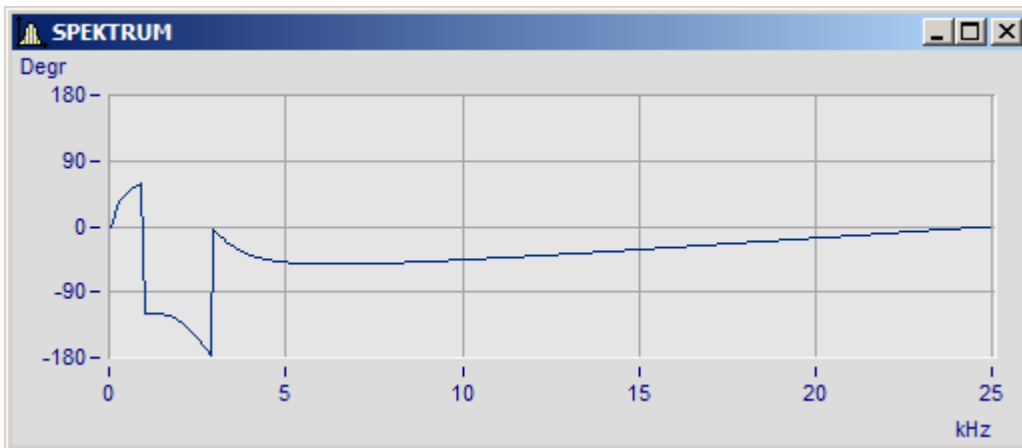
Double-click in the space between the y-axis labeling in the curve window *SPECTRUM.P*. A dialog appears for scaling the y-axis.

Under "*Range selection*", select "*Fixed Range: min, max*" from the menu "*Range*", and enter in the corresponding text boxes *Minimum* = -180 degrees, *Maximum* = 180 degrees and *Tick selection* = "*Ticks at fixed distances*" "*Tick distance*" = 90.



Dialog for scaling the y-axis

Click on <OK> to close the dialog.



Curve window with phase of spectrum, scaled

imc FAMOS now attempts to display the specified range from -180° to $+180^\circ$ with appropriate axis labels.

4.20 Creating sequences

A sequence (also called a macro) is a series of operations which imc FAMOS executes automatically in the specified order. Frequently used series of operations can be automated by creating sequences.

Suppose, for example, the "frequency" of signal "SIN3" is to be found. Here we will define the "frequency" as the maximum oscillation occurring in the spectrum of the signal.

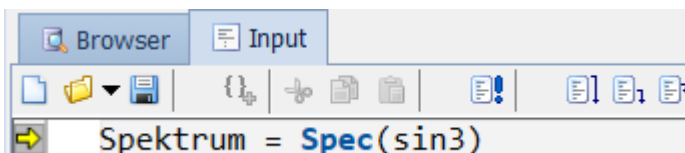
First open a new, empty sequence. Right-click the mouse over the Editor box's title bar and select the item "New" in the context menu which then appears. Alternatively, you can use the combination of keys "CTRL"+"N" or the corresponding icon at the upper left of the Editor box's toolbar.

A new tab then appears in the Editor box's title bar, "Unnamed0". This is then active and the sequence it pertains to (which is empty at the moment) is displayed. Any other sequences, whether newly created or already opened, would be displayed in the same way; to move between sequences, simply click on the tab in the title bar which is associated with the sequence desired.

First, activate the standard Editor box (the tab all the way to the left) and select the previously entered formula

`SPECTRUM = Spec(SIN3)`

using the mouse. Via the context menu or by means of "CTRL"+"C", copy the formula text to the Windows Clipboard. Switch back to the new sequence and enter the formula text into the sequence as the first line by way of the context menu or "CTRL"+"V".



Sequence Editor (with command)

Now enter the following formula in the next line:

```
Freq = Pos( spectrum.m, Max (spectrum.m) )
```

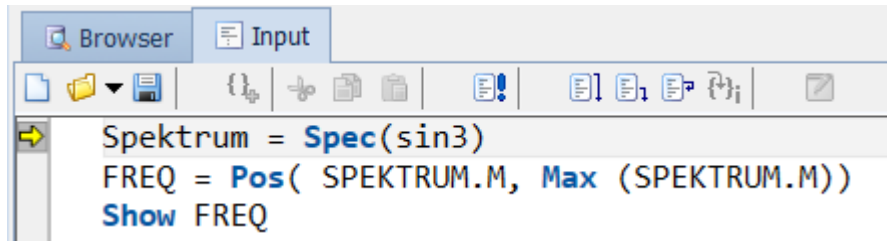
The x-position of the spectrum's maximum magnitude is determined. Execute this formula once as a test by double-clicking in the command line and then clicking on the arrow key (appearing at the left of the command currently in readiness), or alternatively, **CTRL + ENTER**. Correct any errors if an error message appears.

