# TOOLweb® RGA Product Suite

## RGA Operation and Sensor Integration Platform

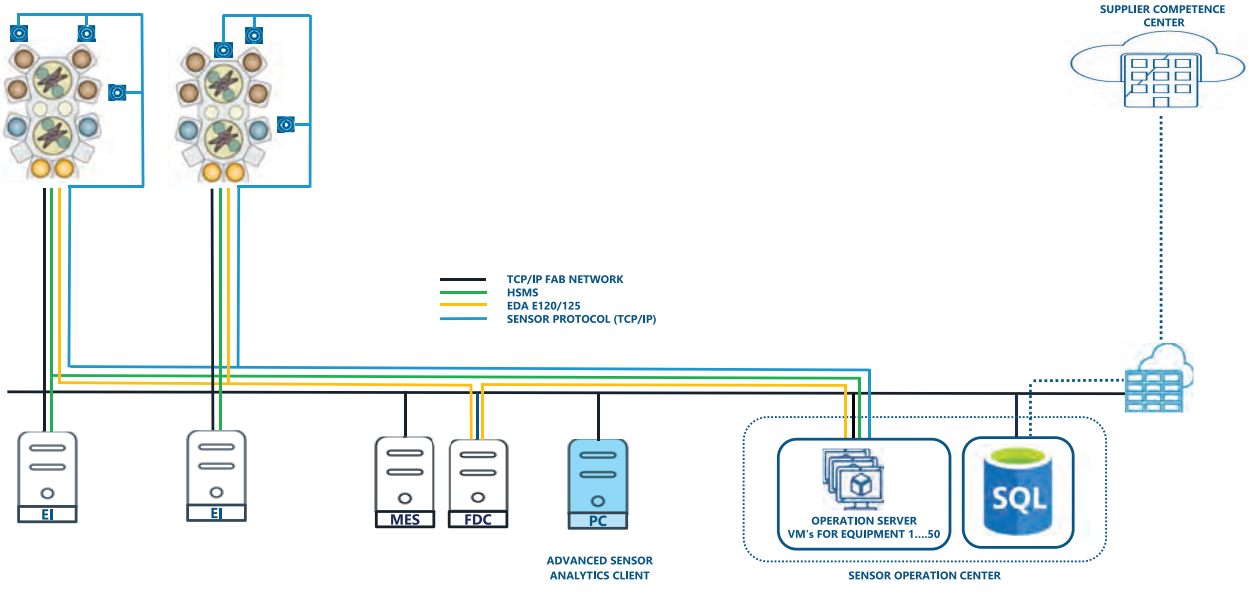
The MKS TOOLweb® RGA Product Suite is a software sensor operation platform that detects process deviations and equipment failures with real-time alarms and intervention via statistical analysis of process and equipment data. It provides automated, user free operation of residual gas analyzers (RGAs) and other process sensors for applications including Physical Vapor Deposition (PVD), Atomic Layer Deposition (ALD), Chemical Vapor Deposition (CVD), etch, ion implant and Rapid Thermal Annealing (RTA). TOOLweb is available in client and server-based configurations.

## Product Features

- TOOLweb RGA scales from equipment level up to the complete factory installation
- Server based implementation improves operational uptime while reducing the cost of ownership
- Customizable alarm alerts
- Supports external sensors like MKS AMDS –1000 for DC Arc detection solutions

