DynoWare

Windows® 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. For signal analysis, DynoWare offers online visualization of the curves measured, together with useful calculation and graphics functions. In addition to simple configuration of the main measuring instruments, it supports individual documentation of the measurement, as well as storage of configuration and measured data.

- 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 also ideal for the acquisition and evaluation of physical measurands

**Technical data**

**Data acquisition cards supported**

<table>
<thead>
<tr>
<th>Type</th>
<th>PC bus</th>
<th>Number of measuring channels:</th>
<th>Measuring range:</th>
<th>Resolution:</th>
<th>Sampling rate, 1 measuring channel active:</th>
<th>Sampling rate, 8 measuring channels active:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 2855A3, CIO-DAS 1602/12</td>
<td>ISA</td>
<td>8, analog, differential</td>
<td>±1,25 V; ±2,5 V; ±5 V; ±10 V</td>
<td>12 Bit</td>
<td>160 kHz</td>
<td>20 kHz</td>
</tr>
<tr>
<td>Type 2855A4, PCIM-DAS 1602/16</td>
<td>PCI</td>
<td>8, analog, differential</td>
<td>±1,25 V; ±2,5 V; ±5 V; ±10 V</td>
<td>16 Bit</td>
<td>100 kHz</td>
<td>12,5 kHz</td>
</tr>
<tr>
<td>Type 2855A5, PC-CARD-DAS 16/16</td>
<td>PCMCIA, PC-CARD</td>
<td>8, analog, differential</td>
<td>±1,25 V; ±2,5 V; ±5 V; ±10 V</td>
<td>16 Bit</td>
<td>100 kHz</td>
<td>12,5 kHz</td>
</tr>
</tbody>
</table>

**Measuring instrument control and configuration via communication interfaces**

- RS-232C: 5017..., 5019..., 5011Bx2, 5015..., 5223..., 5237...
- IEEE-488: 5011Bx1, 5015Ax1xx

**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. 1 MB RAM

**Digital signal evaluation**

- Within a measuring window
  - Averaging
  - Minimum and maximum values
- Signal smoothing
  - Moving mean value
  - Moving median value
  - High and low pass filters
- Compensation of signal drift

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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.
Software DynoWare, Type 2825A1-2

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
- Display of stored measurement and configuration data and remarks
- Import and export of measured data in ASCII format for Excel, Dia Dago, LabVIEW etc.

Printer
- Printing of test records and configuration data is supported by Windows

Help function
- With tutorial program

Example of a test record

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Cable concept and A/D acquisition cards for DynoWare Type 2825A1-2

**Signal Conditioner**
- Type 5017...
- Type 5019...
- Type 5223...
- Type 5237...

**Measuring signal connecting cable**
- Type 1500B15
- 8x BNC pos.

**A/D acquisition card**
- Type 2855A3
- Type 2855A4
- Type 2855A5

**RS-232C interface cable**
- Type 1475A3
- Type 1200A27

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Minimum requirements for the PC
• Pentium 266 MHz or higher
• Hard disk: at least 50 MB free hard disk space
• Memory: at least 64 MB
• Screen resolution supported: 1024 x 768 or higher
• Vacant port (ISA, PCI or PC-CARD) for data acquisition card
• Vacant port (ISA, PCI or PC-CARD) for IEEE 488 interface card (if required)
• Parallel interface Centronics (LPT1)
• Serial interface RS 232C (COM1)
• Windows 95, 98, 2000 and NT4.0

Accessories
• Data acquisition card Type 2855A3, CIO-DAS 1602/12
• Data acquisition card Type 2855A4, PCIM-DAS 1602/16
• Data acquisition card Type 2855A5, PC-CARD-DAS 16/16
• Connecting cable Type 1500815
• Connecting cable Type 1500A67
• Connecting cable Type 1500869

Scope of delivery of the available versions
DynoWare Type 2825A1-2, complete version
• Software license
• CD-ROM
• Operating instructions
• RS-232 cable (Type 1475A3)

DynoWare Type 2825A11-2, update version
• CD-ROM
• Operating instructions

DynoWare Type 2825D1-2, demo version
• Complete functionality but without data acquisition and storage facilities
• CD-ROM
• Operating instructions

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