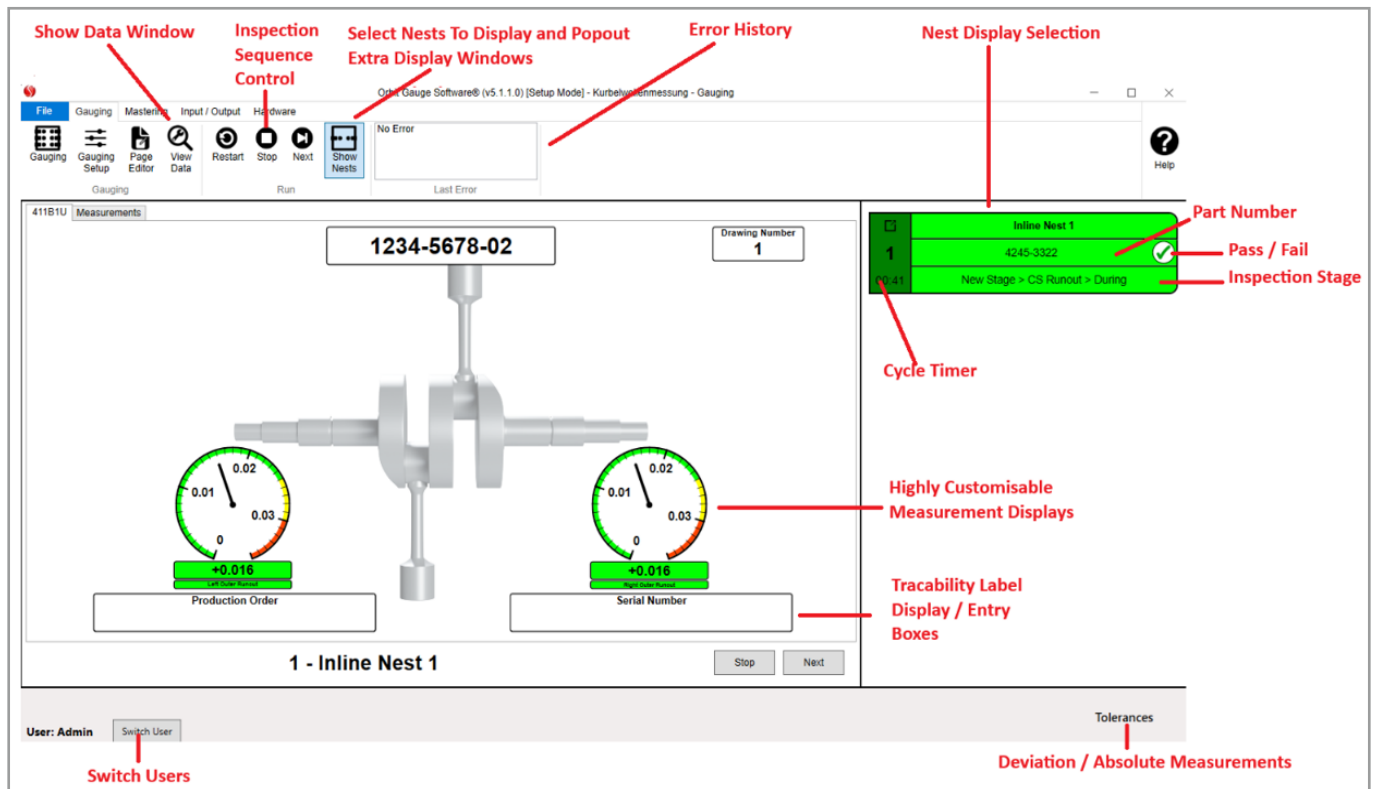


ORBIT® GAUGE SOFTWARE 5

Intuitive User Interface

Inspection/Mastering Pages in OGS5



The Page Editor is used to create screens that present measurement results and inspection information to users. The editor provides an intuitive, interactive method for building user interfaces for inspection equipment.

Creating a user interface is one of the most complex tasks when designing inspection sequences for any gauge equipment. It must be simple, user-friendly, and intuitive so that operators can understand its behaviour without experimentation, assistance, or specialist training.

Solartron Metrology's software design team has included standard functionality to simplify part inspection, monitor program status, and ensure traceability during and after the inspection process.

Highly configurable displays for measurements, input hardware, traceability labels, part attributes, control hardware logic, and images allow complex custom displays to be created within minutes.

