

Myrkos View 1.1

User Guide

Introduction

Myrkos View 1.1 is a standalone application that provides simple access to available sample gas data monitored by Myrkos portable DGA. Use it to connect to a Myrkos portable DGA monitor database to view historic samples, diagnostic condition assessments and trends for a specific asset. Data is organized simply and displayed in three separate tabs: Samples, Diagnostics and Trends.

Myrkos View does not save data; however, it does allow users to export data. Sample data and related condition assessments can be exported in CSV format and plotted charts can be exported in PNG format.

Myrkos View allows you to select the language of the interface. For translated versions of the User Guide, contact Morgan Shaffer.

The screenshot displays the Myrkos View application window. At the top, there's a title bar with 'Myrkos View', a 'Dark' theme toggle, a version indicator '1.0.0.0', and standard window controls. Below the title bar is a 'Transformer Characteristics' section with a form for inputting asset details. The form includes fields for Equipment (Transformer #1), Transformer Type (TRN), Oil Type (Mineral), Serial Number (Z51552A1), Substation (MAPLE), Manufacturer (ANON), Year of Manufacture (1993), Designation, Model, MVA (342.2), and KVA (454.54). There are also 'Export Samples' and 'Export Chart' buttons. Below the form is a tabbed interface with 'Samples', 'Diagnostics', and 'Trends' tabs. The 'Samples' tab is active, showing a table of gas sample data. The table has columns for Date, H2, CH4, C2H2, C2H4, C2H6, O2, N2, CO, CO2, TDG, TDCG, THCG, and Oil Temp. The data shows a series of samples from 2009-11-06 to 2009-11-16. At the bottom of the window, there's a language dropdown set to 'English' and a status bar indicating 'Total number of samples: 3611'.

Date	H2	CH4	C2H2	C2H4	C2H6	O2	N2	CO	CO2	TDG	TDCG	THCG	Oil Temp
2009-11-16 00 h 00 min	75	23	3	76	87	7	8	645	3	3000	4000	1000	0,1
2009-11-15 00 h 00 min	54	22	3	56	65	7	8	545	3	3000	4000	1000	0,1
2009-11-14 00 h 00 min	32	44	2	45	45	7	8	656	3	3000	4000	1000	0,1
2009-11-13 00 h 00 min	12	12	1	4	42	7	8	2	3	3000	4000	1000	0,1
2009-11-12 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-11 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-10 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-09 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-08 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-07 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1
2009-11-06 00 h 00 min	0	1	6	4	5	7	8	2	3	3000	4000	1000	0,1

REQUIREMENTS

1. Microsoft® Windows 10 or later.

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. Install the Myrkos View 32-bits version if Microsoft Office is 32-bits else install the Myrkos View 64-bits version.
4. Download and install Microsoft Access Database Engine (<https://www.microsoft.com/en-us/download/details.aspx?id=54920>).

The same rule applies here. Install the 32-bits version (accessdatabaseengine.exe) if Microsoft Office is 32-bits else install the 64-bits version (accessdatabaseengine_X64.exe).

5. Compatible only with Morgan Schaffer PPM Report
6. Easy to install. No pre-requisites. No license. No password. No frills.

Quick connect

1. Open Myrkos View
2. Select an equipment to analyze
3. Select a **Transformer Type** and **Oil Type** to generate accurate assessments in Diagnostics.

Simple views

Data is displayed in three tabs:

