



International  
**DATAlyZER**  
Partners in Continuous Improvement

# DataLyzer® Gage Management

Software for Calibration, MSA and managing gages and tools



## 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® Gage Management

SPC analysis can be greatly affected by measurement system error. Gaging instruments, inspection techniques and fixturing all make up a measuring system. Any of these components can introduce variation. This variation in the measuring system can be an important cause of out of controls and is also reflected as part of total process variation in the SPC analysis and negatively affects key quality statistics like Cpk and Ppk.

In all major quality approaches controlling measurement system variation is an essential first step. DataLyzer® Spectrum Gage Management quantifies this measurement system variation and provides the required information for reducing it. The DataLyzer® Spectrum Gage Management system works according to ISO/TS 16949:2009 and IATF 16949 requirements.

DataLyzer® Gage Management will operate alone or it will link to the DataLyzer® Spectrum SPC module. When linked, the Gage Management module shares the Spectrum database offering access to common setup information like characteristic specifications along with process information like variation. This integration makes it possible to provide reports where the gage variation and process variation can be compared and printed instantly in one report.

The system allows for individual and 'generalized' Gage R&R studies. 'Generalized' studies apply results from one gage's study to all gages of the same type according to certain constraints.

There are 3 components to this system:

- Gage Calibration and Bias Studies
- Gage Repeatability and Reproducibility Studies
- Supplier Records (sourcing for supplies, replacement and repair)

### Gage Calibration and Bias studies

Calibration is often the largest ongoing cost of a quality assurance department.

DataLyzer's Gage Management system allows you to manage those costs, as well as the gages themselves. Determines whether or not bias exists, and whether it exceeds acceptable limits.

	Nominal	Mean 1	Mean 2	Mean 3	Mean 4	Mean 5	Average	Bias	Status
1	2.90	2.91	2.91	2.91	2.91	2.91	2.910	0.010	PASS
2	10.30	10.30	10.30	10.30	10.30	10.30	10.300	0.000	PASS
3	25.00	25.00	25.00	25.00	25.00	25.00	25.000	0.000	PASS
4	50.00	50.00	50.00	50.00	50.00	50.00	50.000	0.000	PASS
5	100.00	100.00	100.00	100.00	100.00	100.00	100.000	0.000	PASS
6	150.00	150.01	150.00	150.00	150.00	150.01	150.004	0.004	PASS

DataLyzer® Gage Management software further maintains history of these calibration studies so that trends can be observed.

### Calibration:

User selectable number of calibration points within the measuring range along with the flexibility to substitute an available standard nearest each calibration point.

There is the option to include measurement or master uncertainty in the study.

Simple, colour coded pass/fail status indication on the study when complete. User definable criteria for pass fail includes passing % limit of Tolerance, or process variation.

Reports clearly indicate the gage details for example pass fail status and the date of study.

User definable customer name titles and graphical logo can be included in each report header.

Calibration Study history is maintained for each gage. View historical studies or print them for distribution.

Calibrations Due Reports are also available designating which group of gages need to be studied or re-studied during any given week or month.

Calibration procedure can be user-defined and applied to all desired gages.

Information about external calibrations can be stored and calibration results can be attached to the gage record so the reports are quickly accessible.

Calibration stickers can be printed.

### Gage Repeatability and Reproducibility studies

Even if a measurement system calibrates without bias, how consistently does it measure production parts...

- When used by one individual at different times (repeatability).
- When used by more than one individual over time (reproducibility).

The Gage R&R functionality of the DataLyzer Gage Management system provides the possibility to perform and manage gage R&R studies. The use of gage types and characteristic groups allows you to perform studies for representative gages and characteristics which can be used in reports.

### Features:

**Simplified data entry:** Open sheet, by trial and randomized for all variables.

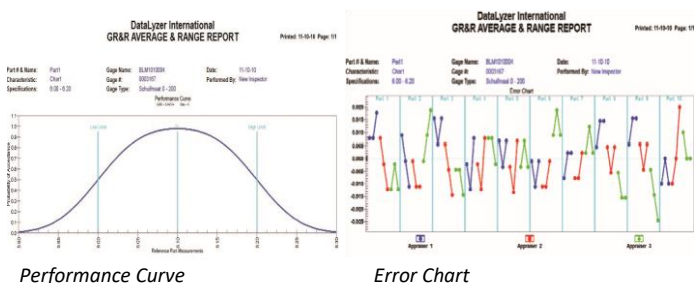
**Multiple clear analyses and Reports:** ANOVA, Long and short, variable and attribute studies, complimented by performance curves, Range charts, Average & Run charts, Error charts, Normalized Individuals Charts, Whisker charts, X-Y plots and Scatter plots of the data. R&R percentage can be based on process variation, Study variation or specific characteristic tolerance.



