INSTRUMENTS

GX-6100 Data Logger

Operator's Manual

Part Number: 71-0705

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RKI Instruments, Inc.
www.rkiinstruments.com

Table of Contents

CAUTION: *Read and understand this manual before using the GX-6100 Data Logger. Also read and understand the GX-6100 Operator's Manual included with the GX-6100 portable gas detection unit.*

Chapter 1: Introduction

Overview

Using an advanced detection system consisting of up to four gas sensors, the GX-6100 detects the presence of combustible gases, oxygen (O_2), carbon monoxide (CO), and hydrogen sulfide (H_2S) simultaneously. The compact size and easy-to-use design make it ideally suited for a wide range of applications as described in the *GX-6100 Operator's Manual*. Please read the *GX-6100 Operator's Manual* before using the GX-6100 Data Logger.

The GX-6100 Data Logger downloads stored data from the GX-6100 to a Windows-based PC. Data can be viewed, saved, or printed using your computer and the GX-6100 Data Logger.

The purpose of this manual is to explain how to use and set up the GX-6100 Data Logger. This document covers the following procedures:

- installing and launching the software
- connecting the instrument to the PC
- accessing and storing data in a common database
- downloading data from the GX-6100
- viewing, printing, and saving data
- changing data logging parameters
- creating user and station IDs
- changing the appearance of the program screens
- changing the color of graphed readings for a particular gas

Before you get started, be sure to review the system requirements in the next section.

CAUTION: *The GX-6100 detects oxygen deficiency and elevated levels of oxygen, combustible gases, carbon monoxide, and hydrogen sulfide, all of which can be dangerous or life threatening. When using the GX-6100, you must follow the instructions and warnings in the GX-6100 Operator's Manual to assure proper and safe operation of the unit and to minimize the risk of personal injury.*

CAUTION: *If the equipment is used in a manner not specified in this manual, the protection provided by the equipment may be impaired.*

System Requirements

To use the GX-6100 Data Logger, your personal computer must meet the following requirements:

- **Operating Systems:** Windows® 8, Windows® 10, or Windows® 11
- **Memory:** 32 MB RAM minimum
- **Available Hard Disk Space:** 32 MB minimum
- **USB Support:** An available USB port

GX-6100 Data Logging Capacity

Table 1 below lists the GX-6100's data logging capacity for each interval trend time setting assuming no alarms or other events. The interval trend time setting can be set using the Set Window (see "Changing Instrument Parameters" on page 45).

Table 1: GX-6100 Data Logging Capacity (Interval Trend Data)

Interval Trend Time	Data Logging Hours
10 seconds	10 hours
20 seconds	20 hours
30 seconds	30 hours
60 seconds	60 hours
180 seconds (3 minutes)	180 hours
300 seconds (5 minutes), factory setting	300 hours
600 seconds (10 minutes)	600 hours

Table 2 lists the GX-6100's data logging capacity for all non-interval trend data logs. If the number of items exceeds a data type's limit, the oldest data will be overwritten by the latest data.

Table 2: Non-Interval Trend Data Capacities

Log Type	Logging Limit (Before Data Overwrite)
Alarm Trend Data	8 events
Alarm Event Data	100 events
Trouble Event Data	100 events
Bump Tests and Calibrations	100 events

Chapter 2: Setup

Installing the GX-6100 Data Logger

1. Launch Windows®.
2. Exit from all applications and open windows.
3. Go to www.rkiinstruments.com/GX-6100.
4. Click on the **Download** tab.
5. Click the **GX-6100 Data Logger** link.
6. A .zip file will begin to download. Select whether you want to open or save the .zip file.
7. Extract the contents of the .zip file.
8. Double click the **setup.exe** file.
9. Follow the on-screen instructions in the InstallShield Wizard Window to install the program.
10. If the InstallShield Wizard finds versions of Windows® files on your computer newer than those in the downloaded .zip file, it will ask you if you want to keep these newer files. Click **Yes**.
11. When the InstallShield Wizard indicates that installation is complete, click the **Finish** button.

Accessing a Common Database

The GX-6100 Data Logger program automatically stores downloaded data in a database file on the computer's hard drive in the same folder as the Data Logger program. In this configuration, a computer has access to its own database but no other computer's. Only data downloaded to that computer may be viewed.

The Data Logger program can map its database to another file location on the same computer or on a network. Putting the database on a network location allows multiple users to save data to and access data from the same location. All computers accessing that database can view all data that is downloaded from any computer.

NOTE: Only one software installation mapped to a common database can be running at a time. If two installations attempt to access the same database, an error indication will appear when the second program is launched.

1. Determine where the database is going to be located and make a note of that file path.
2. If the Data Logger program hasn't been launched on the computer yet, you must launch and close the program. This creates a GX-6100.ini file that contains configuration settings.

3. Locate the GX-6100.ini file by searching your C drive for “GX-6100.ini”.

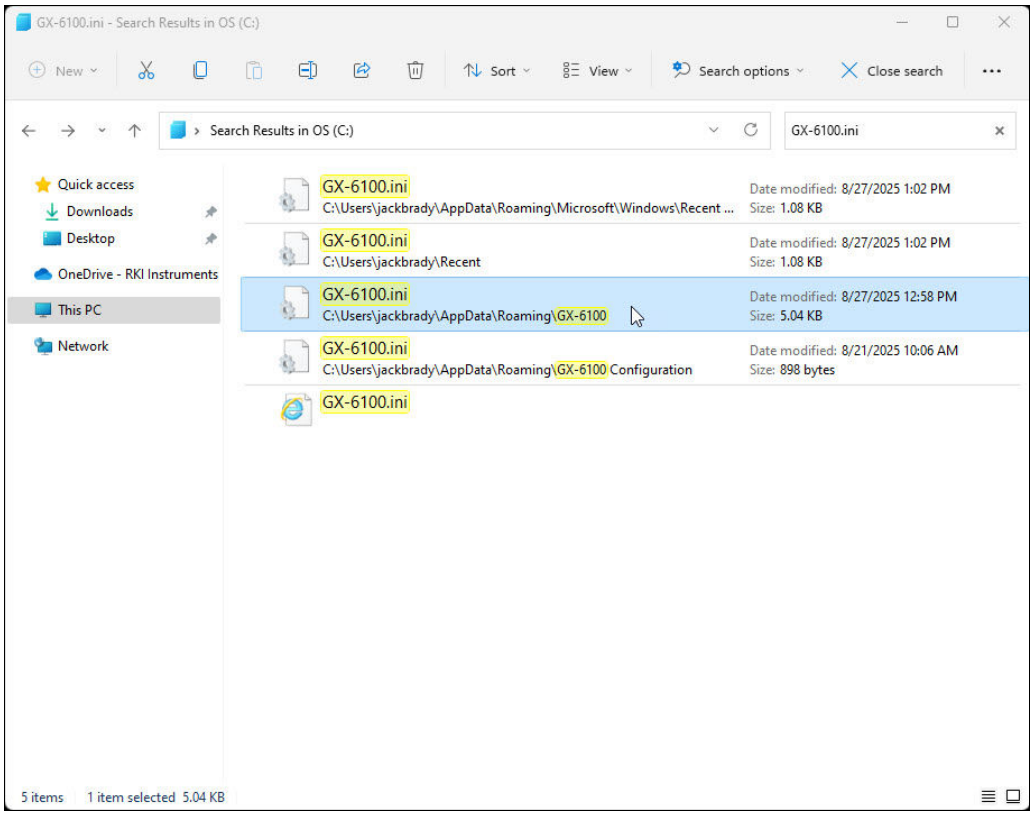

Figure 1: GX-6100.ini File Found on C Drive

4. Double click the GX-6100.ini file and open it in Notepad.

5. Scroll down to the very last line. This line is the Data Location path. An example of the path created by the program is shown in Figure 2.

