

Calisto View 1.1

User Guide

Introduction

Calisto View 1.0 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 1.1 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 content area shows a table of gas data samples.

| Date | H2 | CH4 | C2H2 | C2H4 | C2H6 | O2 | N2 | CO | CO2 | Moisture | SF6 | TDG | TDG2 | 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 configuration interface for Calisto C5/C9. It is divided into three main sections: Calisto Connection Information, Transformer Characteristics, and Application Settings. In the Calisto Connection Information section, the Monitor Type is set to 'C5/C9/C501/C901', Calisto IP is '192 · 168 · 116 · 102', Calisto Port is '30', and Connection Type is 'TCP/IP'. In the Transformer Characteristics section, Transformer Type is 'TRN', Oil Type is 'Mineral', and Date Range is '2025-01-15' to '2025-01-23'. In the Application Settings section, Language is 'English'. Below these sections are buttons for 'Connect', 'Disconnect', 'Stop', 'Reset', 'Apply', 'Export Samples', and 'Export Chart'. On the right side, there is a 'Calisto Monitor Information' section with fields for Model (Base), Serial Number (C250-20672), and 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 configuration interface for Calisto R9. It is divided into three main sections: Calisto Connection Information, Transformer Characteristics, and Application Settings. In the Calisto Connection Information section, the Monitor Type is set to 'CR9', Calisto IP is empty, Username is 'admin', and Password is empty. In the Transformer Characteristics section, Transformer Type is 'TRN', Oil Type is 'Mineral', and Date Range is '2025-01-15' to '2025-01-23'. In the Application Settings section, Language is 'English'. Below these sections are buttons for 'Connect', 'Disconnect', 'Stop', 'Reset', 'Apply', 'Export Samples', and 'Export Chart'. On the right side, there is a 'Calisto Monitor Information' section with fields for Model (N/A), Serial Number (N/A), and 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.

| 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.

| 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.