Now enter the line

```
SHOW freq
```

in the text window. This command displays the variable "FREQ" in the curve window.

You have created a sequence consisting of three commands.



Sequence Editor

4.21 Executing sequences

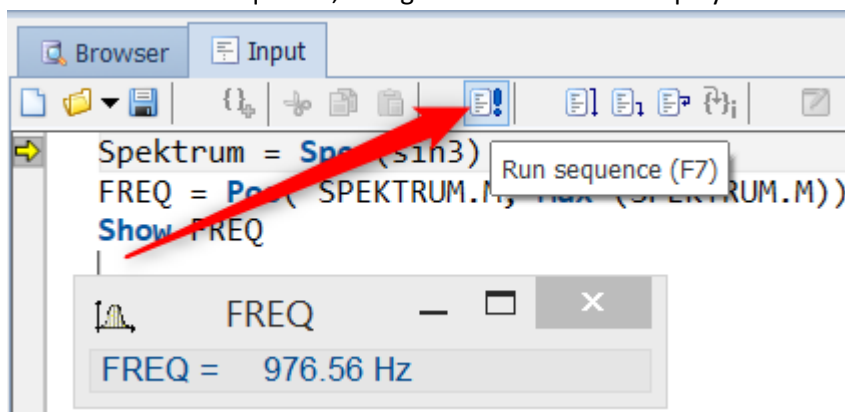
First delete the variables created in the sequence.

Select entries "SPECTRUM...MP" and (if present) "FREQ" and then select "Delete" in the menu "Variable".

Now select from the context menu (accessed by right-clicking the mouse over the Editor box's title bar) the menu item "Execute". Here, too, you have the alternative to use the keyboard ("F7") or the corresponding icon in the editor box's toolbar.

The sequence is now carried out, starting from the first line.

At the end of the sequence, a single value window is displayed indicating the calculated frequency.



Single value

4.22 Changing sequences

The procedure introduced for determining the frequency works only for signals with a relatively small offset. Therefore, the signal's mean value shall be removed.

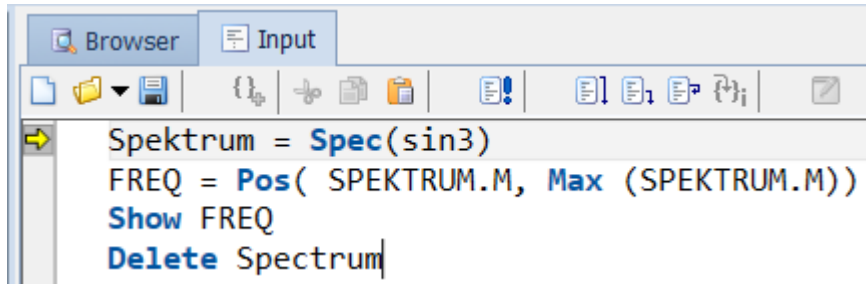
Change the first line in the Sequence Editor as follows:

```
SPECTRUM = Spec( SIN3 - Mean(SIN3) )
```

The calculated data set "SPECTRUM" should automatically be deleted because it is used as an intermediate result in the sequence. Enter the following line at the end of the Editor box:

```
Delete spectrum
```

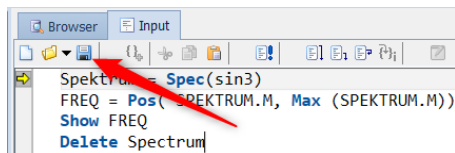
Restart the sequence.



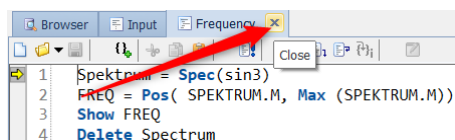
Sequence-editor

4.23 Saving sequences

Select the menu item "File" / "Save" or right-click the mouse on "Input" and then "Save As...". Save the sequence under the name "Frequency.SEQ".



Alternatively, you can save the sequence by clicking on the diskette icon in the Editor.



Close the sequence you just made by clicking on "X", or select the context menu item "Close".

