RheoSense
Simply Precise™

Clariti 2.0.0 Release Notes

Features:

- A new Home screen and step bar guide you through Load, Process and Analyze, with Reports always one click away.
- The Load page is now a run navigator. Pick a run to see its flow curve, zoom in to check it before you process, and see the viscosity of each run in the list.
- Reports have been redesigned. A setup dialog lets you choose the series, axis titles and logo, and the report is generated in the background with a Cancel button.
- Reports can be previewed as PDF pages and printed through the Windows print dialog. Several reports can be open at once as tabs, and you can edit the title and axis titles of a saved report.
- The Analyze graph has a new toolbar. Drawn lines can be added, undone and cleared from the right-click menu, the legend title now appears on the graph, and the legend can be resized from any edge, scrolled, or hidden from the menu.
- Shear stress can be plotted on either axis of the Analyze graph, and Run # on the X axis.
- Excel exports can include a native Excel chart of each series. All data can be exported to Excel or CSV without creating a series first.
- Injectability analysis now offers the full ISO 9626 needle gauge and wall table, and a new Loaded volume input gives the Injection time, both on the Injectability screen and in the reverse calculator.
- Refreshed Windows 11 light and dark themes that remember your choice. You can pick your own pass, fail and priming colors or use a color-blind-friendly preset.

- When you create a series from several runs, you can plot them as one series or one series per run. Pin to graph keeps other series in view while you work.
- A % Full Scale column has been added to the Analyze summary and to exports.

Improvements:

- Clariti now runs on .NET 10. The new installer installs the .NET 10 Desktop Runtime and the Microsoft Edge WebView2 Runtime for you if they are missing. If WebView2 is not already installed, setup downloads it, so an internet connection is needed in that case.
- Clariti 1.x must be uninstalled before Clariti 2.0 is installed. The installer detects 1.x and asks you to uninstall it first.
- Much faster overall. Loading databases, reprocessing and exporting run in the background with a progress overlay, large datasets select and analyze more quickly, and Clariti shows an animated startup screen instead of a frozen window.
- Steady-state points are now judged against the %FS thresholds at the onset point, whichever method found the onset. Some low-%FS segments that failed in 1.8.1 now pass.
- Onset detection no longer misses a steady-state plateau in the final window, and reprocessing starts fresh each time, so results no longer depend on earlier reprocesses. Some segments may get a different Quality Type than in 1.8.1.
- Model fit R^2 is now the standard regression R^2, which compares the fitted curve to the data. Values can be lower than in 1.8.1, especially for fits with fixed parameters.

- WRM, injection force and intrinsic viscosity series are shown in a tree under the series they came from. Intrinsic viscosity concentrations are entered on the IV series, with a badge that shows when the analysis is ready.
- The Series configuration and Series properties dialogs have been redesigned, and Cancel now undoes your changes. Series get distinct colors and marker shapes in run order.
- Enter data is now paste-first. Each cell is checked as you go, and entered standard deviations are shown as error bars.
- Reports and Excel/CSV exports include model fit results (model, convergence, parameters and R^2). Exports add ionic strength, pH and custom parameter columns, and report Sample properties show the range when runs differ.
- IF and WRM series now show error bars, and new WRM series default to log-log axes.
- The Preview graph has range navigation and inspection tools, and its raw, passed and failed points can be told apart without relying on color.
- Axes are edited inline with a live preview, and autoscaling handles small values and log axes better.
- Sample-retrieval segments can be hidden on the Load page when the database marks them, and the Load page shows instrument-specific reasons for failed segments. Quality Type now shows what it means in plain language.
- An empty graph explains why it is empty, and an injection force that cannot be calculated for a non-Newtonian sample shows N/A with the reason instead of NaN.
- The Audit window loads 1000 entries at a time in a sortable, filterable grid.

- The License window has been redesigned, with copy buttons and a summary you can send to your RheoSense representative.
- The user manual can be saved as a PDF from the Help menu, and the New features window is shown again after each update.
- A consistent look across the app, with theme-matched dialogs, clearer buttons and readable units.

Bug Fixes:

- Exported numbers and imported databases are no longer changed on computers with non-US regional settings.
- True shear rate and true viscosity are now exported, and ID, Sample Name and Vial stay as text in Excel.
- WRM correction no longer reports NaN for true viscosity and true shear rate when the data contains zero-stress rows.
- Disabled pressure channels no longer affect the reprocessed viscosity, and their flat traces are hidden on graphs.
- Reprocessing with an R^2 filter on no longer undoes and redoes the reprocess, and checked segments and the filter mode are kept.
- Series keep their segments when you move between steps or change the R^2 filter or segment selection.
- Plotted values and model curves are no longer rounded to 3 decimals, so Inverse Kelvin (Arrhenius) plots show their trend. Unfitted model curves are left out of reports and exports.
- The Huggins slope on the intrinsic viscosity report now has the correct sign.
- Intrinsic viscosity is no longer plotted or reported until the IV series' concentrations are valid.
- Standard deviation error bars on shear rate and chip temperature show the standard deviation, and range error bars on the injectability graph are drawn at half the range.

- Single-segment rows show their RSD instead of 0, and missing processed viscosity is no longer plotted as 0.
- The first Ross-Minton fit now starts from correct initial values.
- microVISC PRO raw data now stays on the same segment numbers as its processed data.
- m-VROC Excel imports no longer depend on the Windows date format, and converting .xls files no longer leaves Excel running in the background.
- A license registered to a different computer now shows this computer's ID and accepts a new key, and a computer clock set before the license start date is treated as expired.
- Fixed crashes when entering a negative molecular weight and when plotting IF series on manually entered data, along with many smaller stability fixes.