

DynoWare

Туре 2825А...

Software for Data Acquisition and Evaluation

Kistler DynoWare is a universal and easy to use software, which is particularly suitable for force measurements with dynamometers or single and multi-component force sensors.

- Simple operation
- Configuration and control of Kistler measuring instruments via RS-232C or IEEE-488
- Powerful graphics functions
- Useful signal evaluation and calculation functions
- Simultaneous recording of up to 8 measuring channels
- The software is ideal for the acquisition and evaluation of physical measurands

Description

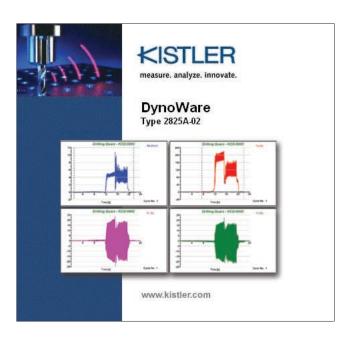
For signal analysis, DynoWare offers the technician online visualization of the measured curves together with useful calculation and graphics functions. Apart from simple configuration of the most important measuring instruments, this software supports individual documentation of the measurement, along with storage of configuration data and measured data. The signal evaluation also enables compensation of undesirable signal drift due, for example, to undue influence of temperature.

As a new feature, the signal frequency and integral of the measured curve can be determined with the powerful cursor function.

Application

DynoWare is the data acquisition software of choice for cutting force measurement. It supports both stationary and rotary measuring systems from Kistler.

However, DynoWare can also be used for any reaction force measurements or crash measurements with Kistler multicomponent dynamometers. At the same time, the measured data from signal amplifiers of other manufacturers can also be measured and evaluated.



Technical Data

Data Acquisition Cards Supported

Type 2855A3, CIO-DAS 1602/12	
PC bus: ISA	
Number of measuring channels: 8, analog, differential	
Measuring range: ±1,25 V; ±2,5 V; ±5 V; ±10 V	
Resolution: 12 Bit	
Sampling rate, 1 measuring channel active: 160 kHz	
Sampling rate, 8 measuring channels active: 20 kHz	

Type 2855A4, PCIM-DAS 1602/16

PC bus: PCI	
Number of measuring channels: 8, analog, differential	
Resolution: 16 Bit	
Measuring range: ±1,25 V; ±2,5 V; ±5 V; ±10 V	
Sampling rate, 1 measuring channel active: 100 kHz	
Sampling rate, 8 measuring channels active: 12,5 kHz	

Type 2855A5, PC-CARD-DAS 16/16

PC bus: PCMCIA, PC-CARD	
Number of measuring channels: 8, analog, differential	
Resolution: 16 Bit	
Measuring range: ±1,25 V; ±2,5 V; ±5 V; ±10 V	
Sampling rate, 1 measuring channel active: 100 kHz	
Sampling rate, 8 measuring channels active: 12,5 kHz	

This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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KISTLER

measure. analyze. innovate.

Measuring Instrument Control and Configuration via Communication Interfaces

RS-232C

5011Bx2, 5015..., 5017..., 5019..., 5223..., 5237..., 5070A...

IEEE-488

5011Bx1, 5015Ax1xx, 5070Axxxx1

Triggering

Analog, digital and by Keyboard

Measuring Time

The measuring time is limited by the memory (RAM).

3 measuring channels sampled for 1 minute at 3 kHz require approx. 2 MB RAM.

Digital Signal Evaluation

Vithin a measuring window
Averaging
Minimum and maximum values
Integral
Determining the signal frequency
ignal smoothing
Moving mean value
Moving median value
High and low pass filters
Compensation of signal drift

Graphics Functions

Measured data represented on one or more graphs
Display as y(t) and y(x) graphs
Display of numeric values
Cursor function
Zoom function

Calculation Functions

Multi-component force-moment calculation Calculation of radial and tangential forces with rotating cutting force

dynamometer Type 9123.../24...

Mathematical functions

Tools

Voltmeter function Oscilloscope function

Documentation of the Measurement

Each measurement can be individually documented.

Storage of measurement and configuration data with or without remarks

Import and export of measured data and ASCII format for Excel, Dia Dago, Dia Dem, LabVIEW, Math Lab etc.

