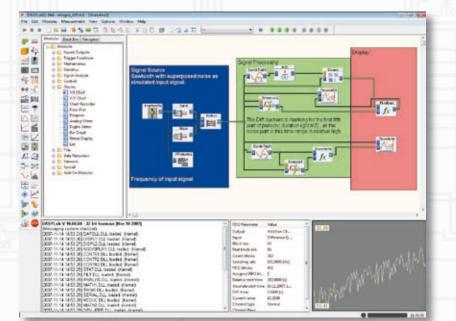


easy-to-use – flexible – powerful

DASYLab Window



Worksheet

The worksheet is where you create the data flow logic for the application. Select and combine the desired function modules and connect them with wires that represent the data flow.

The browser window displays a tree structure containing all available function modules as well as any saved block boxes. It also contains a navigator to quickly find specific modules in a worksheet. The console window displays graphical and numerical information about content and structure of the data flow.

Displays

A

Signal Analysis



n-max

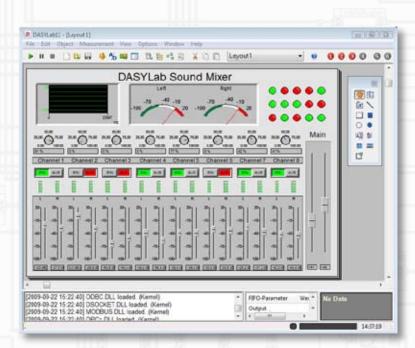
Octav F

Function Modules

No programming required! Configure your experiment setup easily using the drag'n'drop capability of DASYLab. Pick up the required Function Module from your favorite Modules of the module bar or use the tree of the browser window.

Dialogs

Also here you don't need any programming! Configure modules easily using the Module Properties dialog boxes. Easily specify the capability of each function block, the number of channels and the parameter settings.

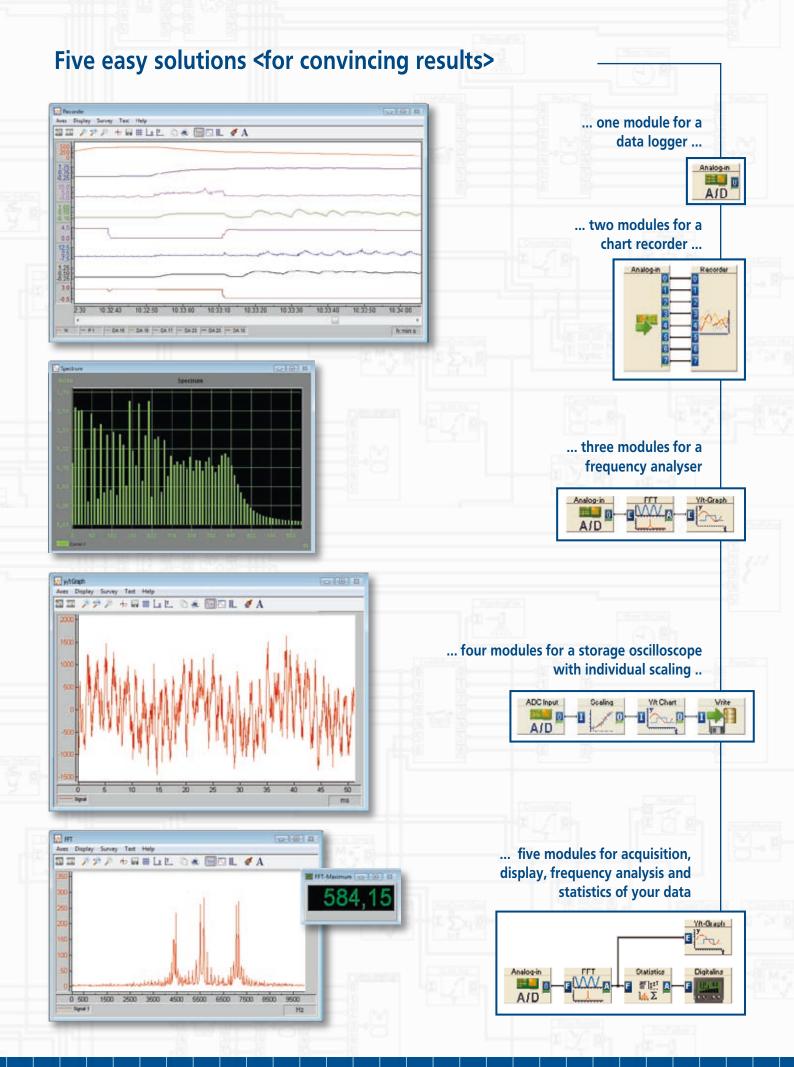


IFT: Real FFT of a Real Siz FETOD Madden OK. Channel name Unit 10 Carcel Help: dB.Evaluatio Function Activate Fourier anal Amplitude spe-Harrison Power spectrum - Marco Made Power density sp un in al blocks C Phase spectrum Value Operations Suppress DC component FFT without the power of t Fileing e Di C Integate O Differentiale O Differentiate 2x C Integate 2x

