DataLyzer® SPC Wizard

Software for Statistical Process Control

DataLyzer® International

DataLyzer® International provides its customers with advice, tools and support to promote manufacturing excellence through continuous improvement.

DataLyzer® is the only supplier globally offering an integrated FMEA, MSA, SPC, OEE and CAPA solution.

DataLyzer SPC Wizard Analysis

Flexible and Agile Usability of common SPC Tools

Provides facility to drag and drop data, select any section of the data, include/exclude data points with any combination of attributes, with instantaneous creation/refresh of control charts, histograms, Pareto's, scattergrams, multi-vari and F and T-test allowing the needed flexibility during analysis. This makes SPC Wizard an excellent tool for green belts and yellow belts in your six sigma implementation or for promoting the use of SPC with suppliers. All screens provide extensive help on the techniques used.
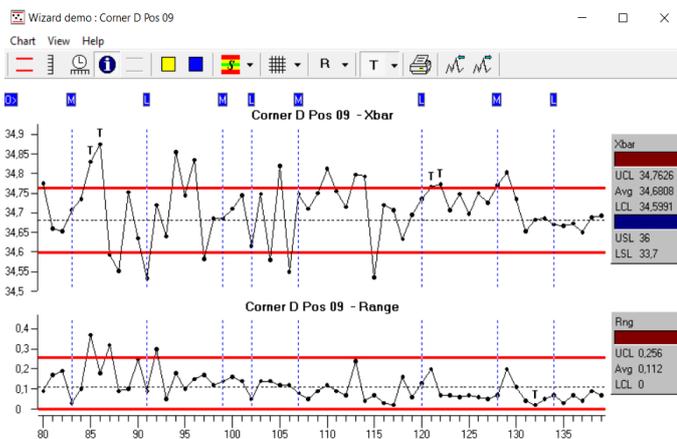
Quick Import

Data can be imported on the fly from DataLyzer Microsoft Excel, Access, SQL Server, Oracle Server or any ODBC compliant data-base with or without previous setup. In Excel it is possible to define the SPC setup so automatically all chart settings are available when data is imported from Excel.

Control chart Analysis

Control chart can be created and analysed. SPC Wizard contains calculate control limits using any section of the data with multiple calculation rules;

- make analysis based on parameters added to the chart like operators, order numbers, article numbers etc. (multi variance analysis)
- select attributes to appear in a chart;
- multiple control charts in one screen;
- time based analysis;
- add notes to the samples;
- exclude points from the calculations.
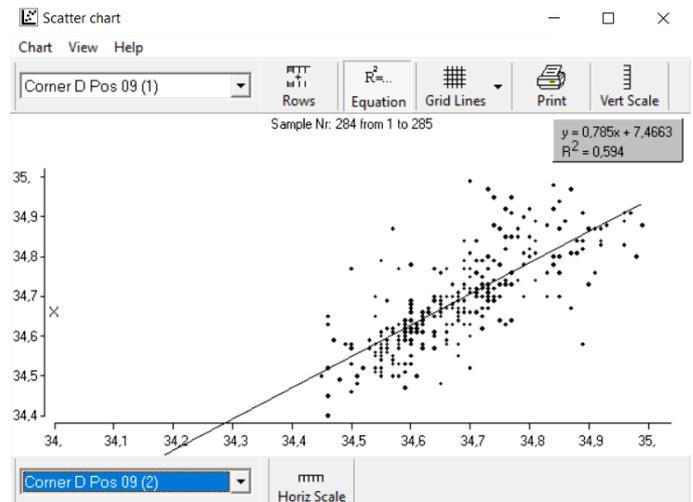

Capability Analysis

The tool can create histograms against a given set of data and allow several following options to aid investigation, for example:

- Toggle between real standard deviation and estimated standard deviation
- Dragging of Specification Limits (temporary) which useful for investigating process capability.
- Scales are made identical while studying multiple histograms

Correlation Analysis

Correlation can be made between variable data, attribute data and numeric optional parameters. A full correlation table can be created between multiple columns.

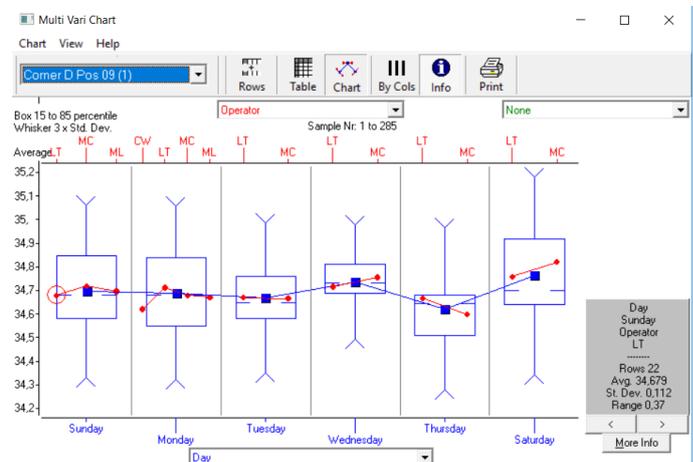During analysis data points can be excluded in the Scattergram view.