You can now run the saved sequence directly. To do this, enter the command:

```
SEQUENCE Frequency.SEQ
```

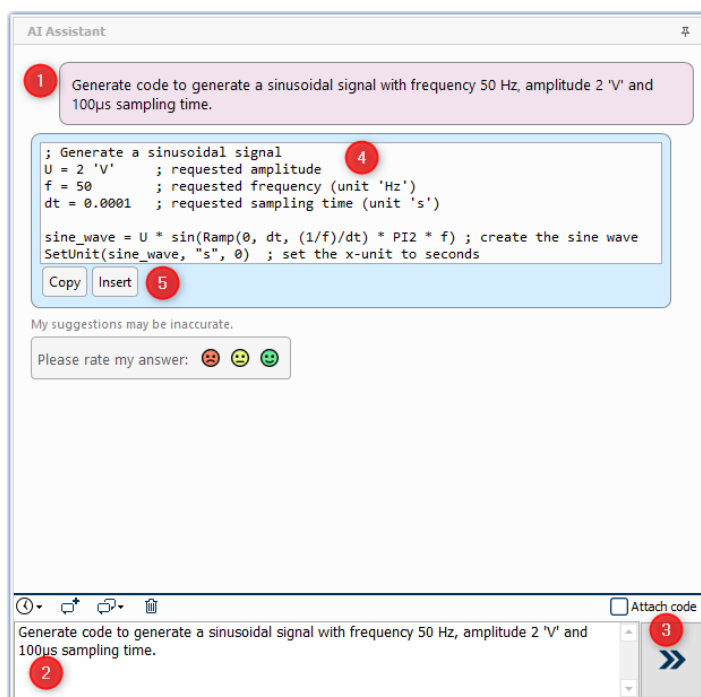
The file "Frequency.SEQ" is opened in the background and the sequence it contains is executed.

4.24 AI-Assistant

The FAMOS AI assistant supports you in programming sequences and helps with general questions about the operation of FAMOS. As with other AI assistance systems, communication takes the form of a written dialog ("chat"). You formulate your question in text form, receive the answer in text form and, if necessary, can refine the assistant's answers step by step and tailor them to your problem by asking further questions.

The AI assistant is available in the **Professional and Enterprise editions** and requires an Internet connection. The required services and applications are made available within Microsoft's Azure cloud platform.

The AI assistant has the status "**experimental**" in version 2025 and is in constant and progressive further development. imc reserves the right to temporarily switch off the service for maintenance purposes and therefore does not guarantee 100% availability.



The AI tool window contains the display of the current call history ❶ in the upper area. Below this is the input window ❷, in which you can formulate your requests. To the right of the input window, you will find the "Send" button ❸, which you can use to send the current request in the input window to the assistant.

The Assistant's response may contain sections that contain direct sequence code (highlighted in gray ❹). Right-click in these sections to open a context menu with the usual text processing commands such as "Copy"/"Paste"/"Delete".

Below the code sections you will find the "Copy" and "Insert" buttons ❺. "Copy" copies the entire code to the Windows clipboard, from where it can be inserted into other programs or FAMOS itself using "Paste". With "Paste", the code is inserted into the active sequence editor window (if an area is selected there, the selection is replaced, otherwise it is inserted at the cursor position).



Reference

AI-Assistant

Please read the detailed description in the **FAMOS manual** to find out more about the functions and possibilities of the Assistant.

4.25 Creating documentation with Panels

After analysis of the measured data, documenting the results is usually the next step. This means not only saving the file, but also the creation of various documents (either digital or hard copy) for the saving and presentation of the results.



Create a report page for documentation of results.

Procedure



Load the data set **slope** and use the following command lines to obtain its statistics values:

FAMOS

LOAD slope

Maximum = **Max**(slope) ; **Group: Analysis > Statistics > Generic**

Minimum = **Min**(slope)

MeanValue = **Mean**(slope)



- Create a Report page as a Panel. Go to the menu item *File-> New-> New Panel-> Report (Portrait)*.
- In the tool window at the bottom left, select *Standard>Label* and then in the Report page drag open a frame for it (holding down the left mouse button).
- Next, leave the tool window and go to the Properties window. In the text box under the item Text, enter a title for your report. Under Font, you can alter the font and font size.
- Go to the page *Edit* under *General* and use "*Insert Widget*" > *Standard > Image* to add a placeholder for an image to the report. In the Properties window under *Image*, select a picture or logo on your hard drive and have it displayed.
- In the Standard variables list, highlight the channel "slope", drag it to an empty area in your report and release the left mouse button there. Select Standard for a standard curve window.
- Select the results Maximum, Minimum and MeanValue in the Variables list and drag them together to below the curve window of the channel "slope". After releasing the left mouse button, select the option "*Numerical*".
- To see the complete page, right-click at the bottom right in the Zoom box on the rectangle.



Save this page as part of the Panel using *File -> Save* and assign it the filename **FirstPanel.panel**.