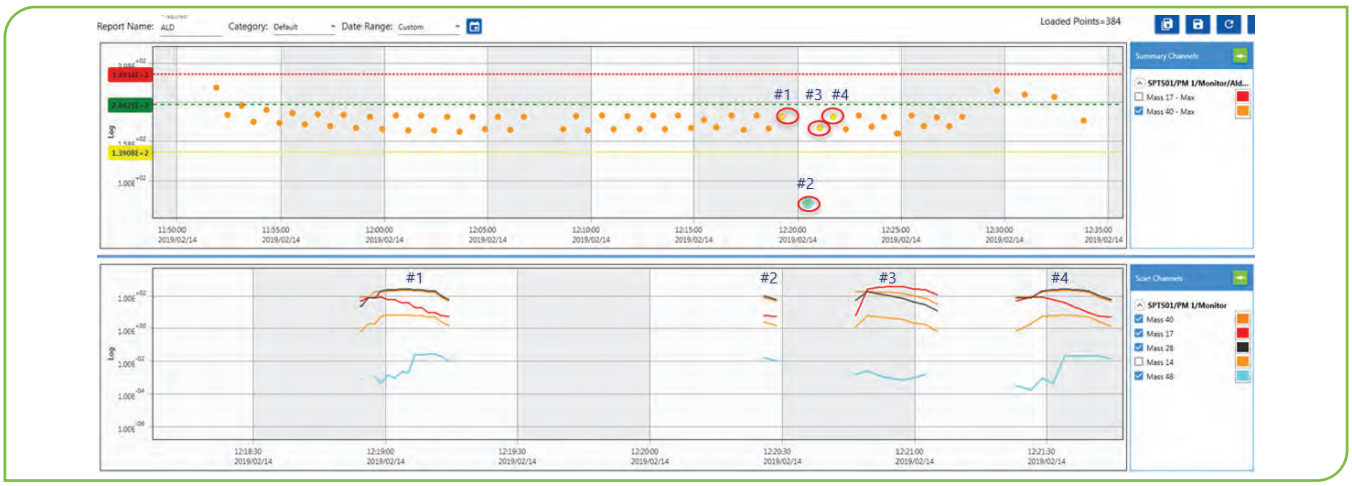
### Key Benefits

- Enhanced data analysis enables Chamber-to-Chamber, Tool-to-Tool, or Fab-to-Fab matching for consistent product quality
- Guarantees reliable and consistent data quality
- Centralized or remote smart management of complex process sensors for quality management in large scale installations




*Factory Deployment and Operation Concept*
*Sensor Operation Center*

## TOOLweb RGA Version 3




*TOOLweb RGA Profiler*
*Statistical process data analysis and reporting of pulse stability analysis on ALD processes*

### TOOLweb RGA Version 3 – Client

- TOOLweb RGA client is the real-time operation platform for RGAs or other process sensors such as MKS AMDS arc-detection modules
- By enabling various equipment communication protocols (SECS/HSMS, OPC, Modbus or custom protocols over TCP/IP), the system is operating fully automated including sensor calibrations and diagnostics
- SECS/HMSS communication management
- FDC interfaces are installed on virtual machines, local PCs or servers

### TOOLweb RGA Version 3 – Fab-Database Server Suite

- TOOLweb RGA Fab-Database Server Suite is an enhancement for large scale installations. It will support various database concepts (currently only SQL server) for storing sensor and equipment data as well as sensor configurations, acquisition properties and alarm definitions

### TOOLweb RGA Version 3 – Fab-Enterprise Suite

- TOOLweb RGA Version 3 Profiler is a desktop client application for enhanced data reporting, statistical data analysis and alarm definition/validation
- Dashboard web application to visualized sensor and equipment status with a user configurable content management




*TOOLweb RGA Dashboard*
*Fab-wide visualization of equipment and sensor operation*

## Specifications

| TOOLweb RGA Version 3 Client Machine Minimum Requirements |
| --- |
| Requires a dedicated machine |
| Virtualization possible |
| Windows® 11 x64 Professional SP1 |
| 8 GB RAM |
| X64 Processor 2.0 GHz (2 core minimum) |
| 128 GB SSD for the Operating System |
| 1 TB SATA HDD for the database (Typically a single RGA will consume approximately 25 GB per Year) |
| **TOOLweb RGA Version 3 - Server Machine Minimum Requirements** |
| Requires a dedicated machine |
| Windows Server from 2016 to 2019 x64 Bit |
| SQL Server Standard (2022) |
| 32 GB RAM |
| X64 Processor 3.0 GHz (4 core minimum) |
| 256 GB SSD for the Operating System |
| 5 TB SATA HHD for the databases; (High Speed (15K) SAS better (Typically a single RGA will consume approximately 25 GB per Year) |
| **NOTE:** This is every RGA for every tool connected to each Client. |

## Ordering Information

| Product Number: TWR-100-180 (per tool/instance) |
|---|
| TOOLweb RGA Version 3 Client |
| Real-time application for RGA Operation, SECS/HSMS communication management |
| FDC interfaces installed on virtual machines, local PCs* or servers |
| **Product Number: TWR-100-181 (fab-wide license)** |
| TOOLweb RGA Version 3 – Fab-Database Server Suite |
| Central SQL database |
| Management of sensor data and configurations |
| Database maintenance module |
| **Product Number: TW-100-182 (fab-wide license)** |
| TOOLweb RGA Version 3 – Fab-Enterprise Suite |
| TOOLweb RGA Version 3 Profiler is a desktop client application for enhanced data reporting, statistical data analysis and alarm definition/validation |
| Dashboard web application to visualized sensor and equipment status with a user configurable content management |

** For information and availability on MKS' Industrial PCs, please contact your local MKS office or sales representative.*

www.MKS.com

TOOLweb RGA 3_10/26
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