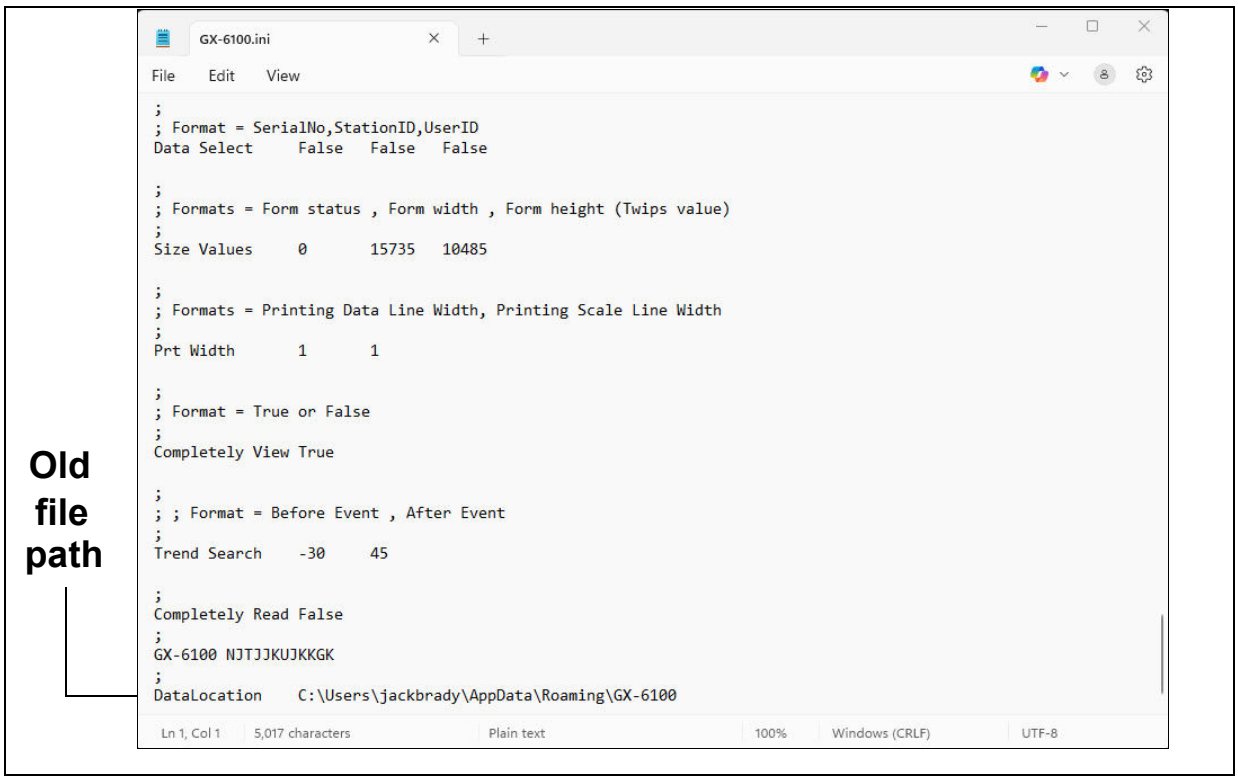

Figure 2: GX-6100.ini File with Original Path

6. Replace the current path with the desired path.

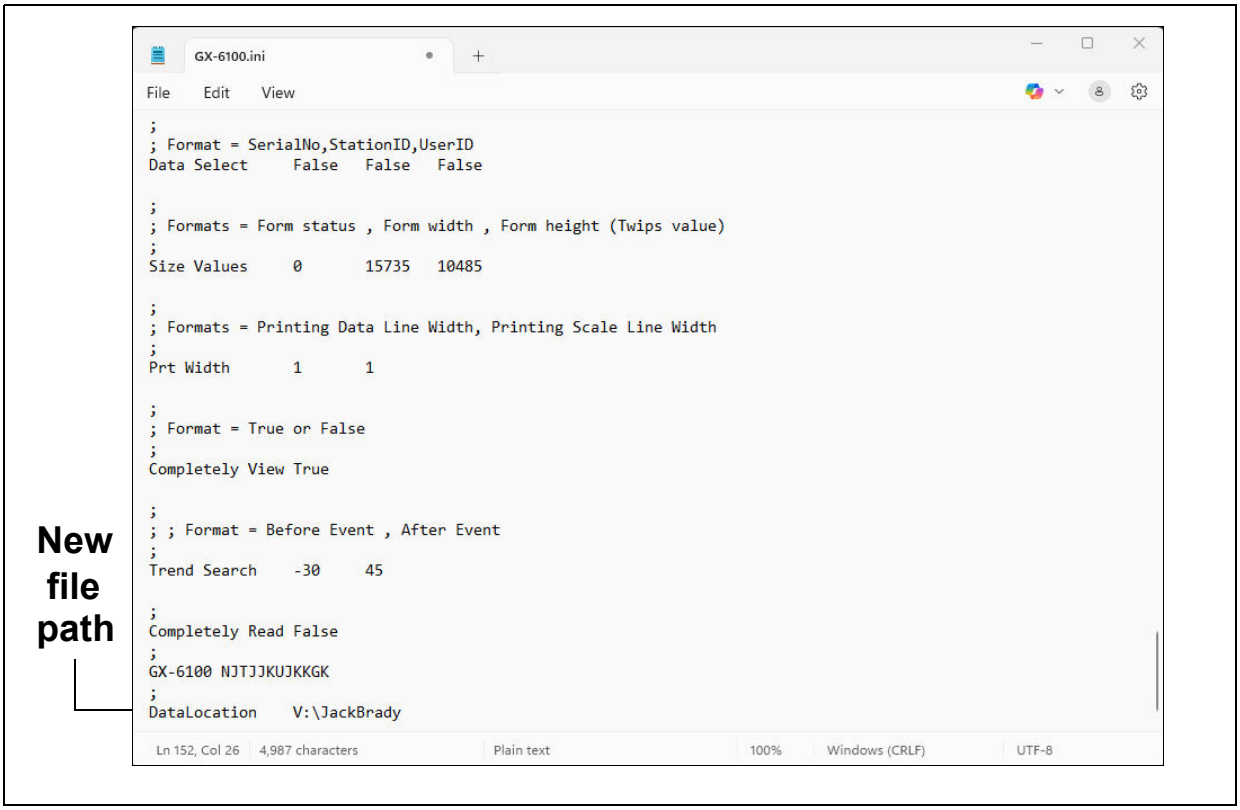

Figure 3: GX-6100.ini File with New Path

7. Save the file and reopen the Data Logger.
8. When you launch the program again, a database will be created in the specified location.
9. Repeat Step 2 - 5 for all installations that need access to the common database.

IrDA Downloading Cable

The instrument communicates with a computer via an on-board infrared communication port that complies with IrDA 1.1 protocol standards.

NOTE: If your computer has a built-in infrared port that complies with IrDA 1.1 protocol, you do not need an adapter cable to download data.

If your computer does not have an infrared port, you will need to install an IrDA 1.1 compliant IrDA/USB adapter cable on your computer. An IrDA/USB cable is available from RKI Instruments, Inc. See the Spare Parts List at the end of this manual for the RKI part number.

Installing an IrDA Adapter Cable

NOTE: Do not plug the IrDA/USB adapter cable into your computer before installing the driver.

Follow the manufacturer's instructions for installing the cable on your computer. If you do not have instructions from the cable manufacturer for installing your cable, see your Windows documentation. In general, you must go to the Control Panel and use the Device Manager to install the cable drivers. RKI makes no warranty for the operation or compatibility of the drivers with any particular device.

Chapter 3: Operation

Launching the Program

1. Double click the **GX-6100** shortcut on the computer desktop or navigate to the **GX-6100** program using the **Start** menu.
2. The program will launch and the Download window will appear.

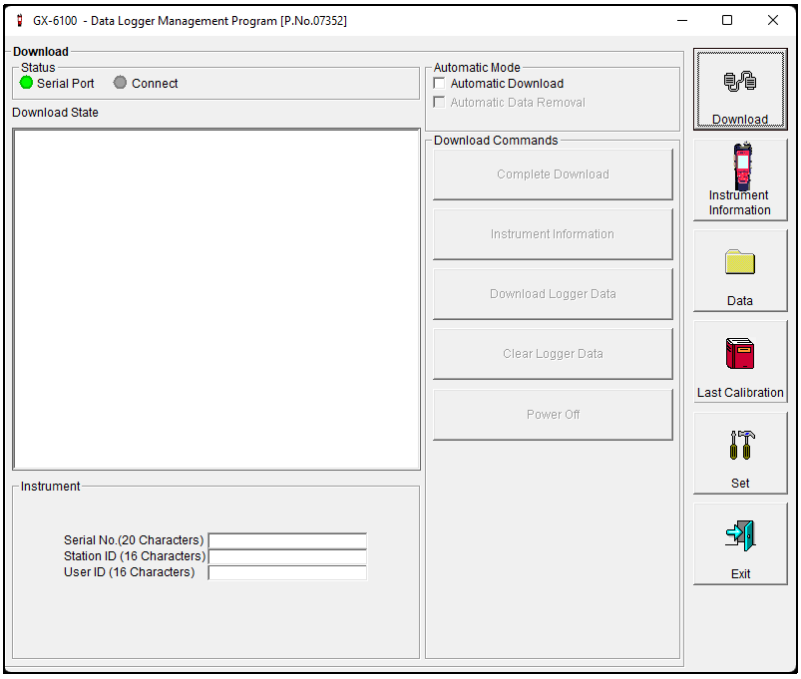

Figure 4: The Download Window

Connecting an Instrument

1. If an IrDA adapter is in use, insert the adapter's USB cable into the computer's USB port.
2. Launch the GX-6100 Data Logger by double-clicking the **GX-6100** shortcut on the computer desktop or navigate to the **GX-6100** program using the **Start** menu.

3. Place the GX-6100 within 1-2 inches of the infrared port on your computer aligning the GX-6100's infrared port below the LCD with the infrared port on your computer.

   If your computer does not have a built in infrared port, place the GX-6100 within 1-2 inches of the infrared port on the IrDA adapter cable as shown in Figure 5 below, aligning the infrared port on the front of the GX-6100 with the infrared port on the cable.