During an inspection sequence, the Nest Display Panel shows which part is loaded into each gauge nest and the current step in the inspection sequence. Selecting a nest loads a collection of user-defined pages into the main screen, providing different views of the current part being measured.

Clicking the pop-out icon opens a new window, allowing additional views of the current part or views of other nests in the gauge.

The multiple display options, multi-window features, and highly customisable displays enable the rapid construction of a visually impressive and fully customisable gauging application—without writing a single line of code.

Part Data, Recent History, and Summary Pages in OGS5

The screenshot shows the 'Data (Kurbelwellenmessung)' window with three main panels:

- Parts:** A table listing inspection records for part 4245-3322.
- Measurements:** A table showing specific measurements for 'Left Outer Runout' and 'Right Outer Runout', both with values of +0.016 and status 'OK'.
- Labels:** A table showing production order, serial number, project revision (5), cycle time, and drawing number (1).

Name	Status	Timestamp	Cycle Time	Comment	User	Batch	Report
4245-3322	Accept	15/01/2026 11:15:15	21:56.33		None	Single Part	
4245-3322	Reject	15/01/2026 10:53:18	01:57.36		Admin	Single Part	
4245-3322	Accept	15/01/2026 10:50:58	36:17.47		None	Single Part	
4245-3322	Accept	15/01/2026 10:14:37	00:14.18		Admin	Single Part	
4245-3322	Accept	15/01/2026 10:14:22	00:26.83		Admin	Single Part	
4245-3322	Accept	15/01/2026 10:13:53	00:10.24		Admin	Single Part	

Enabled	Name	Affect Part Status	Value	Over / Under
✓	Left Outer Runout	✓	+0.016	OK
✓	Right Outer Runout	✓	+0.016	OK

Name	Value
Production Order	
Serial Number	
Project Revision	5
Cycle Time	
Drawing Number	1

Part data shows a comprehensive and searchable log of all previous inspections stored in the OGS 5 database. Part traceability labels and recorded attributes can be shown in additional display panels that can be displayed or hidden as required.

This screen also supports data export and report generation. In line with the OGS 5 philosophy of offering graphically rich display windows additional display options are available particularly for automated gauges.

The screenshot shows the 'Recent History (Kurbelwellenmessung)' window with a 'Filters' section showing 'Accept: 5' and 'Reject: 1'. The main table displays inspection results for various parts and features.

ID	Description	LST	UST	4245-3322						
				15/01/2026 11:15	15/01/2026 10:53	15/01/2026 10:50	15/01/2026 10:14	15/01/2026 10:13		
1	Left Outer Runout	-0.030	+0.030	+0.016	Reject	+0.004	+0.004	+0.010	+0.019	+0.003
2	Right Outer Runout	-0.030	+0.030	+0.016	+0.004	+0.004	+0.010	+0.009	+0.003	
3	Left Outer Runout	-0.035	+0.035							
4	Right Outer Runout	-0.035	+0.035							
5	Left Outer Runout	-0.010	+0.010							
6	Right Outer Runout	-0.010	+0.010							
7	Left Outer Runout	-0.030	+0.030							
8	Left Inner Runout	-0.030	+0.030							

The Recent History display shows recently inspected parts. Colour-coding of on-screen measurements makes it easy for an operator to recognise consecutive limit faults and take timely action.

The results can be filtered to show only accepted or rejected parts, and the view can be restricted to a single part (with additional windows available for displaying multiple part results). The number of parts displayed is configurable.