Layouts

Use the layout view to create the operator interface to work with your application and to define the structure and content of professional reports. For each application you have 200 pages to display your data and results.

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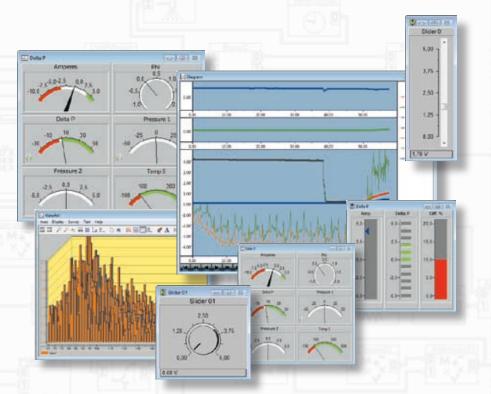
DASYLab Display Options

Displays

Use the different displays in DASYLab to represent your data online. Interactively zoom and view cursor measurements on or off-line...

Input Modules

Use the different function modules to create in Lavout Windows or on the worksheet screen sliders, switches, or other interactive elements to allow the user changing parameters and values while experiment is running.



Layouts and Reports Protocol pressure measurement AWR12 Use the DASYLab VI-Tool to create a clear and informative presentation of your data and results. Represent your data in scope displays, numerical listings, chart recorders or bar graphs, just by placing the cor-Test perfo ned by : Sch responding objects in the layout and connecting them to the worksheet modules. Use text or graphical elements to enhance the clarity and use-Signa ability of your application. 1,00 0.00 Pressure control on AWR 12 1.00 0.00 2,00 1,00 Charts 0.00 1,00 0.00 15.0 7.5 0,0 11:26:05 11:28:15 11,26,25 11:26 **DASYLab** 10008 130400 13048 13548 13642 13642 136420 135426 135480 136480 13648 Calculation Graph

print



stop

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DASYLab Features

You can choose between four different DASYLab Versions to get exactly the features that you need. The light version contains the basic functions for PC-based data acquisition and representation. The basic version comes with additional mathematical and statistical functions as well as basic control modules. The full version comes with additional blocks for automation of measurement and analysis tasks. The professional version contains the network functionality, frequency and Rainflow analysis as well as a setpoint generator module.

Functional Group	-ite	Basic	In:	Pro
Trigger Functions				
Pre/Post Trigger	•	•	•	•
Start/Stop Trigger	0	•	•	•
Combi Trigger	0	•	•	•
Sample Trigger	0	•	•	•
Trigger on Demand	0	•	•	•
Relay	•	•	•	•
Mathematics				
Formula Module	0	•	•	•
Arithmetic	•	•	•	•
Comparator	•	•	•	•
Trigonometry	0	•	•	•
Scaling	•	•	•	•
Differentiation/Integration	0	•	•	•
Logical Operations	0	•	•	•
Bit Logic	0	•	•	•
FlipFlop	0	•	•	•
Gray Code	0	•	•	•
Slope Limitation	0	•	•	•
Reference Curve	0	•	٠	•
Reference Curve Statistics	0	•	•	•
	0	•	•	•
Statistics		•	•	•
Statistics Statical Values	0	•	•	•
Statistics Statical Values Position in Signal	0	• • • •	• • • •	• • • •
Statistics Statical Values Position in Signal Histogram	0 0	• • • • • •	• • • • +	•
Statistics Statical Values Position in Signal Histogram Rainflow	0 0 0	-	• • • + •	•
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel Counting	0 0 0 0	-	• • • • • •	• • • • • • • • • • • • • • • • • • • •
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegression	0 0 0 0	-	• • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounter	0 0 0 0 0	-	• • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM Analysis	0 0 0 0 0 0	-	• • • • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference Curve	0 0 0 0 0 0 0 0	-	• • • • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort Channels	0 0 0 0 0 0 0 0 0	-	• • • • • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference Curve	0 0 0 0 0 0 0 0 0	-	• • • • • • • • • • • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference CurveSignal Analysis	0 0 0 0 0 0 0 0 0	-	 • •<	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference CurveSignal AnalysisFilter	0 0 0 0 0 0 0 0 0 0	-	• • • • • • • • • • • • • • • • • •	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference CurveSignal AnalysisFilterCorrelation		-	 • •<	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference CurveSignal AnalysisFilterCorrelationData Window		-	 • •<	
StatisticsStatical ValuesPosition in SignalHistogramRainflowTwo Channel CountingRegressionCounterPWM AnalysisMin/MaxSort ChannelsCheck Reference CurveSignal AnalysisFilterCorrelationData WindowFFT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-		