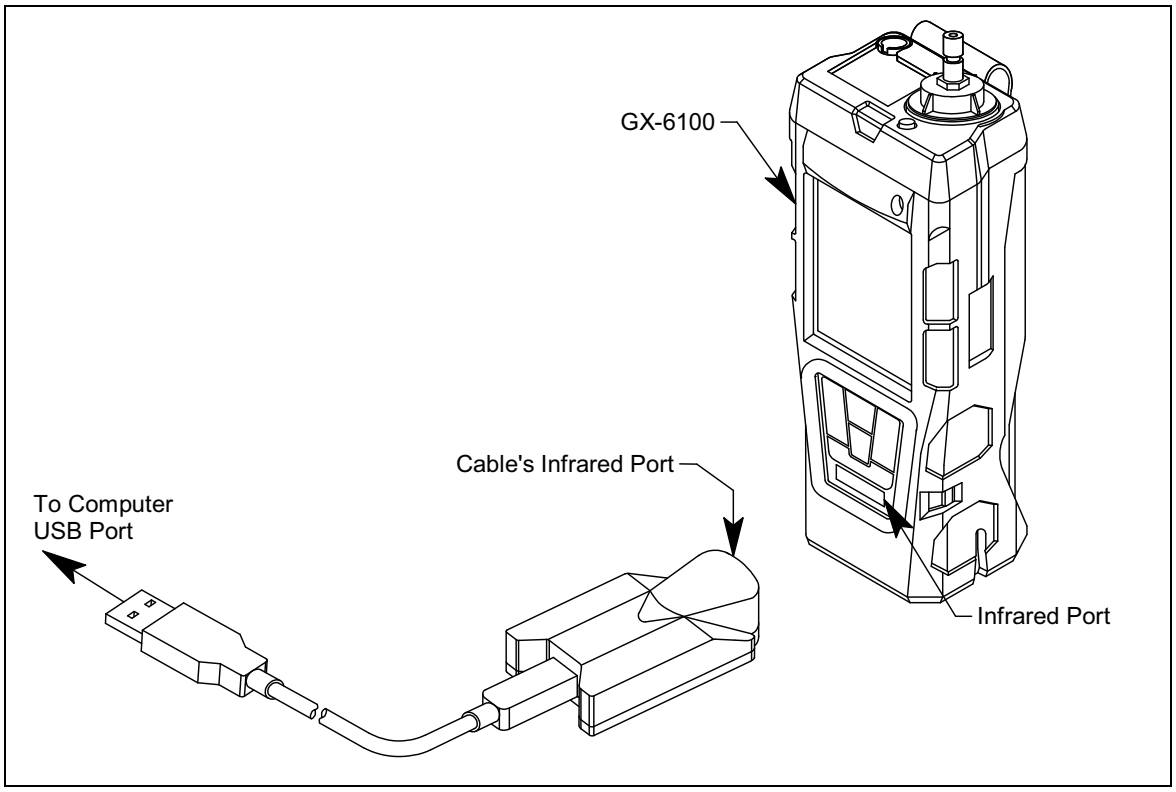

Figure 5: Aligning the GX-6100 with the IrDA Cable

4. Press and hold the POWER ENTER RESET button on the GX-6100 until you hear a beep, then release it.

5. The instrument will begin its power up sequence. If **Leak Check Bar Hole**, **Leak Check Mode**, or **Bar Hole Mode** are enabled, the Mode Select screen appears. Press the POWER ENTER RESET button to continue the power up sequence.

   If you do not press a button for 20 seconds, the instrument will automatically continue.

6. When a successful connection between the instrument and the computer occurs, the GX-6100 displays the screen below.

   In the GX-6100 Data Logger application, the Connect status light turns green and "Connection Successful." appears in the Download State field.

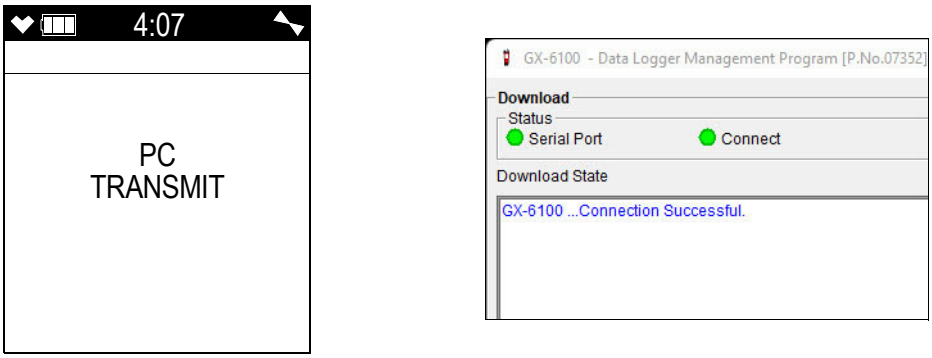

Figure 6: Connection Messages

Downloading Data from an Instrument

Automatic Downloading

1. Select the **Automatic Download** selection box.

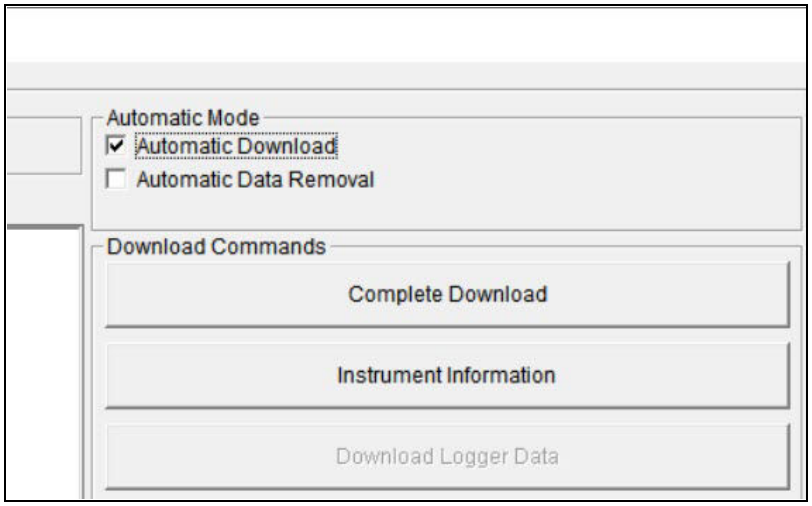

Figure 7: Automatic Download Selection Box

2. A caution message appears. If **Automatic Download** is selected, the download commands are not active. However, if a GX-6100 is connected when you select the **Automatic Download** box, the download commands will remain active until that instrument is disconnected.

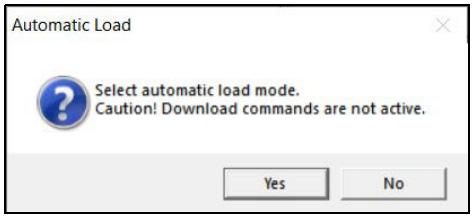

Figure 8: Automatic Download Selection Box

3. If you want the data in the instrument to be automatically cleared after an automatic download, select the **Automatic Data Removal** box. The **Automatic Data Removal** box is only available for selection if the **Automatic Download** box is selected.
4. Connect an instrument as described in "Connecting an Instrument" on page 11.
5. A download begins automatically after a successful connection is made.
6. The instrument will turn off automatically after the data has been downloaded.

Manual Downloading

1. To download logged data and instrument information from the instrument, click **Complete Download**.
2. To download instrument information only, click **Instrument Information.**
3. To download logged data only, click **Download Logger Data. Download Logger Data** becomes selectable only after doing a Complete Download or Instrument Information Download.

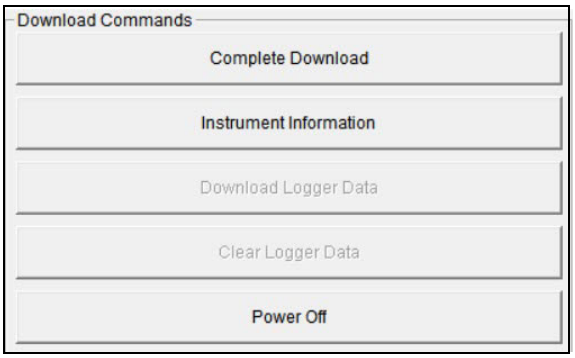

Figure 9: Download Commands

4. While the data is downloading, the message area of the Download window indicates program actions, communication or downloading problems, and what type of information has been downloaded.

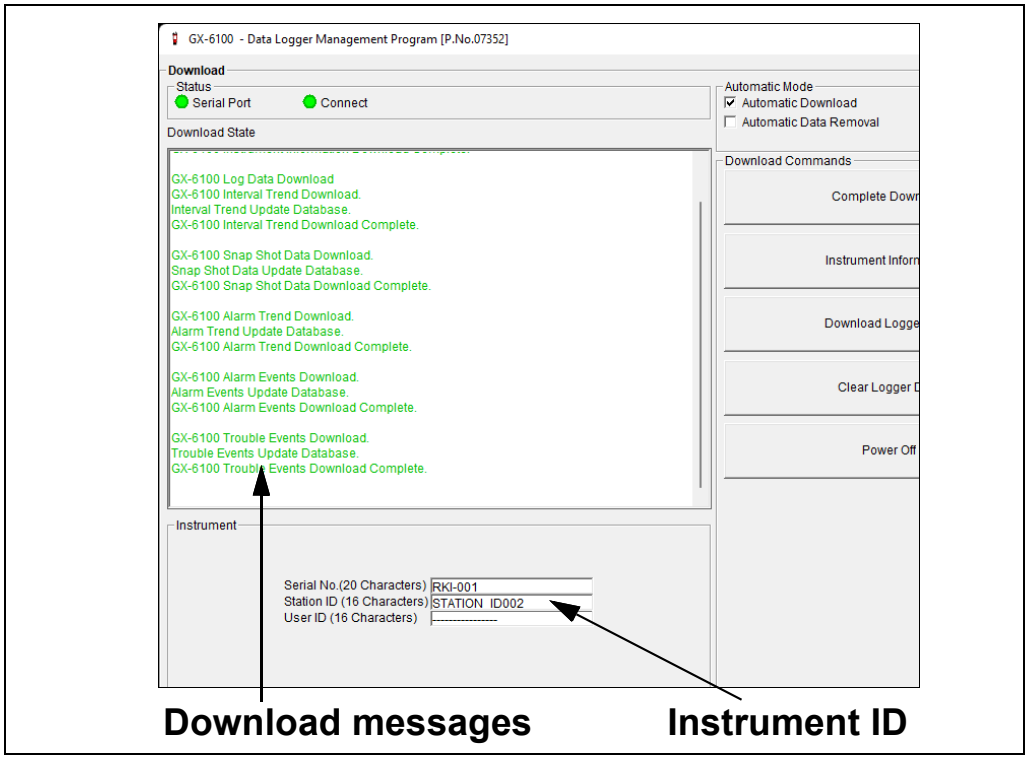

Figure 10: Download Messages & Download Commands

5. After downloading data from an instrument, you can delete all the data in the instrument by clicking **Clear Logger Data**. This will not delete instrument parameters such as serial number, alarm settings, or auto calibration settings.