The system allows fast and convenient study creation with a format which makes the studies easy to perform. Study results can be reviewed from a historical list.

Part	Appr #1 Total #1	Appr #1 Total #2	Appr #1 Total #3	Appr #2 Total #1	Appr #2 Total #2	Appr #2 Total #3	Appr #3 Total #1	Appr #3 Total #2	Appr #3 Total #3
1	6.18	6.19	6.19	6.19	6.17	6.16	6.16	6.17	6.16
2	6.12	6.11	6.1	6.11	6.1	6.1	6.11	6.12	6.13
3	6.15	6.14	6.15	6.14	6.13	6.12	6.13	6.13	6.12
4	6.11	6.1	6.12	6.11	6.1	6.12	6.12	6.12	6.11
5	6.12	6.11	6.12	6.11	6.1	6.12	6.11	6.12	6.11
6	6.14	6.13	6.14	6.13	6.13	6.14	6.15	6.16	6.15
7	6.14	6.15	6.15	6.14	6.14	6.15	6.15	6.16	6.15
8	6.17	6.18	6.18	6.17	6.16	6.17	6.16	6.15	6.15
9	6.17	6.18	6.18	6.17	6.16	6.17	6.16	6.15	6.14
10	6.09	6.09	6.08	6.08	6.09	6.11	6.1	6.09	6.09

Report Options include numerous preformatted forms with your company title and graphical logo.



## COMPANY HISTORY

DataLyzr 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. DataLyzr International has contributed many firsts to its industry.

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

## OUR MISSION

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

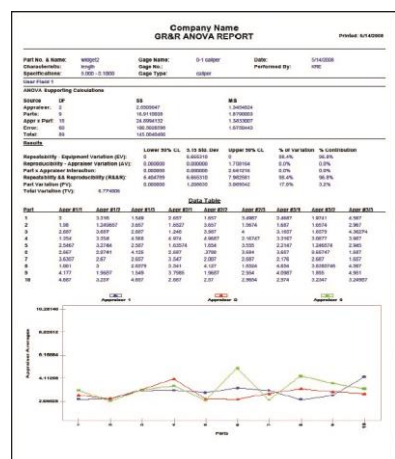
- Listen and respond to customers with strong, maintenance-free products and features.
- Offer maximum value in personal service with each customer contact, whether it be sales, support, documentation, consultancy or customer training.
- Be alert for opportunities to improve.
- Support customers for the long run.

## Supplier information for several categories of supplier

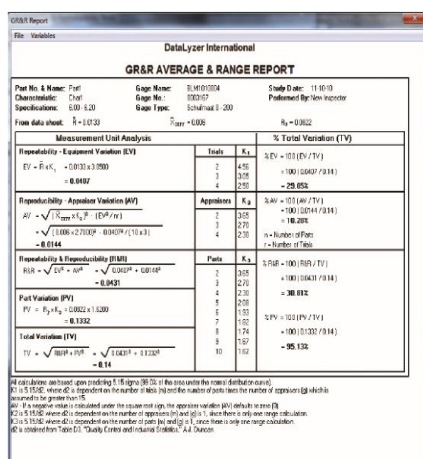
Each gage must be entered as a record in the system. Thereafter, it can be referenced by either the Calibration or Gage R & R studies

Each gage is defined in the DataLyzr® Gage Management system with a significant amount of descriptive information related to the gage and the gage supplier. For each gage you can define in which location the gage can be found.

Contact information, product costs, service and suppliers availability etc. can be entered. These records are maintained to allow quick reference for instrument service, supplies or replacement.



ANOVA report with supplements



GRR Variable - Long



## Customer Support

Technical support for the DataLyzer® Gage Management 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® SPC Wizard
- DataLyzer® Certificate of Analysis
- DataLyzer® Dashboard Module
- DataLyzer® OEE
- DataLyzer® Failure Mode and Effect Analysis

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### **International Distributors**

DataLyzer® International has a very capable international distributor network. Most distributors have a long term relationship with our company and years of experience with the implementation of SPC, OEE, FMEA and DataLyzer® software.

For your local distributor look at  
[www.datalyzer.com/company/reseller/](http://www.datalyzer.com/company/reseller/)

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