Export the report as a PDF using *File -> Export as PDF* under the name **PDFReport.pdf**.

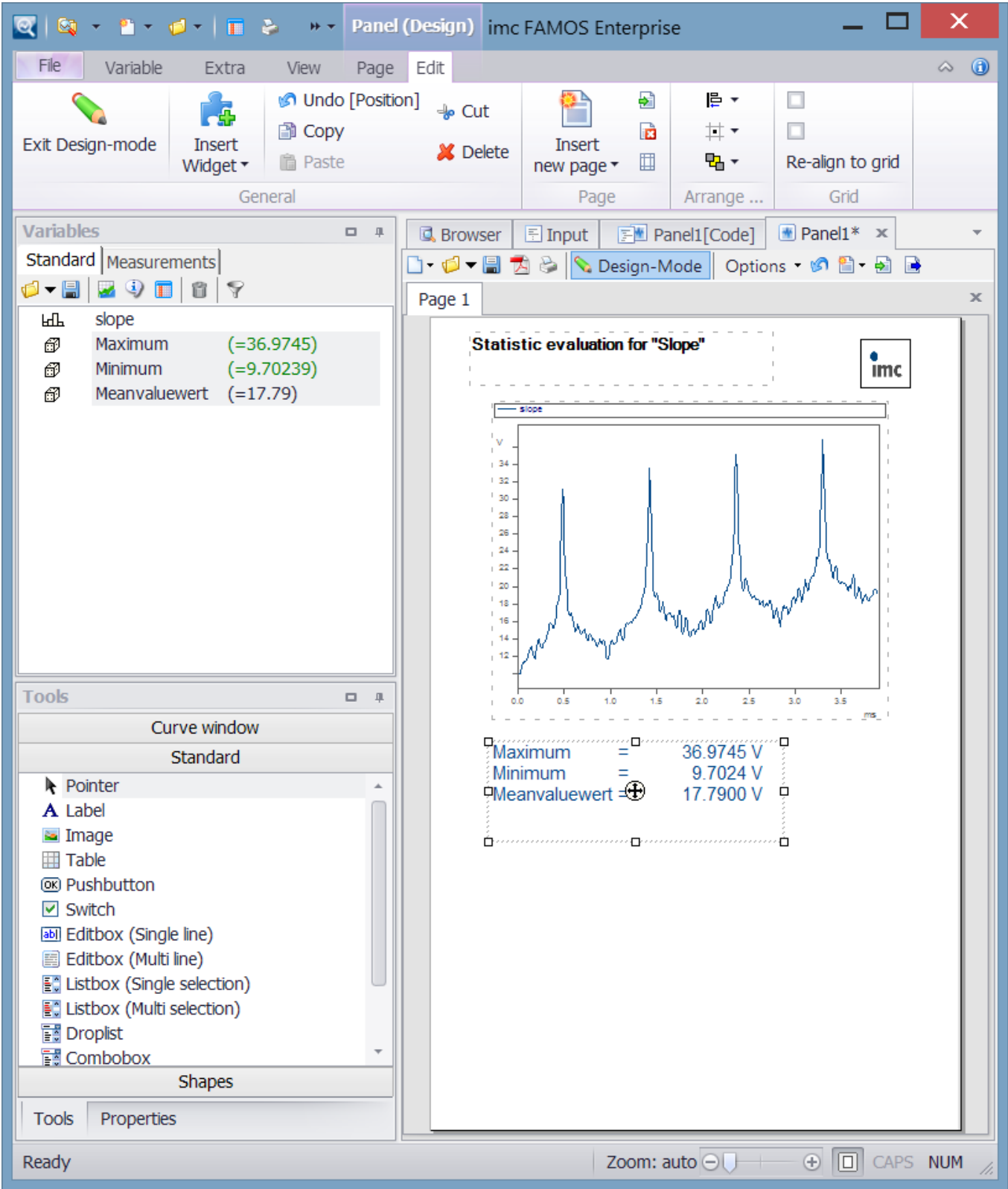
Result



You have created a report which was also exported as a DIN-A4 page PDF.



Within a Panel, you can also create multi-page reports and of course export all of them in PDF.



4.26 Favorites

Formulas or sequences used frequently can be entered into a list of favorites, in order to save on time spent typing.

Open the context menu by right-clicking the mouse over the list and select the menu item "New Entry". In the dialog which then appears, enter a short, descriptive name under "Caption", e.g. "1/3-octave analysis". The actual text is entered in the *Statement* box. You can, for example, enter the formula manually, or use "Copy" and "Paste" to get it from the editor box, or even easier, use the formula input box's context menu to transfer in the currently active line in the editor box. Now you can also enter a short description and a help text.