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

Samples

Diagnostics

Trends

Date

H2

CH4

C2H2

C2H4

C2H6

O2

N2

CO

CO2

TDG

TDCG

THCG

Oil Temp

2009-11-16 00 h 00 min

75

23

3

76

87

7

8

645

3

3000

4000

1000

0,1

2009-11-15 00 h 00 min

54

22

3

56

65

7

8

545

3

3000

4000

1000

0,1

2009-11-14 00 h 00 min

32

44

2

45

45

7

8

656

3

3000

4000

1000

0,1

2009-11-13 00 h 00 min

12

12

1

4

42

7

8

2

3

3000

4000

1000

0,1

2009-11-12 00 h 00 min

0

1

6

4

5

7

8

2

3

3000

4000

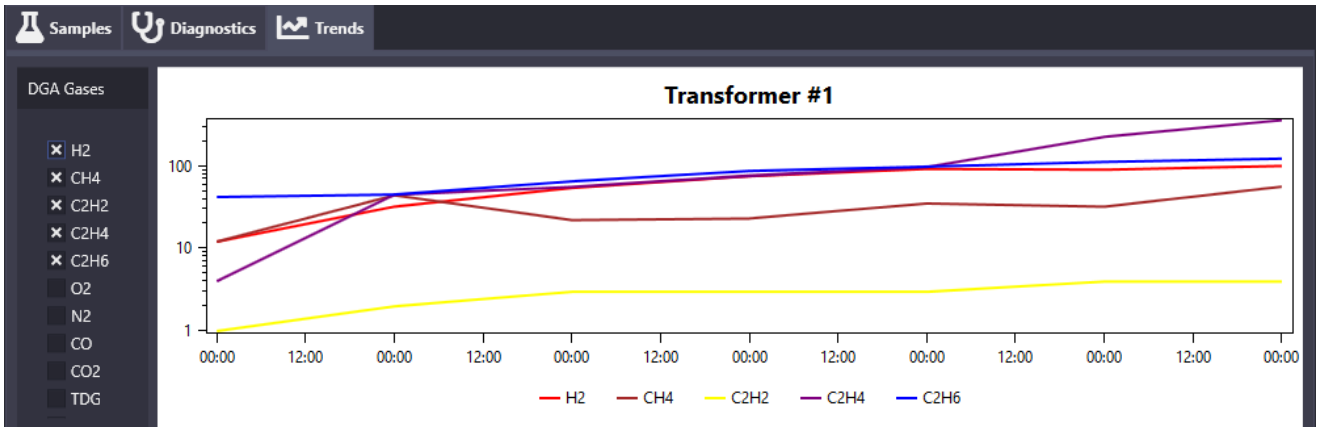
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0,1

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

Samples		Diagnostics		Trends							
Date	H2	CH4	C2H2	C2H4	C2H6	CO	Duval Triangle	Duval Triangle 4	Duval Triangle 5	Duval Pentagon	Rogers Gas Ratios
2009-11-19 00 h 00 min	100	56	4	357	123	900	T3 = Thermal faults, T > 70	No analysis needed at this	C = Hot spots with carbon	T3 = Thermal faults, T > 70	Low temp thermal fault
2009-11-18 00 h 00 min	90	32	4	224	112	854	T3 = Thermal faults, T > 70	No analysis needed at this	T3 = Thermal faults, T > 70	T1 = Thermal faults of ter	Low temp thermal fault
2009-11-17 00 h 00 min	92	35	3	96	98	435	T3 = Thermal faults, T > 70	No analysis needed at this	T3 = Thermal faults, T > 70	S = Stray gassing of miner	Normal operation
2009-11-16 00 h 00 min	75	23	3	76	87	645	T3 = Thermal faults, T > 70	No analysis needed at this	T3 = Thermal faults, T > 70	S = Stray gassing of miner	Normal operation
2009-11-15 00 h 00 min	54	22	3	56	65	545	T3 = Thermal faults, T > 70	No analysis needed at this	T3 = Thermal faults, T > 70	S = Stray gassing of miner	Normal operation
2009-11-14 00 h 00 min	32	44	2	45	45	656	T2 = Thermal faults, 300 °C	S = Stray gassing of miner	N/D = Not determined	T1 = Thermal faults of ter	Thermal fault temp. rang
2009-11-13 00 h 00 min	12	12	1	4	42	2	DT = Mixtures of electrical	No analysis needed at this	No analysis needed at this	S = Stray gassing of miner	Unknown fault

- 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. Click **Export Samples** and choose a destination to save the CSV file.

To export charted data (trends):

1. Click the Trend tab and select the gases you want to display in the chart.
2. Click **Export Chart** and choose a destination to save the PNG file.