

Measurement Data Management

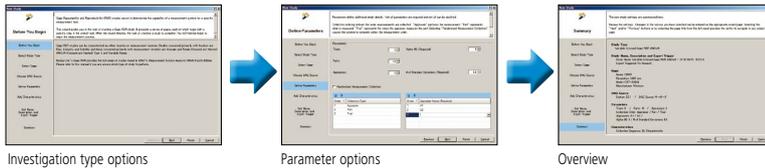
Convenient data collection tool and quality control software

MeasurLink Evaluation / Analysis Software for Measurement System Analysis (MSA) Gage R&R

This is evaluation and analysis software conforming to Measurement System Analysis (MSA) required in IATF 16949. Implementing MSA evaluation can be performed easily and quickly. ISO/TS 16949 requires that a proper measurement system be achieved by analyzing the accuracy of each instrument and variations in operator effects on repeatability using statistical methods.

• Automatic calculation of MSA evaluation results

This allows the operator to simply input an evaluation method/evaluation condition and measurement data with the Wizard function. The operator can implement MSA evaluation simply by selecting an "investigation type option", "gage option", "data input source option", "parameter option", etc.



• Evaluation method compliant with MSA (fourth edition)

The software can implement evaluation using the following methods compliant with MSA (Measurement System Analysis).

- 1) Measurement value tolerance gage R&R variance analysis method
- 2) Measurement value tolerance gage R&R range & average method
- 3) Measurement value branching gage R&R variance analysis method
- 4) Measurement value branching gage R&R average & range method
- 5) Measurement value range method
- 6) Measurement value simplified method
- 7) Measurement value MSA4
- 8) Deviation
- 9) Linearity
- 10) Stability

• Registration of gage-specific information

1. Registration of information on gages within the system

This allows registration of gage information on the following items and association with evaluated results.

Registration items: Gage name, maker, model, resolution, unit, measuring range, etc.

2. Information link between MeasurLink Gage Management and this software

This software can use gage information that has been registered in **Gage Management** directly as options.

Additionally, since gage R&R evaluation results are also linked with gage information, the schedule of gage R&R expiry dates can be managed by Gage Management.

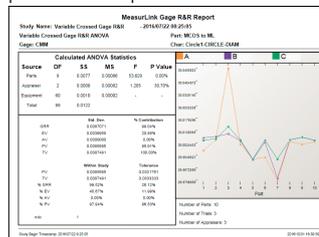
• Analysis chart view

Various charts such as the control chart are effective for analysis/judgment on variations due to operator, the adequacy of gage accuracy, etc., and remedies for problems.



• Output of results as a report

Evaluated results and charts can be printed as a report.



MeasurLink Gage Management Software Gage Management

This software can plan and implement a reliable calibration schedule with a powerful retrieval function in addition to recording and controlling the status of gages. It enables simple recording of gage usage state (operation, storage, calibration, gage R&R, repair and out-of-service) to speedily understand the current location and status of all gages. Common gage information can be viewed from all networked terminals in which this network-compatible software has been installed. Gage information can be shared between software packages linked to **MeasurLink Gage R&R**.

• Creation of a list of calibration-targeted gages from the gage management table

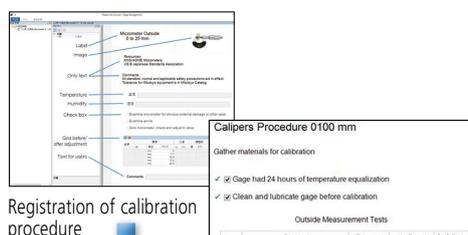
The target gages are retrieved from a variety of search items such as gage ID, gage type, model, maker, distributor, calibration date, current usage state and location to create the list.



Gage management table

• Registration and running a calibration procedure

Allows simple registration of the calibration procedure for each gage and implementation of the calibration.

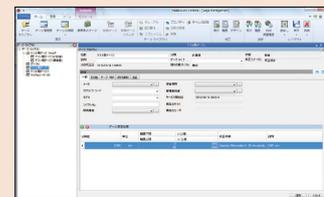


Registration of calibration procedure

Calibration run

• Confirmation of detailed gage information

Allows confirmation of detailed information on individual gages. The software allows you to display a list of gages depending on "Calibration Overdue", "Next Month Due", etc., by setting a calibration date and confirm detailed information on the calibration history of gages.



Display of detailed gage information



Display of gages listed depending on calibration date



Display of calibration history