WARNING: ***If you click Clear Logger Data, all data is erased in the instrument but not in your computer's memory. It is advised to download the data from the instrument first before clearing the data.***

Turning Off an Instrument

1. Click **Download**.
2. Click **Power Off**. The instrument will shut off.
3. Click **Exit** in the bottom right corner of the program.

NOTE: If you shut down the GX-6100 Data Logger without turning off the instrument, the instrument will go into alarm after 3 minutes to indicate that it is still on but not connected to a program. Reset the alarm by either a) starting up the GX-6100 Data Logger and establishing a connection or b) using the instrument's POWER MODE button to turn the instrument off.

Chapter 4: Instrument Information Window

1. Connect an instrument and manually perform a **Complete Download** or **Instrument Information** download as described in “Connecting an Instrument” on page 11 and “Manual Downloading” on page 14.

2. Click **Instrument Information**.

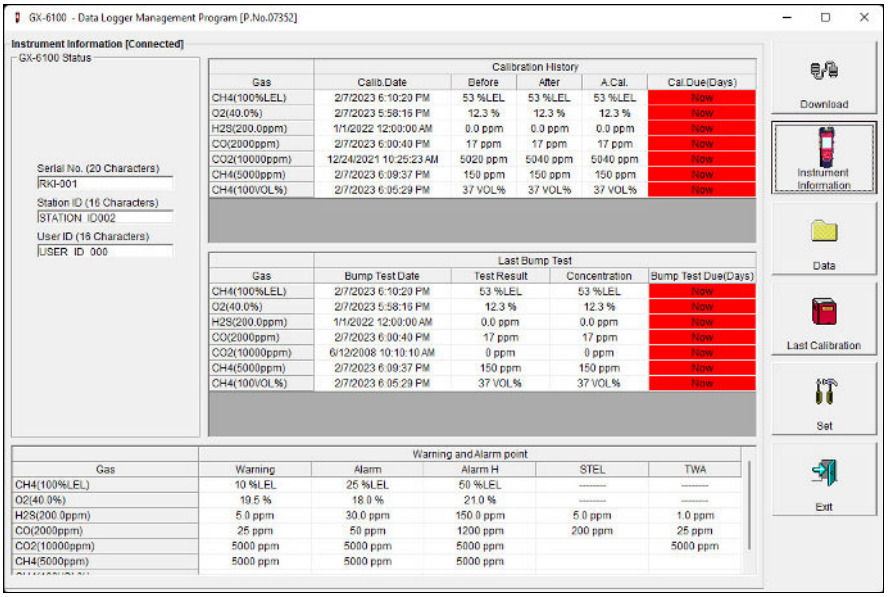

Figure 11: Instrument Information Window

3. The serial number, station ID, user ID, calibration and bump test history, and alarm points for the connected instrument will be visible.

4. A sensor that is currently in a sensor life warning condition will have a “!” next to the gas name in the Calibration History section.

5. If the instrument is turned off after being connected to the program, the information in the **Instrument Information** window will disappear.

Chapter 5: Data Window

The instrument logs six types of data files: bump test data, calibration history, event data, snap log data, interval trend data, and alarm trend data.

You can view, print, export (save to a file), and delete each of these types of data files. The deleting of files is password protected and is described in “Deleting Data in the Data Window” on page 37.

NOTE: If the GX-6100 Data Logger Program database is on the user’s computer (default setting), data will only appear for instruments downloaded to that computer. If the database is on a network, data will appear for all instruments downloaded to that database. See “Accessing a Common Database” on page 6 for more instruction.

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1. Click **Data** on the right side of the program window. The Data Window will appear.

Figure 12: Data Window

2. Click the selection box or boxes in the lower left frame to organize the data as desired. The data may be organized by one or more of the following parameters: serial number, station ID, or user ID. If none of the boxes are selected, then the data is organized as shown in Figure 12.

NOTE: In the examples that follow, the data will be shown organized by serial number. Your Data Window may appear slightly different.

Bump Test Data

The instrument saves information for up to 100 of the most recent bump tests and calibrations combined. This bump test history is retrieved using either the **Complete Download** download command or the **Download Logger Data** download command.

All downloaded bump test data for all downloaded instruments is available in the Bump Test folders in the Data Window. The Bump Test folder is located in an untitled folder for each instrument. The bump test information available here is more comprehensive than that in the **Last Calibration** window.

1. Click **Data** at the right side of the program window. The Data Window will appear.
2. Expand the folders for the serial number by double-clicking or using the (+) button next to each folder.
3. Open the untitled folder by double-clicking it or using the (+) button.
4. Click the **Bump Test** folder. The Bump Test file(s) for that instrument will appear in the top right frame. If multiple Station IDs or User IDs are used for an instrument, then more than one Bump Test file will appear.

   The date/time displayed on each line corresponds to the date and time of the instrument download and not a date or time of a bump test.

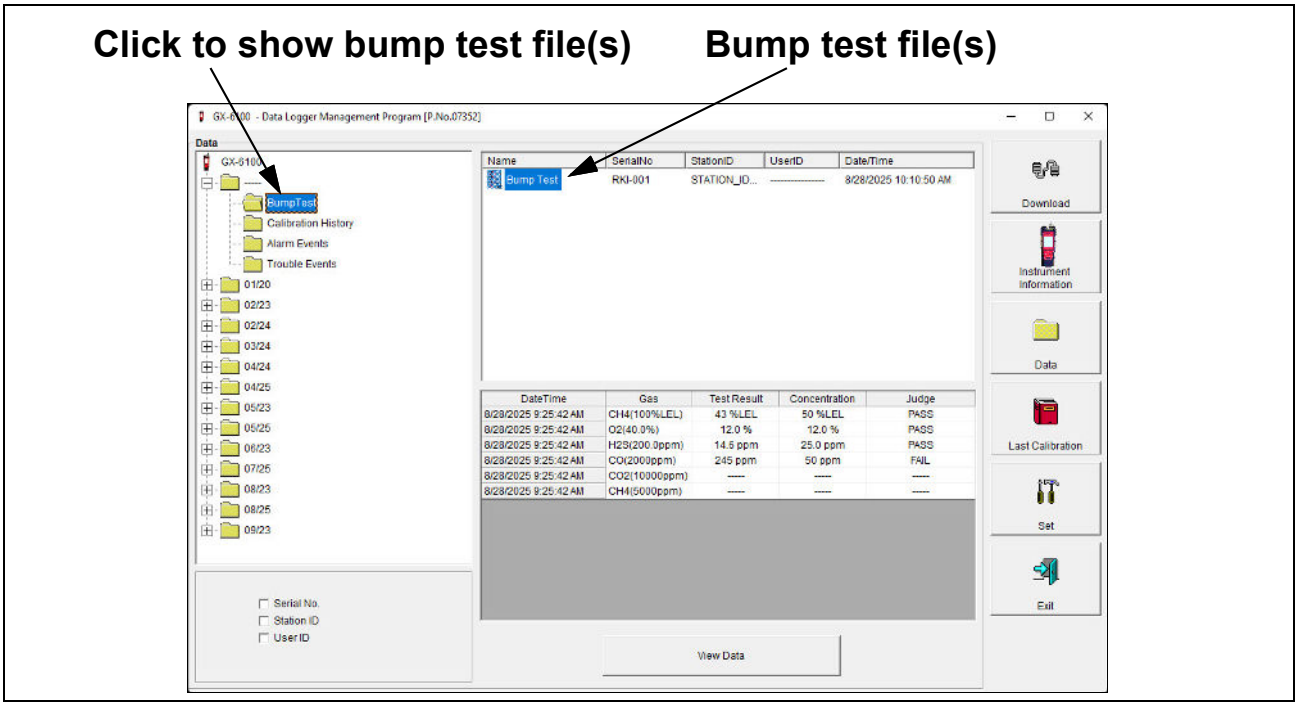


Figure 13: Data Window - Selecting Bump Test Files

5. Click a file to select it. The first two bump tests saved will be shown in the bottom right frame along with the total number of bump tests saved if it is more than two.

   Each saved bump test shows the date/time of the bump test, the gas, the test result, the concentration of gas used, and the result of the bump test.

6. To view the Bump Test file in table format, double click the Bump Test file or click **View Data**.

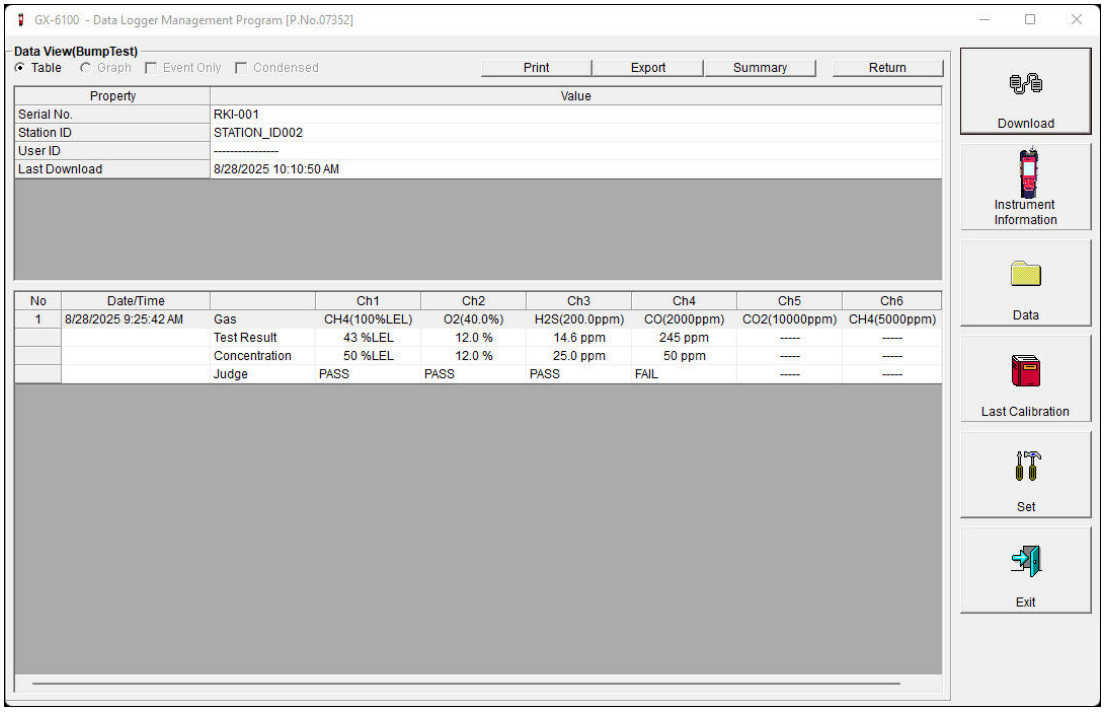


Figure 14: Data View, Bump Test

Printing Data

1. Click **Print**.
2. Select a printer in the window that appears and click **OK**.

Exporting Data

1. Click **Export**.
2. Specify the filename and file location. The default file type is ".csv" (comma-separated values).
3. Click **Save**.

