

Calisto View 1.1

User Guide

Introduction

Calisto View is a standalone application that provides simple access to available sample gas data monitored by Calisto instruments. Use it to connect to a single device to view historic samples, diagnostic condition assessments, and trends. Data for the date range you specify is organized simply and displayed in three separate tabs: Samples, Diagnostics and Trends.

Calisto View does not save data; however, you can export data. Sample data and related condition assessments can be exported in CSV format, and plotted charts can be exported in PDF format.

When you use Calisto View you can select a language for the interface. Contact Morgan Shaffer to inquire about translated versions of the User Guide.

The screenshot displays the Calisto View application interface. It is divided into three main sections: Calisto Connection Information, Transformer Characteristics, and Application Settings. Below these is a navigation bar with three tabs: Samples, Diagnostics, and Trends. The main area shows a table of gas data samples.

Calisto Connection Information			Transformer Characteristics			Application Settings								
Monitor Type:	C5/C9/C501/C901		Transformer Type:	TRN		Language:	English							
Calisto IP:	192 · 168 · 116 · 102		Oil Type:	Mineral		Calisto Monitor Information								
Calisto Port:	30		Date Range:	2025-01-15 To: 2025-01-23		Model:	Base							
Connection Type:	TCP/IP					Serial Number:	C250-20672							
<input type="button" value="Connect"/> <input type="button" value="Disconnect"/> <input type="button" value="Stop"/>			<input type="button" value="Reset"/> <input checked="" type="button" value="Apply"/> <input type="button" value="Export Samples"/> <input type="button" value="Export Chart"/>			Monitor Time:	2025-01-23 13 h 51							
Samples Diagnostics Trends														
Date	H2	CH4	C2H2	C2H4	C2H6	O2	N2	CO	CO2	Moisture	SF6	TDG	TDGC	THCG
2025-01-23 03 h 14 min	47							255		0				
2025-01-23 00 h 14 min	47							260		0				
2025-01-22 21 h 14 min	46							260		0				
2025-01-22 18 h 14 min	46							255		0				
2025-01-22 15 h 14 min	46							250		0				
2025-01-22 12 h 14 min	46							245		0				

REQUIREMENTS

1. Microsoft® Windows 10 or later (not compatible with RT architecture).
2. Microsoft .Net 9 Desktop Runtime (<https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/runtime-desktop-9.0.1-windows-x64-installer>)
3. Only suitable for compatible Morgan Schaffer monitoring equipment.
4. Easy to install. No pre-requisites. No license. No password. No frills.

Quick connect – Calisto C5/C9

1. Select C5/C9/C501/C901 for the **Monitor Type**.
2. Enter the **Calisto IP**, **Calisto Port** and select a **Connection Type**.
3. Click **Connect** to display data in the tabs: Samples, Diagnostics and Trends.
4. Select a **Transformer Type** and **Oil Type** to generate accurate assessments in Diagnostics.
5. Specify a **Date Range** to focus your inquiry. Large amounts of data for Samples and Diagnostics are displayed on multiple pages.
6. Click **Apply**.

The screenshot shows the 'Quick connect' interface for Calisto C5/C9. It is divided into three main sections: 'Calisto Connection Information', 'Transformer Characteristics', and 'Application Settings'.
- **Calisto Connection Information:** Includes 'Monitor Type' (C5/C9/C501/C901), 'Calisto IP' (192.168.116.102), 'Calisto Port' (30), and 'Connection Type' (TCP/IP). There are 'Connect', 'Disconnect', and 'Stop' buttons.
- **Transformer Characteristics:** Includes 'Transformer Type' (TRN), 'Oil Type' (Mineral), and 'Date Range' (2025-01-15 to 2025-01-23). There are 'Reset', 'Apply', 'Export Samples', and 'Export Chart' buttons.
- **Application Settings:** Includes 'Language' (English) and 'Calisto Monitor Information' (Model: Base, Serial Number: C250-20672, Monitor Time: 2025-01-23 13 h 51).

Quick connect – Calisto R9




1. Select CR9 for the **Monitor Type**.
2. Enter the **Calisto IP**, **Username** and **Password**.
3. Click **Connect** to display data in the tabs: Samples, Diagnostics and Trends.
4. Select a **Transformer Type** and **Oil Type** to generate accurate assessments in Diagnostics.
5. Specify a **Date Range** to focus your inquiry. Large amounts of data for Samples and Diagnostics are displayed on multiple pages.
6. Click **Apply**.

The screenshot shows the 'Quick connect' interface for Calisto R9. It is divided into three main sections: 'Calisto Connection Information', 'Transformer Characteristics', and 'Application Settings'.
- **Calisto Connection Information:** Includes 'Monitor Type' (CR9), 'Calisto IP' (.), 'Username' (admin), and 'Password' (.). There are 'Connect', 'Disconnect', and 'Stop' buttons.
- **Transformer Characteristics:** Includes 'Transformer Type' (TRN), 'Oil Type' (Mineral), and 'Date Range' (2025-01-15 to 2025-01-23). There are 'Reset', 'Apply', 'Export Samples', and 'Export Chart' buttons.
- **Application Settings:** Includes 'Language' (English) and 'Calisto Monitor Information' (Model: N/A, Serial Number: N/A, Monitor Time: N/A).


