

DATAVIEW® Data Acquisition Software

Specification Sheet
SS-DVS-0310
March 2010

DATAVIEW® software is an easy-to-use data acquisition utility that is compatible with all Newage or competitive hardness testers having an RS232 serial data output and capable of ASCII transmission. It provides a seamless integration for transmitting hardness testing results to a personal computer for data analysis and documentation. The software permits documentation of part numbers, part name, heat number, special order number, load number, furnace number, lab number and up to three user-defined comment labels. Access to the software can be security protected so that only authorized users have access. You use the software to select the primary hardness scale you are testing to, plus you have provisions to perform automatic hardness scale conversion. You may even create a user-defined scale for your unique application. Tolerances may also be established within the software for developing statistical calculations for HI, LO and OK indications. X-Bar and R Charts can be used to plot High and Low test results. Results can be displayed or printed using a serial printer. Pre-formatted report layouts are supplied including a data printout, data printout with user notes annotations, X-Bar Charts, R Charts, and histogram. User's can configure their report format headers. A Print Preview function allows you to view the report prior to printing. The software's View Menu is used to display up to six different test attributes on your screen: X- Bar/R Chart, Histogram, Tile, Auto Tile, Tool Bar and Status Bar. These view attributes can be used to customize your screen and how test results are displayed. Users may "tile" up to three individual test files. A "Start" key on the operating display is used to automatically call the next test.

Test Setup options include the ability to utilize averages on multiple tests of an individual sample. The software saves the average result plus the corresponding individual test results. Round correction can be used for Rockwell Scales only when testing cylindrical surfaces per ASTM E18 Tables 11-14. Minimum thickness requirements can be established based on ASTM E18 Tables 7-10. A Demo mode can be used that permits a user to manually enter test result data. A User Prompt can be used that requires the test operator to enter a notation for each test upon completion or to enter a note when a test result is edited or deleted.

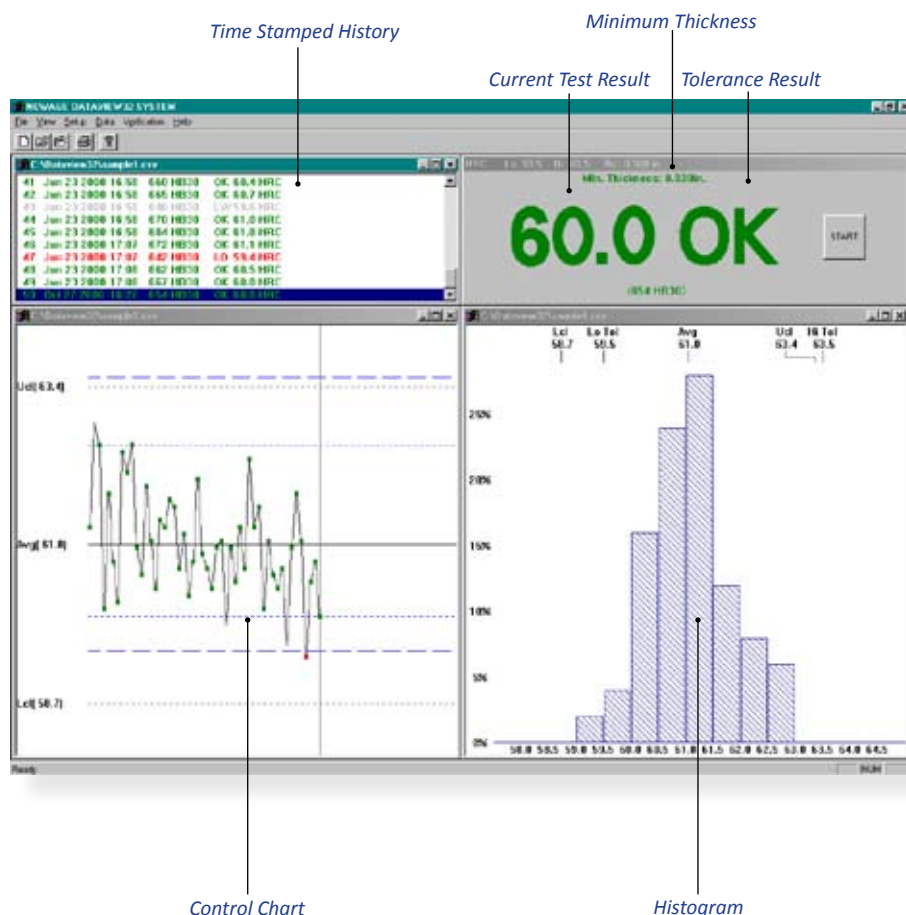
The DATAVIEW software also includes a Verification Mode, that automatically performs a periodic calibration verification of your hardness testers according to your unique needs. Verification attributes include Tester ID, Scale, Range, ASTM Spec, Test Block Description and Timed Verify.

Features

- Comprehensive Documentation of Test Results
 - Direct Export of your Test Data to Microsoft® Excel® or other OLE-2®-compatible Files
- Secure Access Using USB Key
- Upload Test Data from a Newage or Competitive Digital Testers Upon Request or Automatically
- Customize Your Display Views
 - View up to 3 test result files
 - Customize View with X-Bar/R Chart, Histogram, Data Tables
- Embedded Statistical Analysis
 - Average, Min/Max, Range, Std Dev, CpK, Lcl, Ucl
- Print Preformatted Reports
- Add Test Setup Features:
 - Average Tests
 - Round Correction
 - Operator Comments & Acknowledgements
 - Tolerances

System Requirements

- Operating System:** Windows® 95 and higher
Computer Processor: Pentium or Higher
Memory: Minimum 16MB RAM
 Minimum 1 MB Hard Drive
Graphics: VGA Color
Serial Output: 1 Serial Port



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Hardness Testing

Ordering

DataView Application Software

Part No.	Description
DV-X1B	DataView Data Acquisition Software Package with RS232 Interface Cable

Statistics for C:\DataView32\sample1.csv

Test Results

Ok	55	Avg	61.0	Std Dev	0.76
Low	1	Min	59.4	Lcl	58.70
High	0	Max	62.8	Ucl	63.26
Total	0	Range	3.4	Cpk	0.65

OK

No Cpk

Sample Range

From: 1

To: 55

Recalculate

Export

Statistical results can be viewed with calculations performed in real time. Statistics are printed with any report. User may change the range on which the statistics are calculated. Statistics are instantly recalculated.