Calibration History

The instrument saves information for up to 100 of the most recent bump tests and calibrations combined. This calibration history is retrieved using either the **Complete Download** download command or the **Download Logger Data** download command.

All downloaded calibration information for all downloaded instruments is available in the Calibration History folders in the Data Window. This information is saved in a Calibration History Folder that is located in an untitled folder for each instrument. The calibration history files are differentiated by instrument. The calibration information available here is more comprehensive than that in the Last Calibration Window. The calibration information for all calibrations downloaded, whether successful or not, is saved instead of just the most recent successful calibration for each instrument.

1. Click **Data** along the right side of the program window. The Data Window will appear.
2. Expand the folders for the desired serial number by double-clicking or using the (+) button.
3. Open the untitled folder by double-clicking it or using the (+) button.
4. Click the **Calibration History** folder. The Calibration Histories file(s) for that instrument will appear in the top right frame. If multiple Station IDs or User IDs are used for an instrument, then more than one Calibration Histories file will appear.

   The date/time displayed on each line corresponds to the date and time of the instrument download and not a date or time of a calibration.

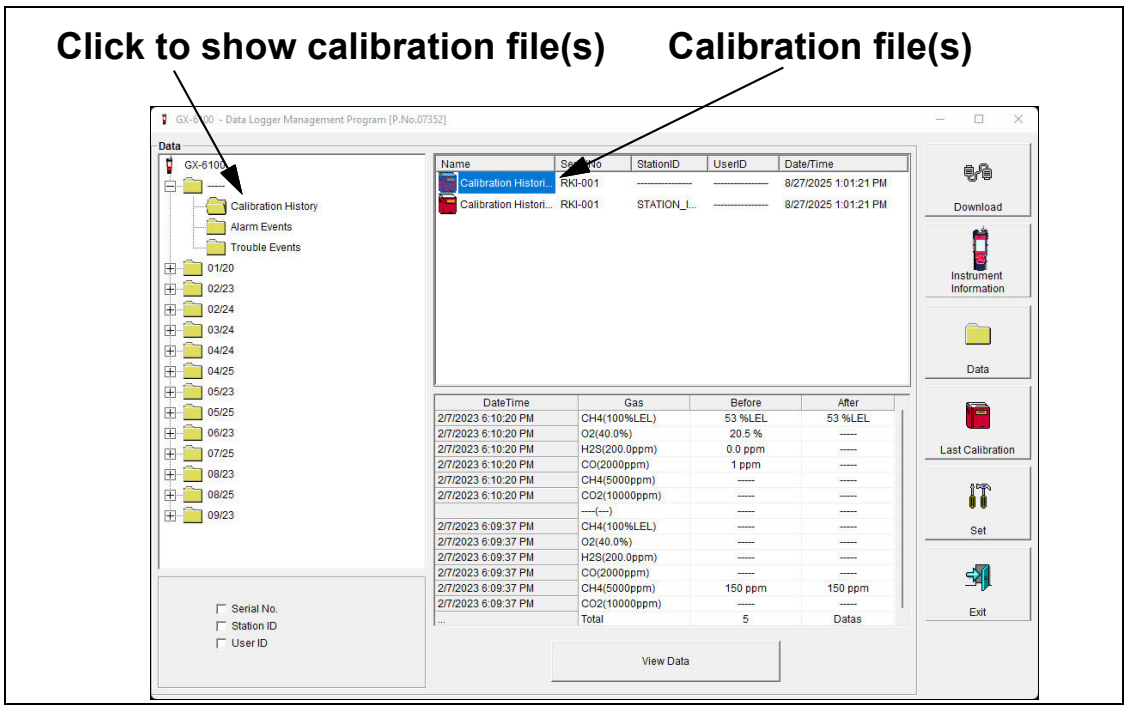
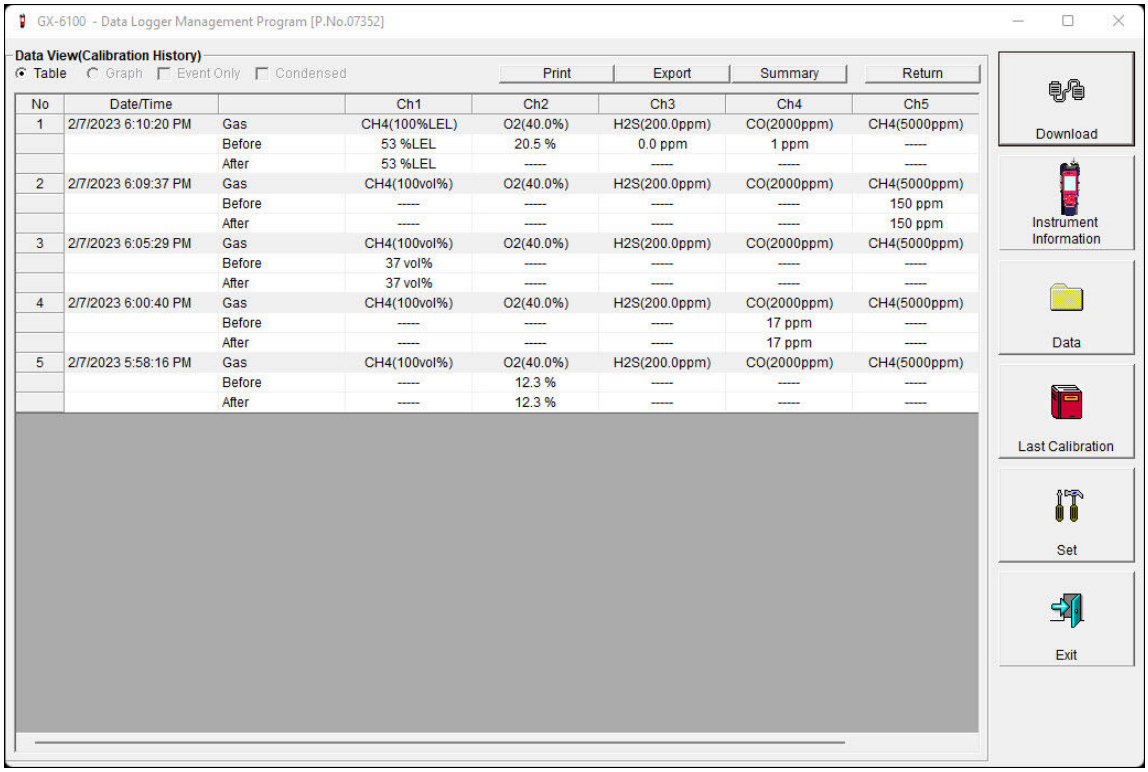


Figure 15: Data Window - Selecting Calibration History Files

5. Click the file to select it. The first two calibrations saved will be shown in the bottom right frame along with the total number of calibrations saved if it is more than two.

   Each saved calibration shows the date/time of calibration, the gas, the concentration before calibration, and the concentration after calibration. If a calibration failed, dashes will appear in the After column rather than gas concentrations. If a channel was not included in calibration, dashes will appear in the Before and After columns.

6. To view the Calibration Histories file in table format, double click the Calibration Histories file or click **View Data**. Calibration Histories files can only be viewed in table format.



No	Date/Time		Ch1	Ch2	Ch3	Ch4	Ch5
1	2/7/2023 6:10:20 PM	Gas	CH4(100%LEL)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	CH4(5000ppm)
		Before	53 %LEL	20.5 %	0.0 ppm	1 ppm	-----
		After	53 %LEL	-----	-----	-----	-----
2	2/7/2023 6:09:37 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	CH4(5000ppm)
		Before	-----	-----	-----	-----	150 ppm
		After	-----	-----	-----	-----	150 ppm
3	2/7/2023 6:05:29 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	CH4(5000ppm)
		Before	37 vol%	-----	-----	-----	-----
		After	37 vol%	-----	-----	-----	-----
4	2/7/2023 6:00:40 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	CH4(5000ppm)
		Before	-----	-----	-----	17 ppm	-----
		After	-----	-----	-----	17 ppm	-----
5	2/7/2023 5:58:16 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	CH4(5000ppm)
		Before	-----	12.3 %	-----	-----	-----
		After	-----	12.3 %	-----	-----	-----

Figure 16: Data View, Calibration History

Printing Data

1. Click **Print**.
2. Select a printer in the window that appears and click **OK**.

Exporting Data

1. Click **Export**.
2. Specify the filename and file location. The default file type is ".csv" (comma-separated values).
3. Click **Save**.

