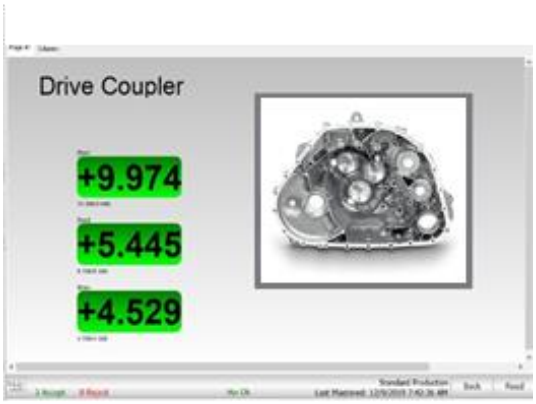
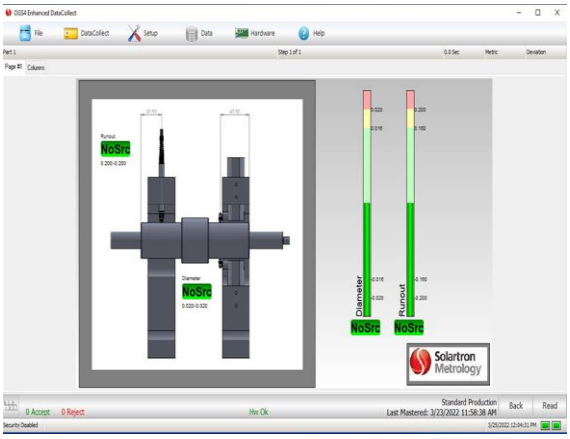
DESCRIPTION

Orbit Gauge Software 4.0 (OGS4) is a redesigned standard off the shelf software package from Solartron Metrology based of the success from its predecessor Orbit Gauge Software 3.0 (OGS3). OGS4 allows for a generic platform that can be used by process engineers, gauge technicians, and gauge OEMs to create MS Windows computer based inspection systems using standard off the shelf Solartron Metrology hardware integrated with your gauge fixture. Not only can the user integrate Solartron Metrology products, but through the Orbit 3 Network products, third party measurement instrumentation can also be integrated to the software product which eliminates the need for multiple software packages. OGS4 is intuitive complete software package for both simple and complex gauging stations…maximizing the users quality process.

KEY FEATURES

- Easy to program
- Supports manual, semi-automatic and automatic gauges/fixtures
- Guided sequences
- Probe Verification
- Data Visualisation
- Recent History
- Data Export
- Mastering
- Customization Service





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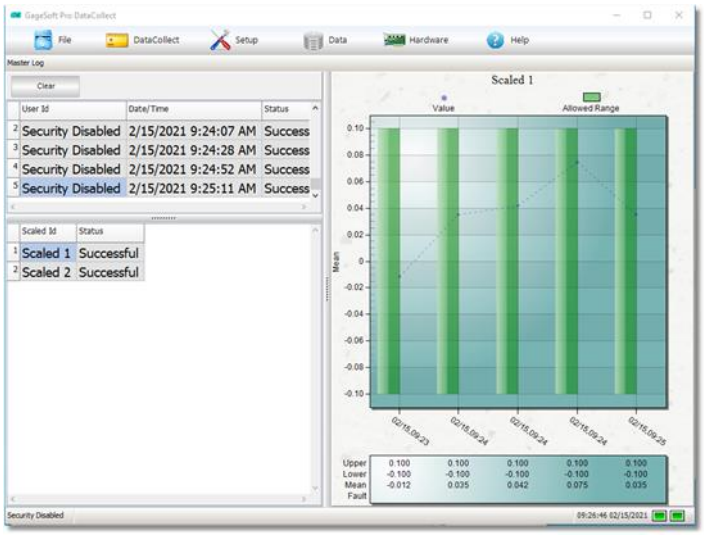
MEASUREMENT INTEGRITY

Measurement integrity is critical to accurate manufacturing of parts. OGS4 has the ability to monitor aspects of the process and alert users to any process changes that may lead to poor part quality. This includes mastering which is key to the measurement process



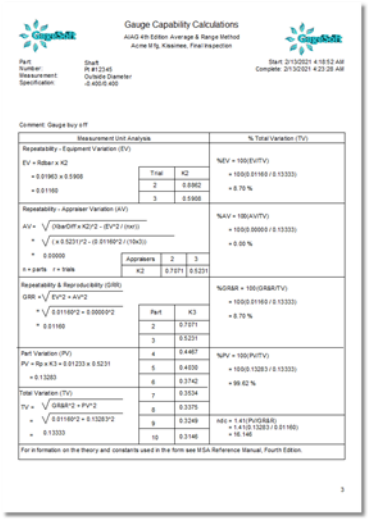
MASTERING (INTEGRITY)

- Verification of sensor position
- Spread of mastering values
- Order of mastering process.
- Recording of Mastering Log
- Forced Mastering based on time or number of parts measured

QUALIFICATION OF MEASUREMENT SYSTEMS

To assist the user in qualification of the measurement system a Gauge Repeatability and Reproducibility (GR&R) feature is available and supports

- AIAG 4th Edition Average and Range method compliance.
- Operator, Trial, Part inspection order is selectable.
- Maintains history of all GR&R's performed.