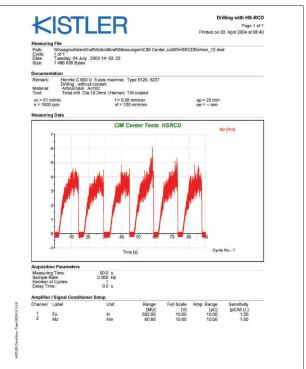
Printer

Printing of test records and configuration data is supported by Windows

Help Functions

With tutorial program

Example of a Test Record



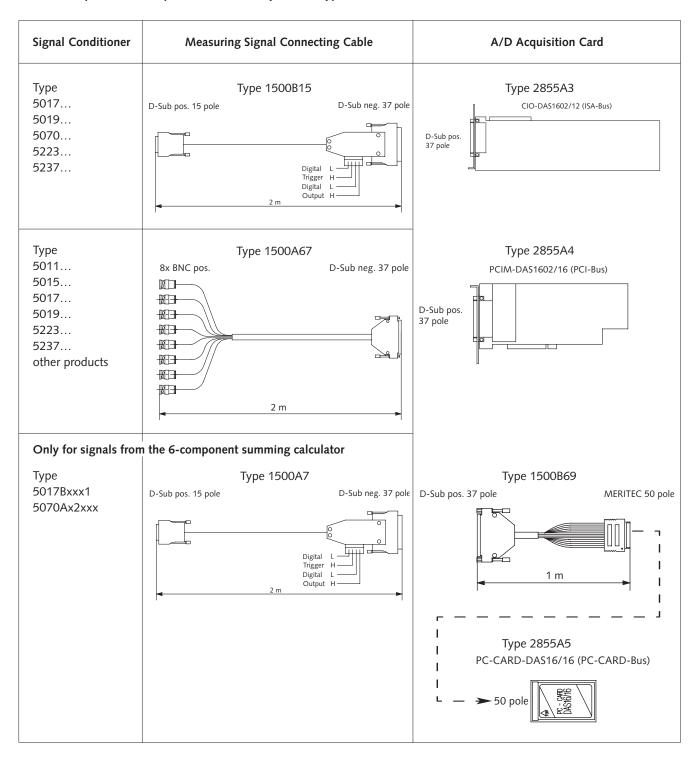
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Cable Concept and A/D Acquisition Cards for DynoWare Type 2825A...



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Interface Cables

Signal Conditioner	RS-232C Interface Cable (Null Modem)
Type 5011Bx2 5017 5019 5223	Type 1475A3 D-Sub neg. 9 pole
Type 5015 5070 5237	Type 1200A27

Requirements for the PC

- Operating System: Windows NT4.0 (SP4), 2000, XP
- Pentium PC 500 MHz or higher
- Hard disc: 100 MB free space for data storage and software installation
- Memory: at least 64 MB RAM, (128 MB recommended)
- Super VGA monitor, screen resolution set to at least 800x600
- Vacant port (ISA, PCI or PC-CARD) for data acquisition board
- Parallel interface Centronics (LPT1) or USB for license key
- Microsoft compatible mouse
- CD-ROM drive
- A color printer is recommended for creating hard copies of graphs
- Acrobat Reader for reading the PDF Instruction Manual

Optional Accessories

- Data acquisition card
- Data acquisition card
- Data acquisition card
- Connecting cable
- Connecting cable
- Connecting cable
- Interface cable
- Interface cable
- USB/RS-232C converter

Туре

1475A3

2867

2855A3, CIO-DAS 1602/12 2855A4, PCIM-DAS 1602/16 2855A5, PC-CARD-DAS 16/16 1500B15 1500A67 1500B69 1200A27

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Ordering Key Scope of Delivery Including Accessories	Туре
 DynoWare Complete Version Runtime license key for parallel interface CD-ROM Instruction manual 	2825A-02-1
 DynoWare Complete Version Runtime license key for USB interface CD-ROM Instruction manual 	2825A-02-2
DynoWare Update VersionCD-ROMInstruction manual	2825E-02-0
DynoWare Demo Version CD-ROM 	2825D-02-0

CD-ROM

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