Event Data

The instrument saves the 100 most recent alarm events and the 100 most recent trouble events. When an instrument is downloaded, the Data Logger program retrieves these events from that instrument and saves them in alarm event files and trouble event files for each instrument.

Alarm event files save the time, instrument channel, and alarm type of every gas alarm event that occurs on a particular instrument. Warning, Alarm, Alarm 1H, STEL, TWA, and overscale events are saved.

Trouble event files note the time, whether the event is an instrument system failure or sensor failure and the specific type of failure. Dead battery alarms and sensor failures are among the trouble events that are saved.

1. Click **Data** along the right side of the program window. The Data Window will appear.
2. Expand the folders for the desired serial number by double-clicking or using the (+) button.
3. Open the untitled folder by double-clicking it or using the (+) button.
4. Click the **Alarm Events** or **Trouble Events** folder. The Alarm Events or Trouble Events file(s) for that instrument will appear in the top right frame. If multiple Station IDs or User IDs are used for an instrument, then more than one Alarm Events or Trouble Events file will appear.

   The date/time displayed on each line corresponds to the date and time of the instrument download and not a date or time of an alarm or trouble event.

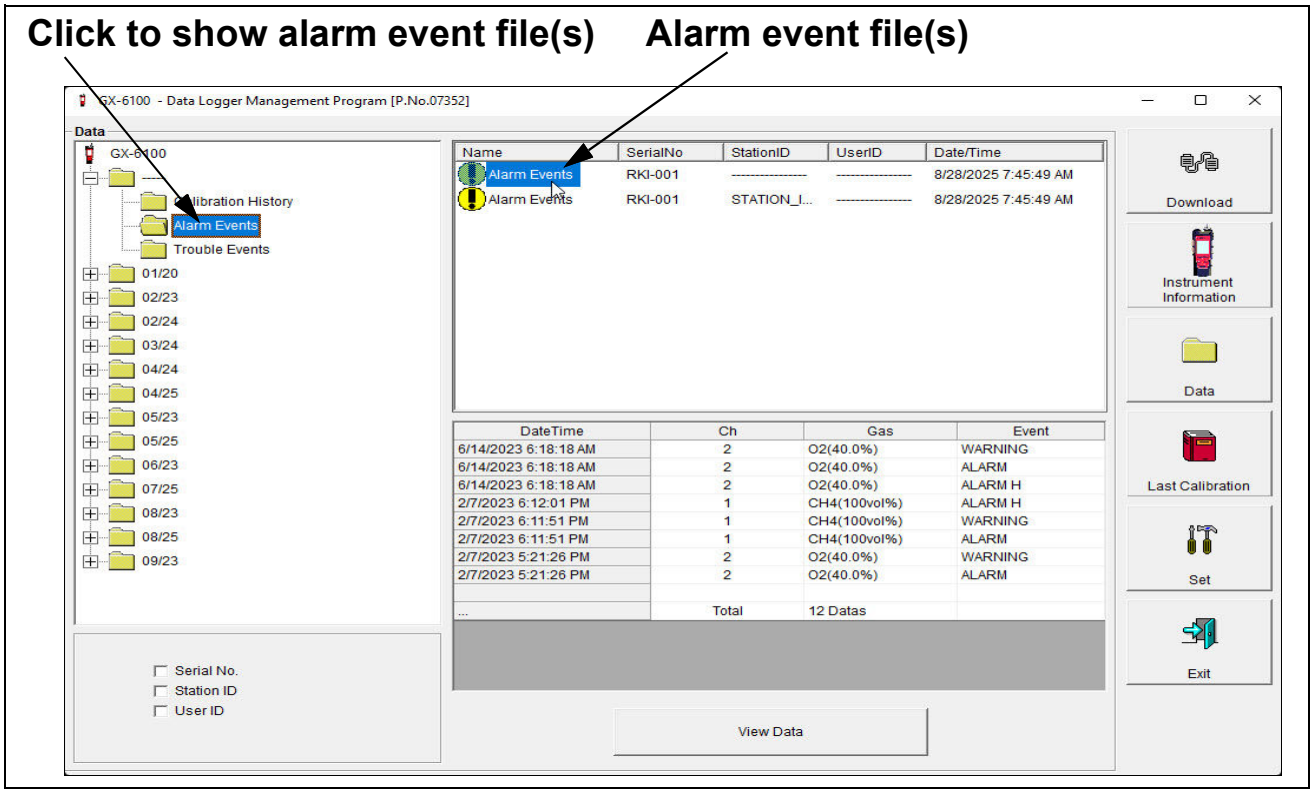


Figure 17: Data Window - Selecting Event Data Files

5. Click the desired event file to select it. An event list will appear in the bottom right frame with the date, time, channel, and event type for the first eight events saved in the selected file. If more than eight events are saved, the first eight events are shown and the total number of events in the file is shown at the bottom of the list.

6. Click **View Data** at the bottom of the Data Window or double-click the event file name to open the file and view it in table format. Event files can only be viewed in table format.

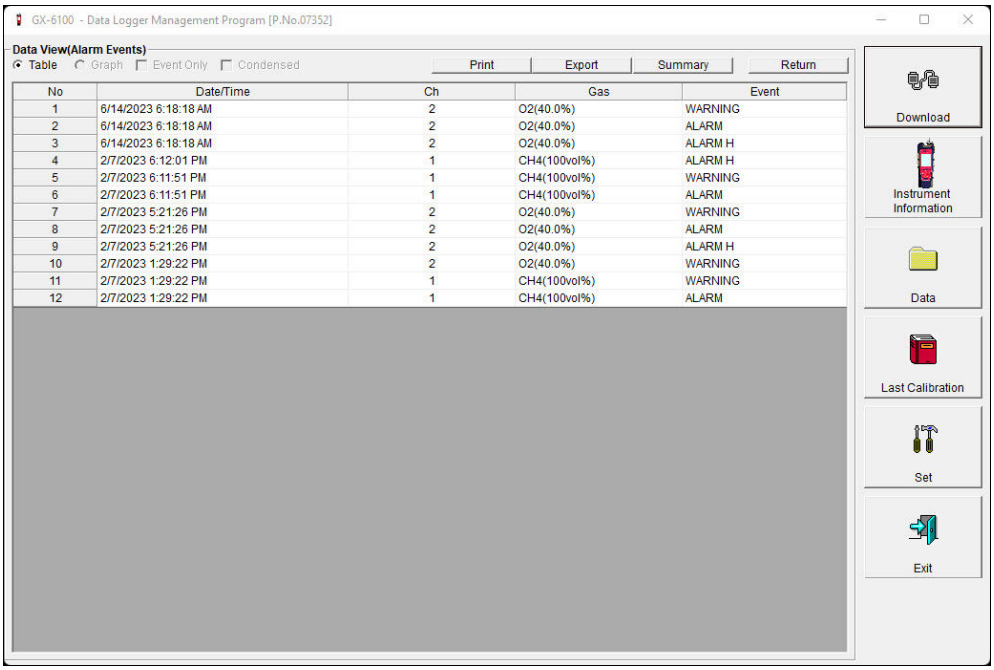


Figure 18: Data View - Alarm Events Details

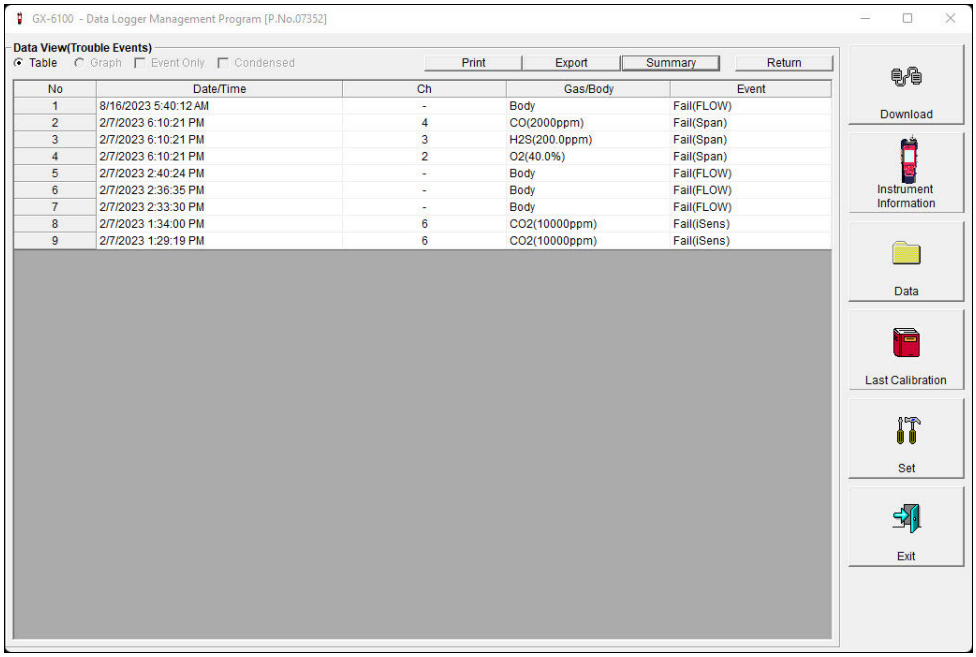


Figure 19: Data View - Trouble Events Details

7. Click **Summary** to show instrument information above the event table.

Printing Data

1. Click **Print**.
2. Select a printer in the window that appears and click **OK**.

Exporting Data

1. Click **Export**.
2. Specify the filename and file location. The default file type is ".csv" (comma-separated values).
3. Click **Save**.

Snap Log Data (Normal Mode and Leak Check Mode)

Snap log data can be taken in Normal Operation or in Leak Check Mode.

NOTE: If snap logs are taken while the GX-6100 is in Leak Check Mode, only the combustible gas channel will be logged. See the *GX-6100 Operator's Manual* for more information on Leak Check Mode.