Dialog for definition of "Favorites"

The option "Execute!" ensures that the entry will be executed upon double-clicking on it.

The new entry is now shown in the Favorites list; double-clicking on it is enough to have the sequence "Third_Octave.SEQ" carried out.

Reference

Chapter 'User Interface', Section 'Administering Favorites'

**You have now successfully completed the Tutorial.
We wish you much success in working with imc FAMOS .**

Index

A

- adjustment 6
- AI-Assistant
 - AI tool window 40
 - requirements 40
- arithmetic mean
 - waveform 31

C

- calibration 6
- CE Certification 6
- Certificates 6
- Change requests 5
- complex data sets
 - curve window 35
- create
 - sequence 37
- cubic splines
 - curve window 26
- curve window 26
 - adding more data sets 26
 - measure 22
 - more curves in window 26
 - phase spectrum 35
 - rezoom 21
 - scaling 35
 - zoom 20
- Customer support
 - Tech support 5

D

- Data-Editor
 - extra menu 32
- default
 - folders setting 18
- dialog
 - default directories 18
 - Define favorites 43
 - load file 19
 - properties (variables) 23
- DIN-EN-ISO-9001 6
- display
 - single value 31
 - spline 26
- display options
 - complex data sets 35
- Dokumentation 41
- Dongle 14

E

- edit
 - a formula 30
 - a line 30
 - sequence 39
- editor box 16
- execute 38
 - button (sequences) 24
 - sequence 38
- extra menu
 - Data-Editor 32

F

- F7 38
- FAMOS
 - installation 11
 - start 14
- favorites 43
- File
 - save 33
- File Browser (6.3) 16
- file menu (main window)
 - load 19
- folders 18
- formula
 - edit 30
- function
 - IPol (example) 24
 - max (example) 31
 - Mean (example) 31
 - pos (example) 37
 - spec (example) 34
- functions list 16

G

- General terms and conditions 6
- Getting started 15
- Guarantee 6

H

- Hardware-Dongle 14
- harmonics 34
- Hotline
 - Tech support 5

I

- imc FAMOS
 - start 14
- imc Software License Agreement 7
- installation imc FAMOS 11
- interpolation

interpolation
 example 24
IPol (function)
 example 24
ISO-9001 6

L

Liability restrictions 6
License Manager 14
Limited Warranty 6
load file 19

M

magnitude 34
maintenance 6
max (function)
 example 31
mean value
 example 31
 waveform 31
measure
 curve window 22
menu "File"
 load 19
menu "Variable"
 properties 23
 save individual 33
menu Variables
 delete 33
more channels...
 in curve window 26

O

options
 folders 18
output window 16

P

Panel 41
phase spectrum
 curve window 35
plug-in
 window 16
pos function
 example 37
Product improvement 5
properties
 variables 23

Q

Quality Management 6

R

repair 6
rezoom
 curve window 21
run
 sequence 38

S

save 39
save file
 FAMOS 33
scaling
 y-axis 35
sequence
 edit 39
Service
 Tech support 5
service and maintenance 6
service check 6
setting
 default folders 18
setup 11
show (variables) 20
show together (variables) 20
single value
 curve window 31
 window 31
spec (function) 37
 example 34
spectrum 34
spline
 curve window 26
start
 application 16
System requirements 11

T

Tech support 5
Telephone numbers
 Tech support 5
tutorial 15

V

variable
 properties 23
variable menu
 delete 33
variables
 deleting 33
 show 20

variables list 16

W

Warranty 6

Z

zoom

curve window 20



An Axiometrix Solutions Brand

Contact imc

Address

imc Test & Measurement GmbH
Voltastr. 5
13355 Berlin

Phone: (Germany): +49 30 467090-0

E-Mail: info@imc-tm.de

Internet: <https://www.imc-tm.com>

Tech support

If you have problems or questions, please contact our tech support:

Phone: (Germany): +49 30 467090-26

E-Mail: hotline@imc-tm.de

Internet: <https://www.imc-tm.com/service-training/>

Service and maintenance

Our service team is at your disposal for service and maintenance inquiries:

Phone: (Germany): +49 30 629396-333

E-Mail: imc-service@axiomatrixsolutions.com

Internet: <https://www.imc-tm.com/service>

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The safe handling of measurement devices requires a good knowledge of the system. At our training center, experienced specialists are here to share their knowledge.

E-Mail: schulung@imc-tm.de

Internet: <https://www.imc-tm.com/service-training/imc-academy>

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