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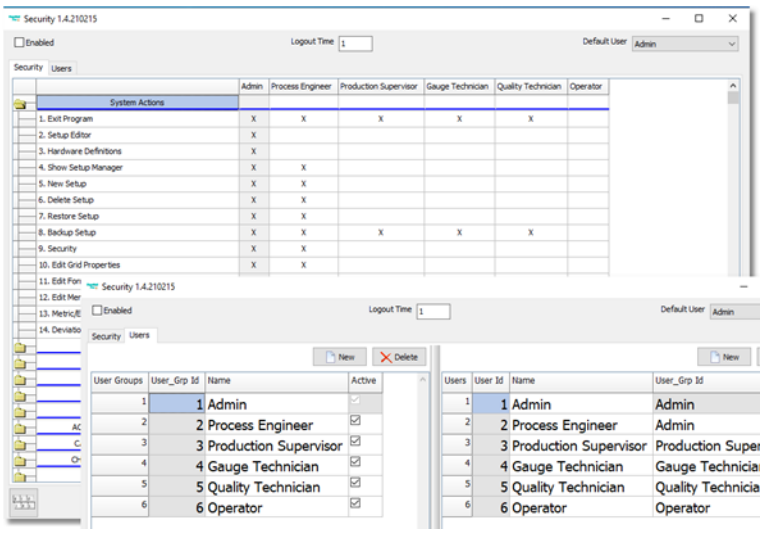
ANALYSIS OF VARIANCE (ANOVA)

Analysis of variance, or ANOVA, is **a statistical method that separates observed variance data into different components to use for additional tests**. A one-way ANOVA is used for three or more groups of data, to gain information about the relationship between the dependent and independent variables. To support ANOVA studies, an interface to QSTAT software, allows OGS4 measurements data to be exported for capability studies in type 1 and type 3 formats.

SECURITY

A security module within OGS4 provides protection of the software, preventing unauthorised changes to the program settings and specification limits.

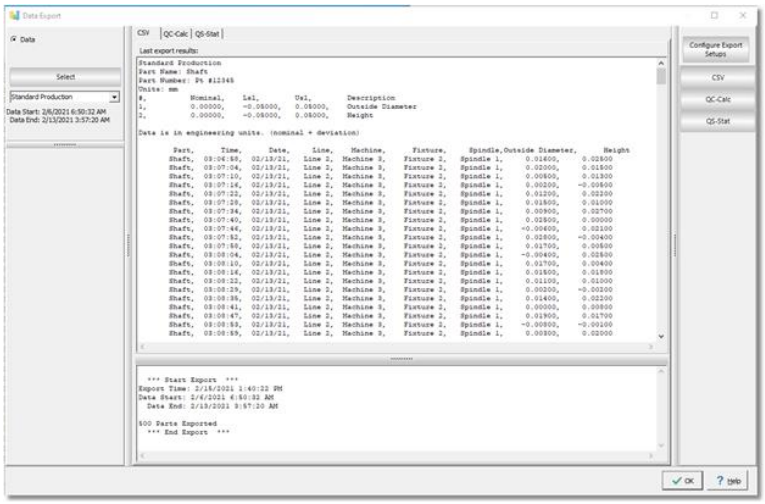


Security

- Multiple levels of security
- Configurable security features
- Security available at property level

STATISTICAL PROCESS CONTROL (SPC)

OGS4 can output the measurement data into a number of established SPC systems enabling traceability of data which is often required by customers.



Data Export Formats

- CSV
- QC-Calc
- Qs-Stat
- PLEX
- Mini-Tab
- Custom

Simple SPC will be incorporated in future releases so that the user will be able to understand the process behaviour and take any necessary corrective actions before a part is manufactured that is not within part limit specifications.

SPC Reporting

- Xbar-R
- X-MR
- Xbar-s
- X
- Histogram
- Part Data

Control Chart Rules

- Basic
- AIAG
- WECO

CHANGES FROM OGS3

OGS4 is an upgrade to its predecessor OGS3 and the knowledge gained from our customers has been incorporated into OGS4.

OGS3, initially launched in 2007, has become widely used in North America. During this time many new features and functions were added following the **"Voice of the Customer"** feedback. This allows OGS3 (formally known as Gagemate/GageMetrics) becoming the go to standard for "off the shelf " software for gauging applications for many OEM gauge and fixture manufacturers.

The following list are some of the enhancements OGS4 offers over OGS3

- Designed for the latest Windows operating systems Windows 10 and Windows 11
- Much improved Graphical Users Interface (GUI)
- Easier configuration-the setup and data collection are one package
- The new Hardware Interface Module (HMI) allows selection of hardware devices that does not require modifications to the main software
- Enhanced scripting to allow customization by the user to add specific requirements that are not part of the standard software package

SUPPORT MAINTENANCE AGREEMENTS (SMA's)

The initial investment in OGS4 can be protected by an annual Support Maintenance Agreement. This covers:

- Issues caused by Windows updates
- Telephone and other media technical support
- Bug fixes and enhancements

Not only do we offer SMA's, but we also offer other services such as, application programming, live remote support via remote connectivity software (internet connection required), and on-site support.

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In the laboratory, on the shop floor or in the field, Solartron Metrology's products provide precise linear measurements for quality control, test and measurement and machine control. Solartron Metrology is a world leader in the innovation, design and manufacture of precision digital and analogue dimensional LVDT gauging probes, displacement sensors, optical linear encoders and associated instrumentation.

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Solartron Metrology pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

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