1. Click **Data** along the right side of the program window. The Data Window will appear.
2. Expand the folder for the desired serial number by double-clicking or using the (+) button.
3. Open the dated folder (month/year) whose contents you want to see by double-clicking it or using the (+) button.

4. For Normal Mode files, click the **Normal Op Snap Log** folder.

   For Leak Check Mode files, click the **Leak Check Snap Log** folder.

   The snap log file(s) for the instrument will appear in the top right frame. The start and end date/times on each line indicate when each file recording started and ended.

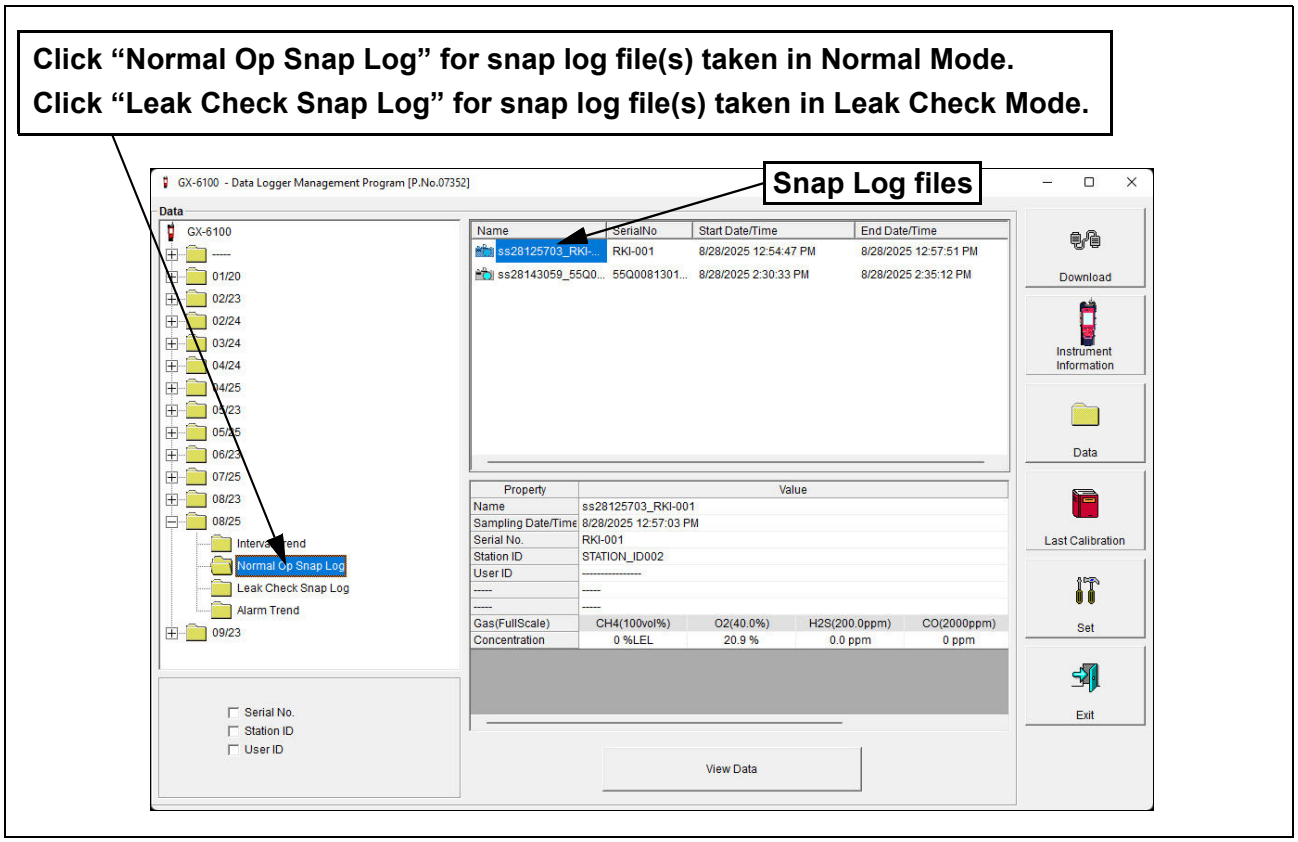
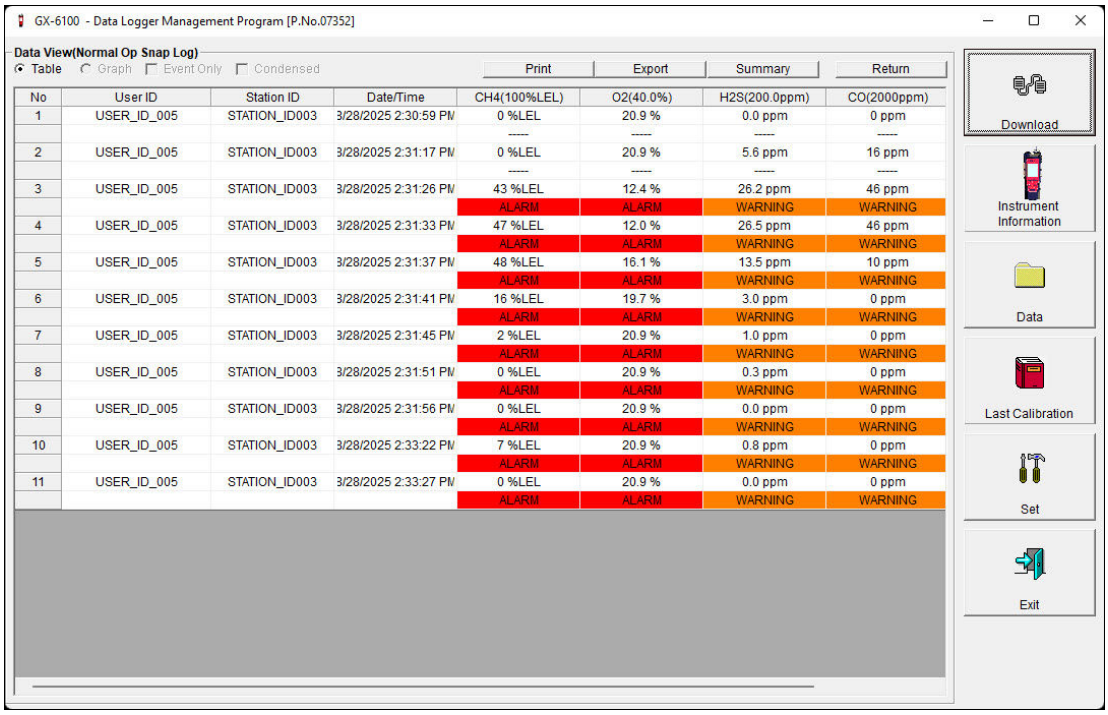


Figure 20: Data Window - Selecting Normal Mode Snap Log Files

5. Click one of the snap log files. A summary will appear below the snap log files listing the instrument, date/time, serial number, station/user ID, and the channel readings logged at the time.

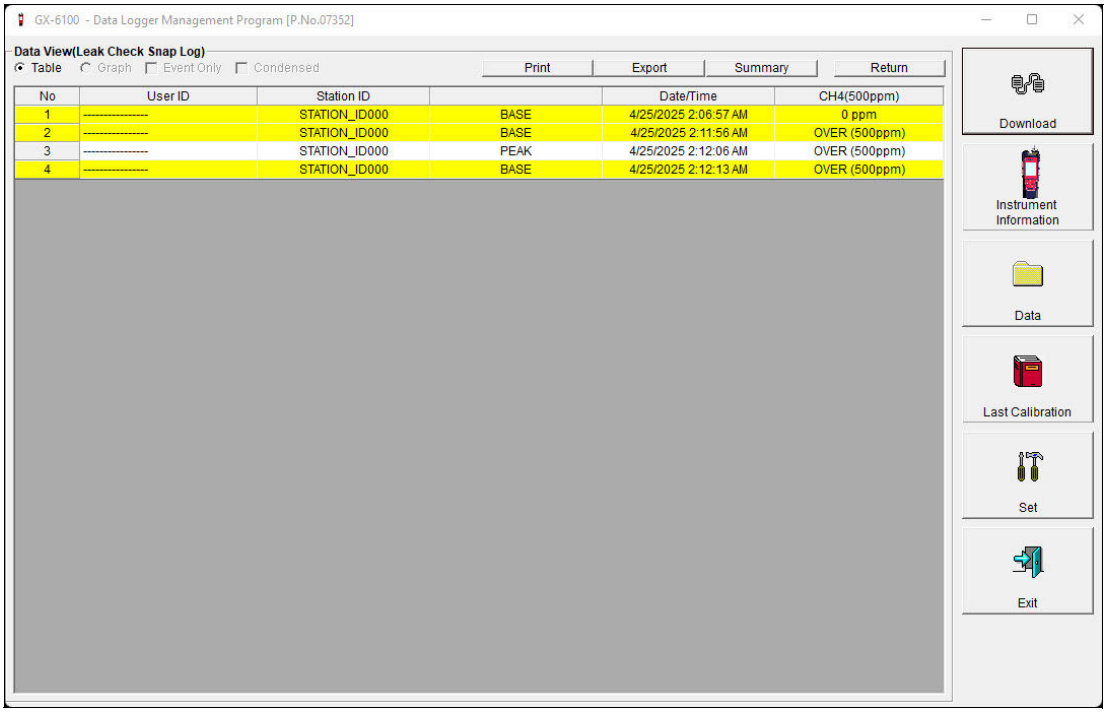
6. To view the snap log file in table format, double click the selected file or click **View Data** at the bottom of the Data Window shown in Figure 20. Snap log files can only be viewed in table format.

