

SPC-Light Software

Report Generation & Performance Monitoring

SPC-Light software from Lighthouse Systems allows operators to collect and analyse data easily so that they can take control of their processes. SPC-Light has been implemented in a wide variety of manufacturing industries, from automotive to electronic, and from steel to glass. Operators can generate reports to monitor performance and achieve sustainable improvements in quality and profitability.

SPC-Light software can be used on the factory floor or in the office for data collection, analysis and presentation and has the ability to connect to almost any gauge or piece of measuring equipment. Exporting and importing data is made easier with the SDD Server - an integral part of SPC-Light.

For operators, SPC-Light software offers simple procedures for data entry and clear presentation of analysis, giving instant understanding of what is happening in their process. Supervisors can monitor more than one process and instantly address trouble spots. Quality and production management can view both current and historic data about processes so that decisions can be made for improvement.

SPC-Light has various modules - whether you want to measure variables or attributes, by keyboard or RS232 input, any of these modules can be added over time.

SPC Techniques

SPC-Light supports a wide variety of SPC techniques and also allows calculation styles to be selected to accommodate standards such as Ford, CNOMO, AIAG etc. For those more demanding applications the system administrator can create or edit their own specific calculation style.

Variable Charts	Attribute Charts	Short Run Charts
Xbar-R	Np	Nominal X Moving R
Xbar-S	P	Nominal X Moving S
Run Charts	C	Nominal Moving XR
Machine Capability	U	Nominal Moving XS
Individual X, Moving R	Pareto	Nominal XR
Moving XR	Weighted Pareto	Short Run X Moving R
Individual X, Moving S		Short Run X Moving S
Moving XS		Short Run Moving XR
CUSUM		Short Run Moving XS
Exponentially Weighted Moving Average (EWMA)		Short Run XR
Distribution Fitting		Short Run XS
Probability Plots		Target X Moving R
X Scatter		Target X Moving S
Scatter Charts / Regression Analysis		Target Moving XR
Process Capability Overview Charts		Target Moving XS
		Target XR
		Target XS
		Group Chart

Clear Presentation

To get the best acceptance on the shopfloor you need to present the information in a format that operators can easily interpret.

- Arrange the screen to maximise the number of characteristics shown. Scroll through the data and zoom in or out to your preference
- Present the data alongside the chart, view an image of the product or link the SPC study to an external document
- Screen-locks ensure users always view data in a consistent way, and prevents unauthorised users from altering settings
- Create studies that include variables or attributes; or combine the two
- *Capability Overview Chart* shows multiple variables side by side, showing the process spread relative to variable tolerance

Powerful Analysis

Process improvement can only come about if you are able to understand the factors that effect performance.

- Produce capability reports and filter criteria such as shift, tool, material supplier etc
 - Analyse the position of bores and holes by plotting CircleX against CircleY, then establish how much to move the fixture in X and Y to optimise the process
 - Produce a Pareto of Causes & Actions to determine the most common faults occurring during production
 - Produce accurate capability indices by automatically testing distribution for normality
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