Set Tolerances

Low Tolerance: 0.0 Set Low Tolerance

Low Warning: 0.0 Set Low Warning

High Warning: 0.0 Set High Warning

High Tolerance: 0.0 Set High Tolerance

Acknowledgement Required

OK Cancel

DataView software includes intelligent prompts, menus, list of values and other methods that make data analysis simple. Shown is a Tolerance setup screen that can require a user-acknowledgement.

NEWAGE DATAVIEW SYSTEM

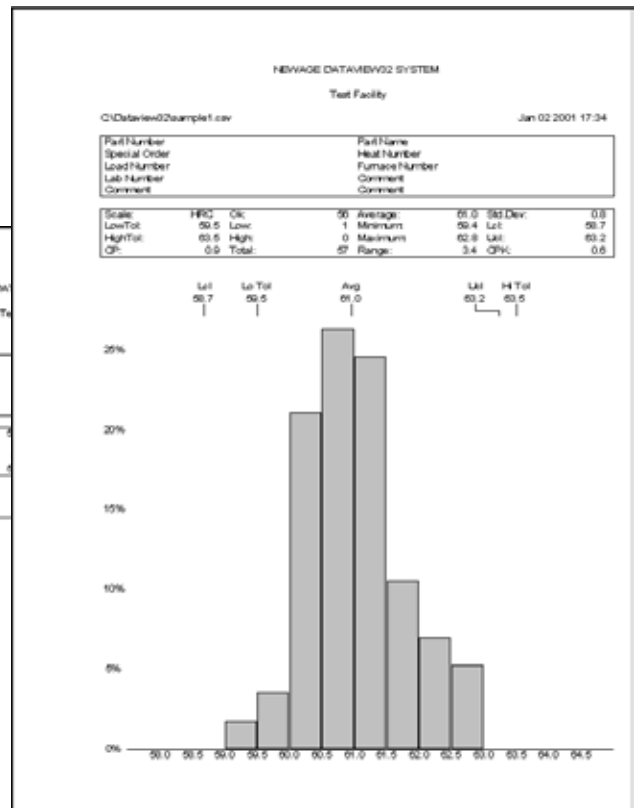
C:\DataView02\sample1.csv

Part Number	Special Order	Load Number	Lab Number	Comment
1				
2				
3				
4				
5				
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9				
10				
11				
12				
13				
14				
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34				

Scale: HRC: Ok: 56 Average: 61.0 Std Dev: 0.8
 LowTot: 59.5 Low: 1 Minimum: 58.4 Lcl: 58.7
 HighTot: 63.5 High: 0 Maximum: 62.8 Ucl: 63.2
 CP: 0.6 Total: 57 Range: 3.4 CPK: 0.6

Seq#	Date	Time	HR30	Tol	HR3
1	Jun 23 2000	15:44	616	OK	61.3
2	Jun 23 2000	15:45	702	H/W	62.8
3	Jun 23 2000	15:48	607	OK	62.5
4	Jun 23 2000	15:48	606	OK	60.1
5	Jun 23 2000	15:49	604	OK	61.8
6	Jun 23 2000	15:48	607	OK	60.8
7	Jun 23 2000	15:48	607	OK	60.2
8	Jun 23 2000	15:48	605	OK	62.4
9	Jun 23 2000	15:49	600	OK	62.1
10	Jun 23 2000	15:49	607	OK	62.5
11	Jun 23 2000	15:49	610	OK	61.0
12	Jun 23 2000	15:49	604	OK	60.5
13	Jun 23 2000	15:49	605	OK	61.9
14	Jun 23 2000	15:49	612	OK	61.1
15	Jun 23 2000	15:49	600	OK	60.4
16	Jun 23 2000	15:50	617	OK	61.4
17	Jun 23 2000	15:50	616	OK	61.3
18	Jun 23 2000	15:50	603	OK	61.7
19	Jun 23 2000	15:50	601	OK	61.5
20	Jun 23 2000	15:51	605	OK	60.7
21	Jun 23 2000	15:51	614	OK	61.2
22	Jun 23 2000	15:51	609	OK	60.3
23	Jun 23 2000	15:51	607	OK	60.8
24	Jun 23 2000	15:52	608	OK	62.0
25	Jun 23 2000	15:52	608	OK	60.9
26	Jun 23 2000	15:52	605	OK	60.7
27	Jun 23 2000	15:52	600	OK	60.4
28	Jun 23 2000	15:52	610	OK	61.0
29	Jun 23 2000	15:52	612	OK	61.1
30	Jun 23 2000	15:52	602	U/W	59.9
31	Jun 23 2000	15:52	610	OK	61.0
32	Jun 23 2000	15:53	602	OK	60.5
33	Jun 23 2000	15:53	616	OK	61.3
34	Jun 23 2000	15:57	605	OK	60.7

Testing started by Dave



Comprehensive reporting includes data table reports with user notations, X-Bar/R Charts and Histograms.

AMETEK

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