Pareto Analysis

Pareto graphs can be made from attribute data but also from logbook entries. Specific columns can be excluded from the analysis.

Multi Vari Analysis

Multi Vari analysis based on time and parameters(operators, suppliers and machines etc) up to three factors, serving as a preliminary tool to get ideas for further investigation. Further the tool allows to pick the response data points on the screen and instantly conduct the F- & T-test in steps showing the normal curve, confidence interval and the data itself.

Frequency Analysis

SPC wizard allows instantaneous frequency analysis of events with for grouped and ungrouped data against time , parameters and notes with Pareto ordering and percentage.

Advanced Data Set Operations

In addition to the common tools SPC Wizard contains some advanced tools to analyze data. You can for example combine data from different data sources and join the data based on a common parameter (e.g. Serial number) or based on time differences. Multiple data sources can be combined automatically.

Some examples:
• Data captured in the SPC system can be easily correlated with supplier data found in Excel files and environmental data found in the database of the logging system.
• A major medical device company uses the tools to apply full tracking and tracing of an individual product through all process steps.

Integration with DataLyzer Spectrum

SPC Wizard is seamlessly integrated with DataLyzer Spectrum, the online SPC tool providing real time SPC analysis eliminating the need for export and data migration across tools.

DataLyzer SPC Wizard Training

Learning and teaching SPC and applying real time SPC tools to your quality data is made easier with Datalyzer's SPC Wizard.
SPC Wizard is unique in that it combines a complete SPC training module containing process simulations and a process improvement game with full functionality for real-time data entry and analysis of both variables and attributes. This means you are not trained how to conduct a control chart but you are trained how to apply the SPC techniques to improve the process.

Self-paced Step-by-Step tutorials

The tutorials within DataLyzer® SPC Wizard contain explanation of SPC concepts in simple English with guide to use the simulators encouraging a hands-on approach in learning concepts.

Dr Deming's Experiments

DataLyzer® SPC Wizard contains simulations of Dr Deming's Red Beads Experiment and Funnel Experiment showing how easy it is to come to the wrong conclusions about people and processes by looking at just raw data.

Process Simulations

Datalyzer's own Tennis Ball Launcher and Bead box simulation programs generate 'variable' and 'attribute' type data similar to taking measurements of a product or service characteristic. The nature of the variation can be changed at any time and this produces 'special' type variation. These simulations show why control charts are so useful in improving our understanding of process variation.

Process Improvement Game

A special game has been developed to give students a chance to practice using control charts. The game simulates a process that is not initially in a state of statistical control. The student has to apply the SPC techniques to improve the process.

About DataLyzer

COMPANY HISTORY

DataLyzer International, Inc. (formerly Stephen Computer Services, Inc) was organized in the late 1970's to develop quality software for industry. Since that time we have established a solid reputation for innovation and customer responsiveness. DataLyzer International has contributed many firsts to its industry.

DataLyzer International was one of the first companies to provide a commercial (real-time) SPC software package for industry in the early 1980's. Soon after, we developed the first commercial Gage Repeatability and Reproducibility software package.

More recently, DataLyzer International was the first to offer multilingual SPC software products on multiple database platforms and FMEA and real-time OEE are integrated.

OUR MISSION

DataLyzer International, Inc. is in business to develop software for continuous improvement of quality and productivity. Our progress depends on successfully pursuing the following principles:

• Offer maximum value in personal service with each customer contact, whether it be sales, support, documentation, consultancy or customer training.
• Be alert for opportunities to improve and support customers for the long run.

Customer Support

Technical support for the DataLyzer® SPC Spectrum Software is available by phone, e-mail or by our automated support desk.
USA: Monday through Friday, 8:30 to 5:30 ET
Europe: Monday through Friday, 8:30 to 6:30 GMT -1
Asia: Monday through Friday IST 8:30 to 6:30

Software purchases include no-charge updates for six months. Support agreements are renewable annually for a modest fee. Services include new versions upon request and personal telephone, fax or e-mail support.

Training seminars are available in our offices or on site. Contact your account manager for more information. Custom software modifications can be quoted individually.

Database Compatibility

DataLyzer® SPC Wizard and DataLyzer® Spectrum software versions are available for use with Microsoft SQL Server databases (SQL Server Native Client, ODBC Driver), Oracle and Microsoft Access Databases.

Operating System Compatibility

DataLyzer Spectrum modules work with the following Microsoft Windows operating systems: Windows 7, 8, 10. DataLyzer Spectrum is network-compatible with Windows Server. Citrix® and Microsoft Terminal Services thin client/server configurations can also be used.

Associated Modules

• DataLyzer® Spectrum
• DataLyzer® Spectrum - Gage Management System
• DataLyzer® Certificate of Analysis
• DataLyzer® Dashboard Module
• DataLyzer® OEE
• DataLyzer® Failure Mode and Effect Analysis

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