Simple views

Data is displayed in three tabs:

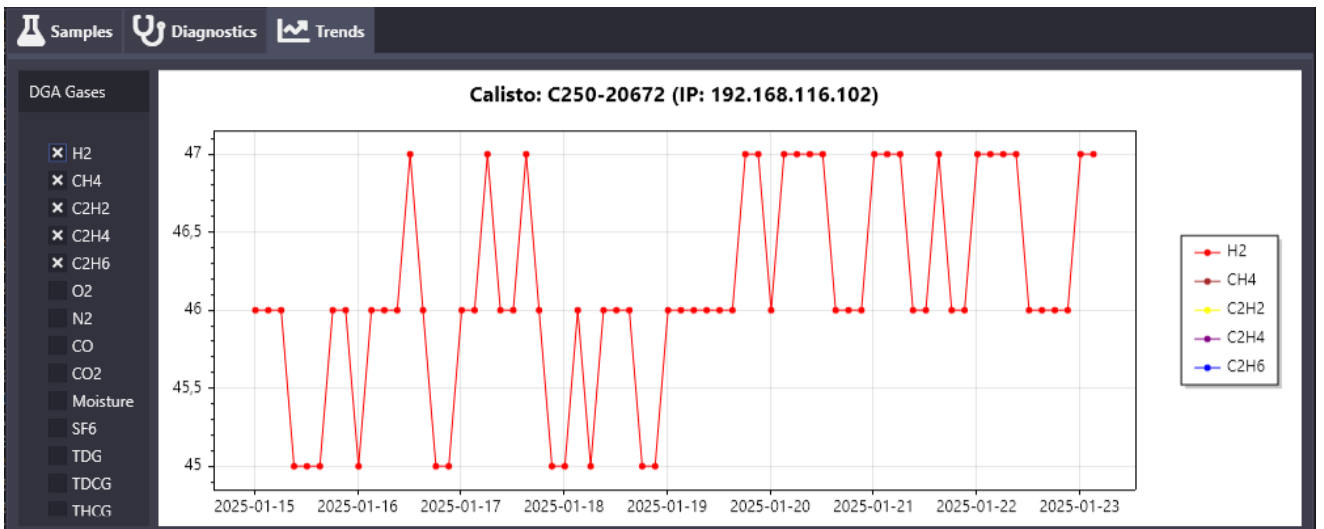
- The **Samples** tab displays available sample data in a simple table sorted by date.

<div> <div> Samples</div> <div> Diagnostics</div> <div> Trends</div> </div>														
Date	H2	CH4	C2H2	C2H4	C2H6	O2	N2	CO	CO2	Moisture	SF6	TDG	TDCG	THCG
2025-01-23 03 h 14 min	47							255		0				
2025-01-23 00 h 14 min	47							260		0				
2025-01-22 21 h 14 min	46							260		0				
2025-01-22 18 h 14 min	46							255		0				
2025-01-22 15 h 14 min	46							250		0				
2025-01-22 12 h 14 min	46							245		0				
2025-01-22 09 h 14 min	47							255		0				
2025-01-22 06 h 14 min	47							255		0				
2025-01-22 03 h 14 min	47							255		0				
2025-01-22 00 h 14 min	47							245		0				
2025-01-21 21 h 14 min	46							250		0				
2025-01-21 18 h 14 min	46							255		0				
2025-01-21 15 h 14 min	47							255		0				

- The **Diagnostics** tab displays the main gases and condition assessments for each sample using diagnostic methods: Duval Triangle, IEC ratios, Rogers Ratios and Key Gas. It also indicates the condition level based on key gases, as indicated in the IEEE C57.104-2008 standard.

<div> <div> Samples</div> <div> Diagnostics</div> <div> Trends</div> </div>														
Date	H2	CH4	C2H2	C2H4	C2H6	CO	Duval Triangle		Rogers Gas Ratios		IEC 60599 Gas Ratios		D	
2025-01-23 03 h 14 min	47					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-23 00 h 14 min	47					260	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 21 h 14 min	46					260	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 18 h 14 min	46					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 15 h 14 min	46					250	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 12 h 14 min	46					245	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 09 h 14 min	47					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 06 h 14 min	47					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 03 h 14 min	47					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-22 00 h 14 min	47					245	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-21 21 h 14 min	46					250	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-21 18 h 14 min	46					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			
2025-01-21 15 h 14 min	47					255	No Exceeded Limit		No Exceeded Limit		No Exceeded Limit			

- The **Trends** tab displays data for the gases you select in a single chart. To accommodate multiple gases displayed on one chart, the Y axis uses a logarithmic scale.



Easy export

Use the Export function to generate an output file of the viewed data.

To export tabular data (samples and diagnostics):

1. Specify a **Date Range** for the data you want to capture.
2. Click **Export Samples** and choose a destination to save the CSV file.

To export charted data (trends):

1. Specify a **Date Range** for the data you want to capture.
2. Click the Trend tab and select the gases you want to display in the chart.
3. Click **Export Chart** and choose a destination to save the PDF file.