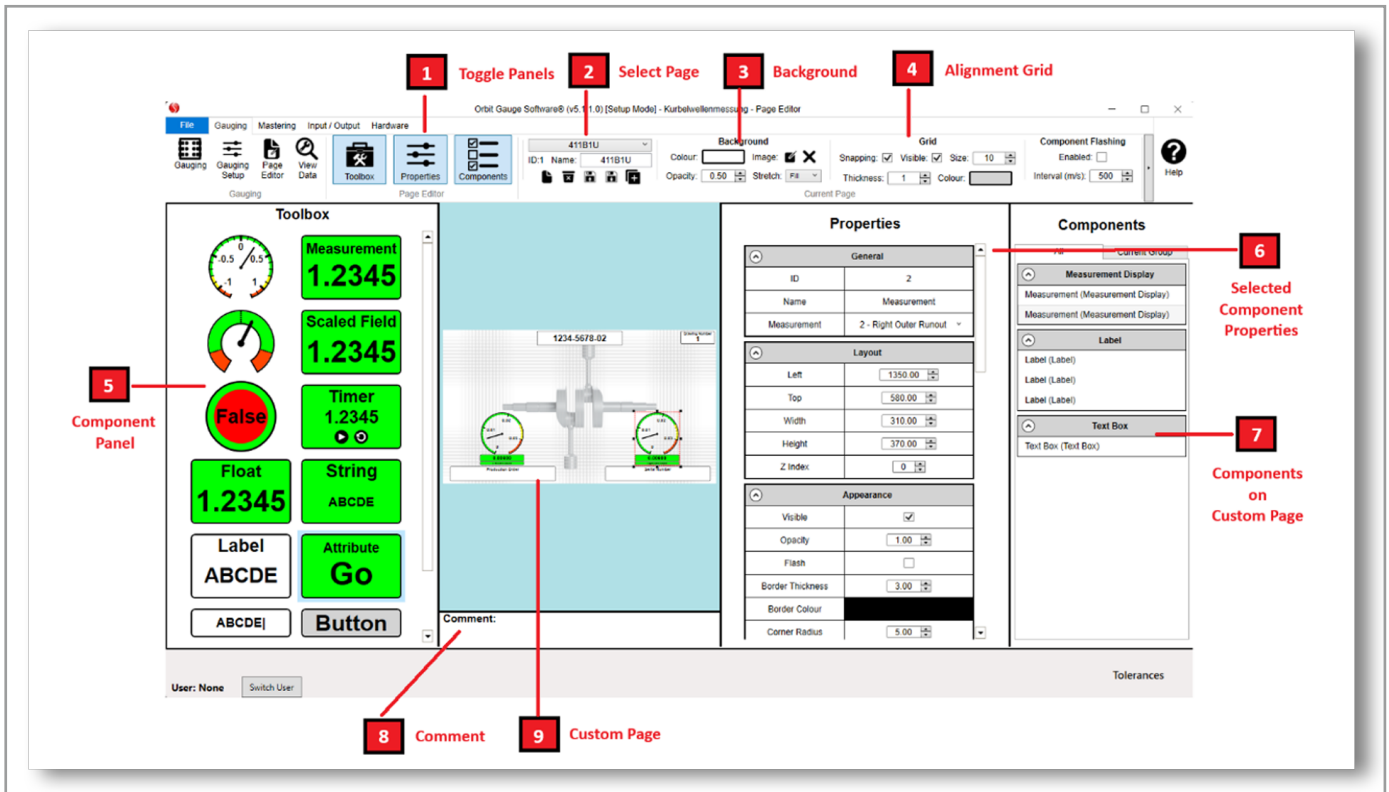
The last page gauge display provides a user-configurable graphical view of the last part measured. The display is tabbed, allowing multiple views of the same part.

The screenshot shows the 'Last Parts Gauged (Kurbelwellenmessung)' window for part 4245-3322. It features a 3D model of a crankshaft with two gauges showing a reading of +0.016. The display includes the following information:

- Part ID: 1234-5678-02
- Drawing Number: 1
- Production Order
- Serial Number

Page Editor in OGS5

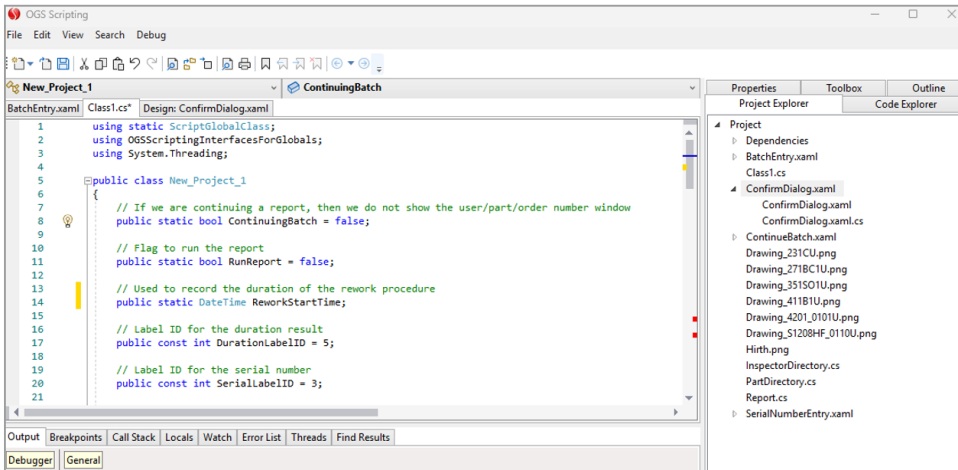
The Orbit Gauge Software 5 Page Editor consists of a menu ribbon, component panel, page designer, properties panel and components list.



