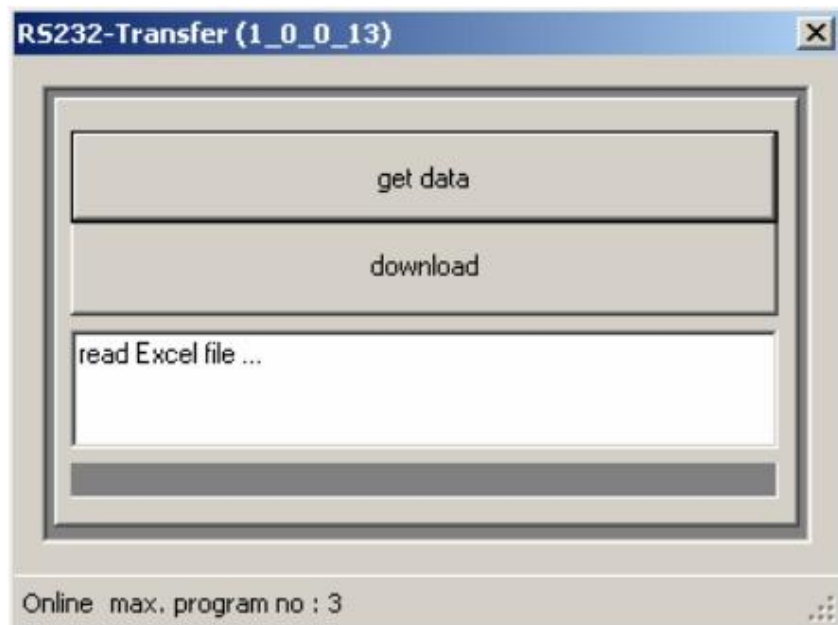




PC Terminal Software

DAVe Version 1.0

for Windows XP, Vista, 7 & 8



Instruction Manual

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1. DAVE Program

(Device Application and Verification Program)

Transmits programs to Kentucky Gauge position controllers.

1.1 Miscellaneous

DAVe is an active X DLL which transmits demand values and quantities to position controllers.

With the settings made in the config file, the DLL can be adjusted to different demands.

The DLL can be started from every program based on Microsoft XP or later versions.

DAVe can be started in visible and invisible mode.

1.2 System requirements

Dave needs the following system requirements

- Intel-compatible PC, minimum 486DX with 100MHz or higher
- RS232 Interface (A USB to RS232 adaptor may be used but Hymark LTD cannot guarantee compatibility. Some models may cause issues.)
- Windows XP or higher.
- Framework 2.0 (This can be downloaded from the Microsoft web page)

1.3 Installation

First make sure that Microsoft Framework 2.0 is installed on your computer.

Install the DAVE folder on your root drive (C:).

Double click on the DaVe.exe, you will get an error message the first time. This is normal and will create the "licence.key" file in the same directory as DaVe.exe.

Email the "licence.key" file to info@hymark.net to request a product key.

Replace your existing "licence.key" file with the one that is emailed back to you. **"licence.key" must remain in the same directory as "DaVe.exe"**. This file is PC specific so we must create a new license file for each PC running DAVE.

1.3.1 COM setup

The "config.ini" file contains the software configuration. By default the Baud rate is set to 9600 in this file.

Make sure your controller baud rate is also set to 9600, set P91 in "ALL" parameters (on controller interface) to "1" for 9600.

Also, by default the software is configured to communicate on COM1. If you require a different com port, you will need to edit the "config.ini" file line, "COMMPORT=1" to reflect the port you are using.

You must have a controller powered on and attached to the PC* when you open DAVE to establish a connection.

*A USB to RS232 adaptor may be used, but Hymark LTD cannot guarantee compatibility. Some models may cause issues.

