

# DynoWare

Type 2825A1-2

## 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

Type 2855A3, CIO-DAS 1602/12

PC bus: ISA

Number of measuring channels: 8, analog, differential

Measuring range:  $\pm 1,25$  V;  $\pm 2,5$  V;  $\pm 5$  V;  $\pm 10$  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:  $\pm 1,25$  V;  $\pm 2,5$  V;  $\pm 5$  V;  $\pm 10$  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:  $\pm 1,25$  V;  $\pm 2,5$  V;  $\pm 5$  V;  $\pm 10$  V

Sampling rate, 1 measuring channel active: 100 kHz

Sampling rate, 8 measuring channels active: 12,5 kHz

#### 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

## 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.

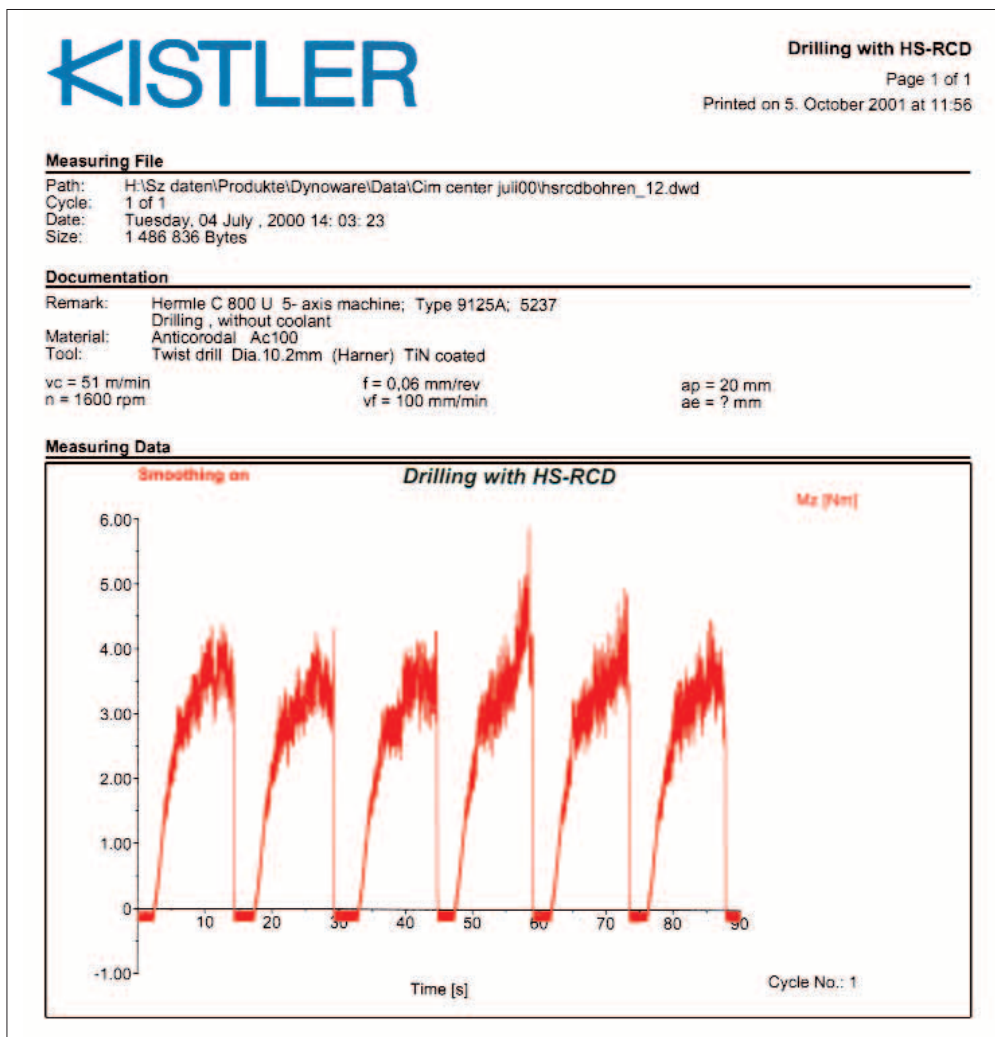
## Printer

Printing of test records and configuration data is supported by Windows

## Help function

With tutorial program

## Example of a test record



000-371e-05.02 (DB19.2825e)