1. Toggle buttons select which panels to display, allowing for more space to lay out the custom page or showing panels for more page configuration options.
2. The page control selects the current page being edited, also enables creation of new pages, page deletion, copying existing pages and page import and export.
3. The background control selects and image to use as the background. Opacity control ensure it does not overwhelm the page content. Stretch controls how the background resizes (ensuring the aspect ratio remains consistent or filling the available space)
4. The alignment grid assists with page layout. Snap to grid ensures page control alignment quickly and easily.
5. The components pane provides a comprehensive palette of page components to display or enter measurements, inputs, traceability information and part attributes. Buttons trigger built in functions or run user scripts.
6. The properties panel is customised for each page component. Each page component can be mapped to a source measurement or object here. Comprehensive display options are provided enabling the control to be customised depending on user requirements, for example more measurement displays on screen or more comprehensive information about each measurement.
7. The component list enables each page component to be discovered even if hidden behind other components. It also allows properties of multiple components to be changed.

Powerful Scripting IDE and Debugger

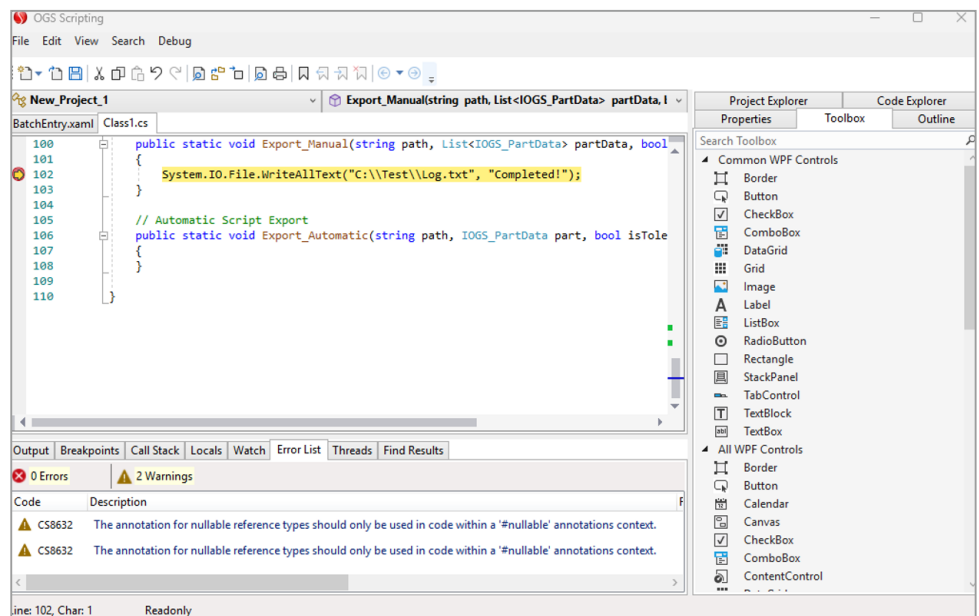
Scripting allows the base functionality of OGS 5 to be extended to support custom application functionality. OGS 5 sequence trees are significantly more powerful than in previous versions, reducing or eliminating the need for custom scripting in most common use cases. When required, scripting in OGS 5 enables power users and Solartron application engineers to implement complex functionality that would otherwise be difficult to achieve.



OGS 5 provides a powerful IDE integrated right into the application with code completion and WPF form designer.

Scripts are powered by the Microsoft .NET Core framework, which provides an extensive library of functionality that can be further expanded through third-party components. Scripts can be triggered during inspection and mastering, by custom page buttons and to run highly customised exports.

OGS 5's integrated IDE includes a fully featured, powerful debugger designed to make development faster and more reliable. The debugger can pause a running script at any point, giving engineers full visibility and control. Because the IDE runs in a separate window from the main application, OGS 5 continues operating normally while the debugger monitors execution, steps through breakpoints, and displays live variable values. This enables precise, efficient troubleshooting accelerating development and reducing downtime.





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