- 10	1	-		
Functional Group	Lite	Basic	Full	Pro
n-Harmonic	0	0		_
Elektric	0	0	•	•
Harmonic Distortion	0	0	•	•
Period Check	0	0	•	•
Third Analysis	0	0	+	•
Control				
Sequence Generator	0	0	*	•
Generator	•	•	•	•
Switch	0	•	•	•
Slider	0	•	•	•
Coded Switch	0	•	•	•
PID Control	0	•	•	•
Two-Point Control	0	•	•	•
Time Delay	0	•	•	•
Latch	0	•	•	•
Signal Router	0	•	•	•
TTL Pulse Generator	0	•	•	•
Stop	0	•	•	•
Global Variable Read	•	•	•	•
Global Variable Set	•	•	•	•
Blocktime Info	•	•	•	•
Display				
Y/t Graph	•	•	•	•
X/Y Graph	0	•	•	•
Chart Recorder	•	•	•	•
Polar-Plot	0	•	•	•
Analog Meter	•	٠	•	•
Digital Meter	•	•	•	•
Bar Graph	•	•	•	•
Status Lamp	•	•	•	•
Diagram	•	•	•	•
List Display	•	•	•	•
Files				
Read Data	•	•	•	•
Write Data	•	•	•	•
Backup Data	0	0	•	•
ODBC Input	0	0	•	•
ODBC Output	0	0	•	•

Functional Group	Lite	Basic	Full	Pro
Data Reduction		-		
Average	•	•	•	•
Block Average /Peak Hold	•	•	•	•
Separate	0	•	•	•
Merge/Expand	0	•	•	•
Shift Register	•	•	•	•
Cut Out	0	•	•	•
Time Slice	0	•	•	•
Circular Buffer	0	0	•	•
Network				
Net Input	0	0	,A	•
Net Output	0	0		•
Message Input	0	0	*	•
Message Output	0	0	. %	•
Data-Socket Import	0	•	•	•
Data-Socket Export	0	•	•	•
Special				
New Black Box	0	•	•	•
Black Box Export/Import	0	•	•	•
Action	0	0	•	•
Message	0	0	•	•
Send E-mail	0	0	•	•
Time Base	0	•	•	•
Signal Adaption	0	•	•	•
Add-on Modules				
Convolution	0	0	+	•
Weight	0	0	+	•
Transfer	0	0	+	•
Universal Filter	0	0	+	•
Save Universal File	0	0	+	•
ISO 8041 Module	0	0	*	*
Sound Level Meter	0	0	*	*
Sound Power Meter	0	0	*	*
Program Options				
Sequencer	0	0	•	•
Number on VI-Tool pages	1	1	200	200
ASYLab Lite Version is restricted to 64 data ch	nann	els		
egend				
Included in this version Not included in this version			_	•
Available as part of Analysis Toolkit Addon			_	+
Available as individual Add-on module			_	*

Only available in Net version

info@dasylab.com

DASYLab Extensions

Analysis Toolkit

The analysis toolkit contains a group of modules to analyse a signal in the frequency domain: Octave and third octave analysis, transfer functions, different kinds of filters as well as signal energy calculation.

Sequence Generator

The Sequence generator module gives you the tools to easily create setpoint signals for control applications. Curves and ramps of different shapes can be combined to create custom waveforms.

Net Option

The network communication modules allow fast data and information transfer between different DASYLab applications via TCP/IP.

Vibration Impact on Human Body

This extension contains the complete analysis and weighting for vibration impact on the human body generated by machines according to ISO 8041.

Blocküberschrift

Sound level and sound power calculation according to the appropriate ISO norms are the central analysis modules of this extension.