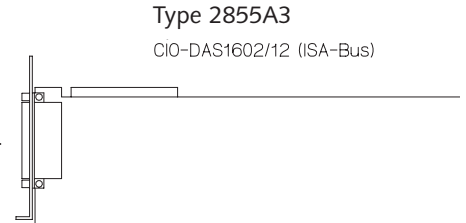
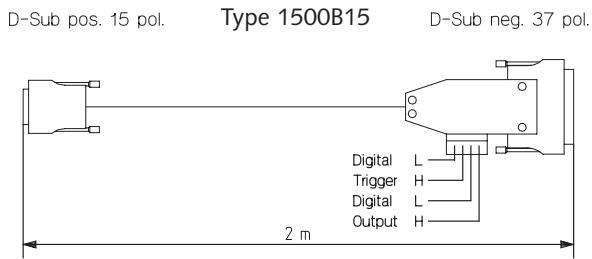
**Cable concept and A/D acquisition cards for DynoWare Type 2825A1-2**

**Signal Conditioner**

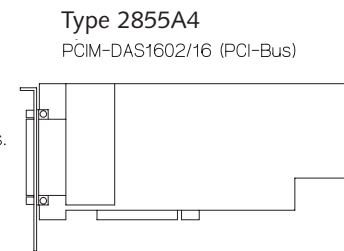
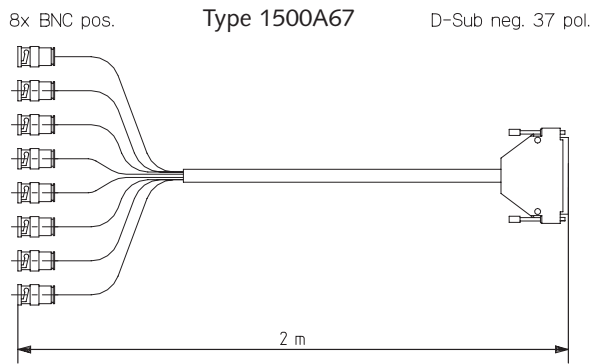
**Measuring signal connecting cable**

**A/D acquisition card**

Type  
5017...  
5019...  
5223...  
5237...

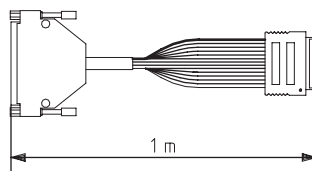


Type  
5017...  
5019...  
5223...  
5237...  
5011...  
5015...



D-Sub pos. 37 pol.      **Type 1500B69**      MERITEC 50 pol.

Type  
1500B15  
1500A67



**Type 2855A5**  
PC-CARD-DAS16/16 (PC-CARD-Bus)

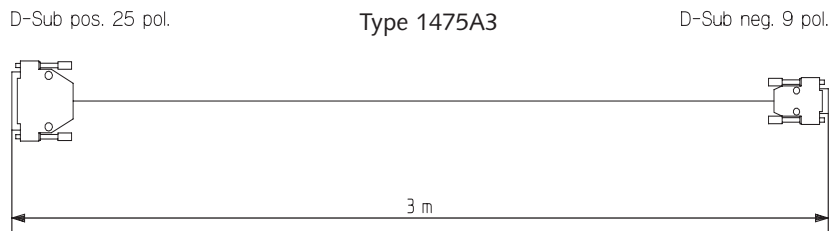
50 pol.



**Signal Conditioner**

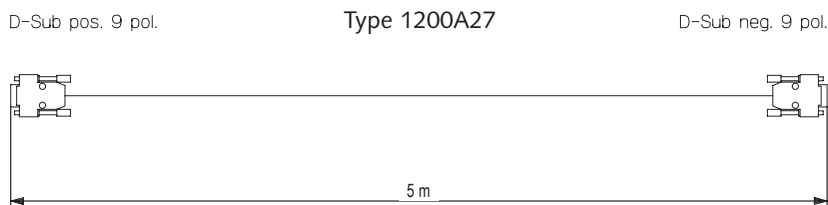
**RS-232C interface cable**

Type  
5017...  
5019...  
5223...  
5011Bx2



Type 1475A3 is included in the scope of delivery of Type 2825A1-2.

Type  
5237...  
5015...



Type 1200A27 is included in the scope of delivery of Type 5237A....

000-371e-05.02 (DB19.2825e)

### 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

### 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

### 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 1500B15
- Connecting cable Type 1500A67
- Connecting cable Type 1500B69