1.4 Config.ini

Note: These parameters are shown as a reference. Only change "COMMUNICATION" baud rate as needed. Other parameters must remain unchanged for proper performance.

```
=====
[CONFIGURATION]
=====
-----
Version=1-0
Created=29.01.07
Customer=STANDARD
Device=PS312
-----
[PROGRAM]
DEVICE_TYPE=PS600 ; Device Type
MULTI_AXIS=true ; FALSE=One Axis TRUE=more than one Axis
APPLICATION=2 ; 0 = form invisible
; 1 = form visible
; 2 = visible with OpenFileDialog
LANGUAGE=ENGLISH ; Language
FORMAT=EXCELL ; Data Format
COMMPORT=1 ; Com Port Number
COMMUNICATION=9600,N,8,1 ; Communication Parameters
LOGFILEPATH= ; if nothing logfile will be found in
; Applikation Path
EXCHANGE_PATH= ; Excel Filename if APPLIKATION = 0 or 1
EXCHANGE_FILENAME=CommTest.xls ; Excel Path if APPLIKATION = 0 or 1
EXTENDED=0 ; for future use
TRANSFER=50 ; Transmit cycle time in mS
WAIT=100 ; Receive wait time in mS
CONFIGMODE=0 ; only for debugging informations
```

1.4 Config.ini (Continued)

```
[ENGLISH]
TEXT_CAPTION=RS232-Transfer
TEXT_ONLINE=Online
TEXT_OFFLINE=Offline
TEXT_MAX_PROG=max. program no
TEXT_NOCONNECTION=no connection
TEXT_READDATA=get data
TEXT_DOWNLOAD=download
TEXT_STATUS=status
MSG_1=error initialize RS232
MSG_2=Ini-File not exist:
MSG_3=Error Reading Ini-File:
MSG_4=package to be send:
MSG_5=package sent:
MSG_6=transmit successful
MSG_7=read Excel file ...
MSG_8=excel file ok
MSG_9=ERROR:
MSG_10=not found.
MSG_11=Error writing data
MSG_12=error reading excel-file in row
MSG_13=max. prog-no exceeded
EOT_0=Message0
EOT_1=Message1
EOT_2=Message2
EOT_3=Message3
EOT_4=Message4
EOT_5=Message5
EOT_6=Message6
EOT_7=Message7
EOT_8=Message8
EOT_9=Message9
SHEETNAME=Tabelle1
```

1.5 Excel File

The first line in the Excel file must not be changed!

A semicolon must be placed before a comment.

When a semicolon is placed in the first column the whole line is set as a commentary line.

In the config.ini the name of sheet 1 in the Excel can be written.

Column A: When a multi axes controller is connected, this column shows the axis number. (i.e. axis 1 = 1, axis 2 = 2...) When a single axis controller is connected, a 0 is written to this column. In the Line "PNO" the program number is set. When the program number is set to "0", the demand value, quantity and position mode are send directly to the controllers display. (Single Mode)

Column B: Shows the step number. PS312 controllers ignore the step number. They automatically increment the step during a transmission.

For future compatibility it is recommended to set this number, if possible.

Column C: Shows the demand value. The demand value does not need a decimal included in the Excel file.

Example: 1000 in Excel = 1.000 or 10.00 depending on controller resolution.

The value sent to the controller must have the same resolution as the connected controller. When there are any decimals in the demand value, the communication software will ignore them.

Column D: Shows the quantity.

Column E: Shows the positioning - mode.

Where is:

- 0 = absolute position
- 1 = relative position
- A = absolute position
- R = relative position

Program end for PS312P controllers is activated with a line where the demand value and the quantity is set to "0".

Column F: Shows the tool outputs.

Column G: Reserved for later updates. Should be blank.

Column H: Reserved for later updates. Should be blank.

1.5 Excel File (Continued)

Example for single axis controller - PS312

The screenshot shows an Excel spreadsheet with the following data:

axis	number	demand	quantity	mode	output
	This is a comment line.				
Pno	1				
0	1	1000	1	0	1
0	2	200	2	1	2
0	3	300	3	0	3
0	4	400	4	1	4
0	5	500	5	0	5
0	6	600	6	1	6
0	7	700	7	0	7
0	8	800	8	1	8
0	9	900	9	0	9
0	10	1000	1	0	1
0	11	100	2	1	2
0	12	200	3	0	3
0	13	300	4	1	4
0	14	400	5	0	5
0	15	500	6	1	6
0	16	600	7	0	7
0	17	700	8	1	8
0	18	800	9	0	9
0	19	900	9	0	9
0	20	1000	1	0	1
0	21	100	2	1	2
0	22	200	3	0	3
0	23	300	4	1	4
0	24	400	5	0	5
0	25	0	0	0	0