Driver Toolkit

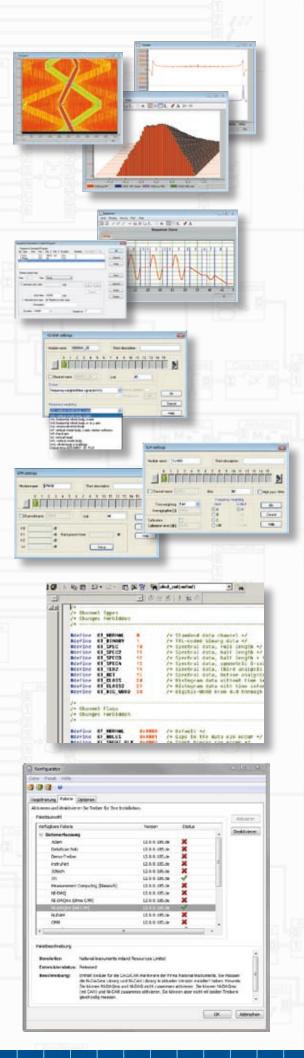
Have your own hardware? The driver toolkit allows you to include any kind of data source in DASYLab. It contains the complete API to develop your own drivers using Microsoft C.

Extension Toolkit

Need a custom function? Use the extension toolkit to add modules to DASYLab using Microsoft C. Use the working examples as the basis for your modules.

DASYLab Configurator

Use the configurator to configure the DASYLab installation according to your tasks. You can to register driver for new hardware, to activate the evaluation version with a valid license number, or to upgrade DASYLab. The configurator lists all packages available on your computer. The list includes different hardware drivers and field bus systems. The status indicates whether a package already belongs to the DASYLab installation and the version number indicates how recent the package is. Enable/disable the selected package in DASYLab with one click or remove the selected package from DASYLab. You can import packages which you receive from third-party manufacturers or which you download from the web. Packages contain, for example, all files for a driver, a function extension, or special worksheet collections. You also can update packages because a package with a higher version number can replace the earlier package. DASYLab developers can also use the configurator to create their own packages. Use the package definition, to define files and the actions you need for the installation of your functions.



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DASYLab Interfaces

DASYLab supports a wide variety of different data acquisition devices using any kind of available interface to the PC. Whether you have stationary, mobile or in-vehicle application, DASYLab will support the appropriate sources.

Software Interfaces

Analog Input Multispeed

Analog Output Multispeed

Digital Input Multispeed

Digital Output Multispeed

Analog Input

Analog Output

Digital Input

Digital Output

Counter Input Frequency Output DataSocket Import DataSocket Export

DDE DDE Input DDE Output RS232

RS232 Input RS232 Output

ICom Input (TCP/IP)

ICom Output (TCP/IP)

ICom

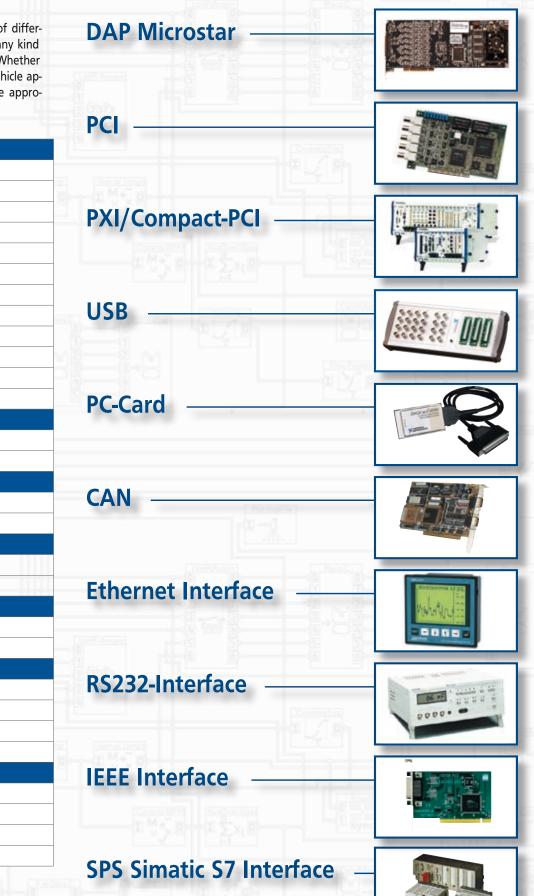
IEEE 488 ieee488 Input

IVI

ieee488 Output

IVI Counter IVI DCPower IVI DMM IVI Switch

ModBus Analog Input Analog Output Digital Input Digital Output





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