   Figure 21 and Figure 22 show sample snap log files from Normal Mode and Leak Check Mode respectively.



No	User ID	Station ID	Date/Time	CH4(100%LEL)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)
1	USER_ID_005	STATION_ID003	3/28/2025 2:30:59 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm
				-----	-----	-----	-----
2	USER_ID_005	STATION_ID003	3/28/2025 2:31:17 PM	0 %LEL	20.9 %	5.6 ppm	16 ppm
				-----	-----	-----	-----
3	USER_ID_005	STATION_ID003	3/28/2025 2:31:26 PM	43 %LEL	12.4 %	26.2 ppm	46 ppm
				ALARM	ALARM	WARNING	WARNING
4	USER_ID_005	STATION_ID003	3/28/2025 2:31:33 PM	47 %LEL	12.0 %	26.5 ppm	46 ppm
				ALARM	ALARM	WARNING	WARNING
5	USER_ID_005	STATION_ID003	3/28/2025 2:31:37 PM	48 %LEL	16.1 %	13.5 ppm	10 ppm
				ALARM	ALARM	WARNING	WARNING
6	USER_ID_005	STATION_ID003	3/28/2025 2:31:41 PM	16 %LEL	19.7 %	3.0 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING
7	USER_ID_005	STATION_ID003	3/28/2025 2:31:45 PM	2 %LEL	20.9 %	1.0 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING
8	USER_ID_005	STATION_ID003	3/28/2025 2:31:51 PM	0 %LEL	20.9 %	0.3 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING
9	USER_ID_005	STATION_ID003	3/28/2025 2:31:56 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING
10	USER_ID_005	STATION_ID003	3/28/2025 2:33:22 PM	7 %LEL	20.9 %	0.8 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING
11	USER_ID_005	STATION_ID003	3/28/2025 2:33:27 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm
				ALARM	ALARM	WARNING	WARNING

Figure 21: Data View - Snap Log Files (Normal Mode)



No	User ID	Station ID		Date/Time	CH4(500ppm)
1	----------	STATION_ID000	BASE	4/25/2025 2:06:57 AM	0 ppm
2	----------	STATION_ID000	BASE	4/25/2025 2:11:56 AM	OVER (500ppm)
3	----------	STATION_ID000	PEAK	4/25/2025 2:12:06 AM	OVER (500ppm)
4	----------	STATION_ID000	BASE	4/25/2025 2:12:13 AM	OVER (500ppm)

Figure 22: Data View - Snap Log Files (Leak Check Mode)

Bar Hole Testing

Bar Hole readings taken in Bar Hole Mode are saved in the instrument and can be viewed in the Data Logger program.

1. Click **Data** along the right side of the program window. The Data Window will appear.
2. Expand the folder for the desired serial number by double-clicking or using the (+) button.
3. Open the dated folder (month/year) whose contents you want to see by double-clicking it or using the (+) button.
4. Click on the **BarHole** folder.

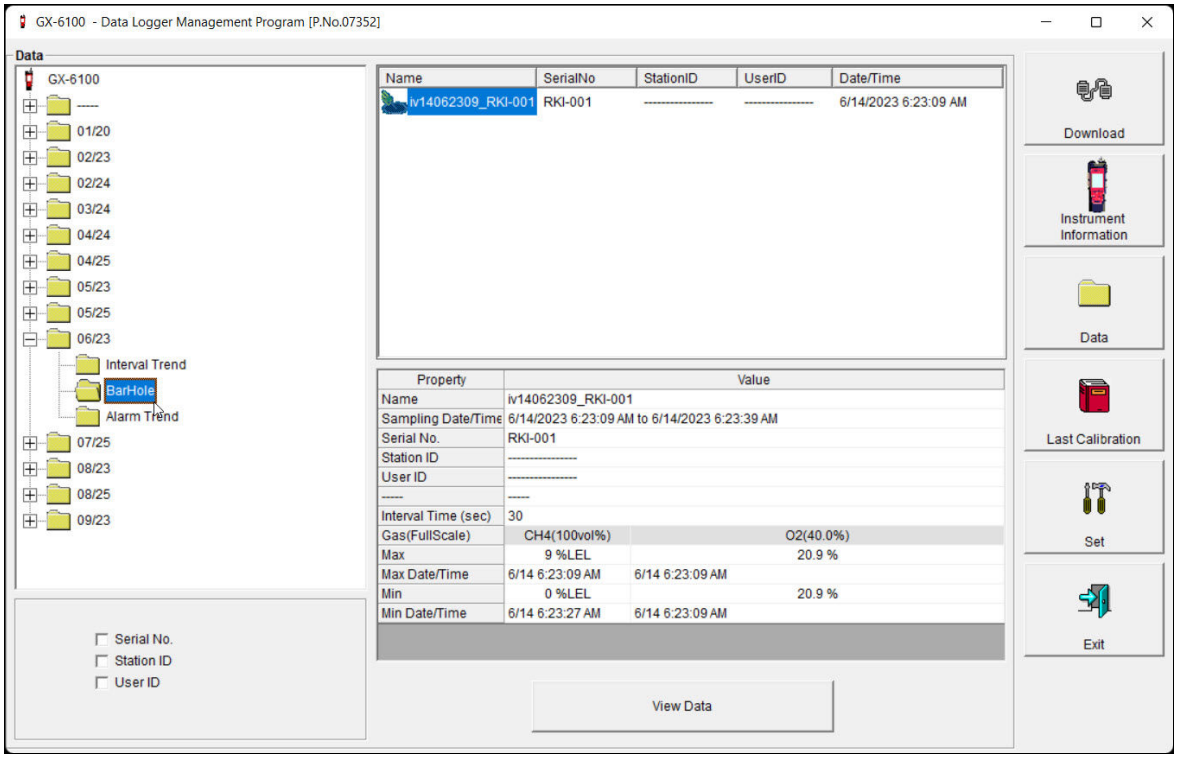


Figure 23: Data View - Bar Hole Mode Files

5. To view the bar hole file in table format, double click the selected file or click **View Data** at the bottom of the Data Window shown in Figure 20. These files can only be viewed in table format.

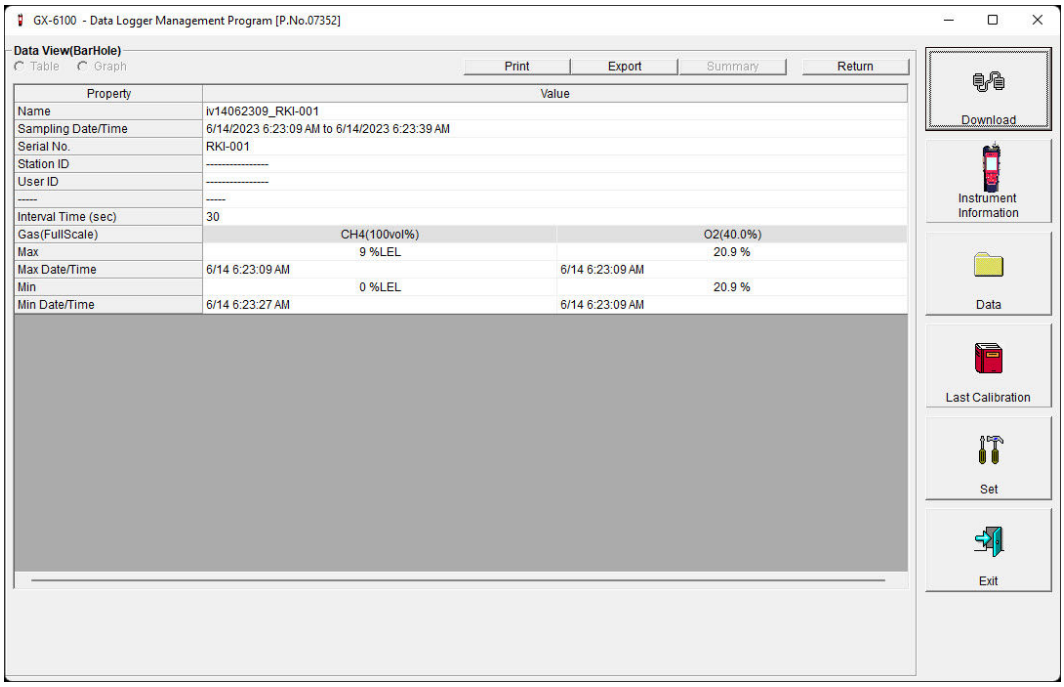


Figure 24: Data View - Bar Hole File Details

Interval Trend Data

Average gas concentrations over the user-defined interval trend time are logged in the interval trend data files. The interval trend time can be changed in the **Set** window. See “Changing Instrument Parameters” on page 45 to change the interval trend time. Events such as gas alarms or sensor failures are saved in the interval trend data file when they occur. The table below outlines how many hours of datalogging are available per interval trend time.

Interval Time	Data Logging Time
10 seconds	10 hours
20 seconds	20 hours
30 seconds	30 hours
1 minute	60 hours
3 minutes	180 hours
5 minutes (factory setting)	300 hours
10 minutes	600 hours

An interval trend data file is created and saved in the instrument when the instrument is turned *off*. The serial number, user ID, and station ID that are entered in the instrument when it is turned *on* are saved for the corresponding interval trend file. If the instrument's serial number, user ID, or station ID are changed in the Set window, any interval trend files that result from subsequent operating sessions will have the new serial number, user ID, or station ID saved in them.

When the station ID of the instrument is changed during operation, is it shown as an event in the interval trend file.

The data may be viewed either in table format or graph format if at least 5 scheduled data points have been logged at the programmed interval trend time. This does not include events. If an interval data file has fewer than five scheduled data points, the graph controls are not functional and the data cannot be graphed.

1. Click **Data** along the right side of the program window. The Data Window will appear.

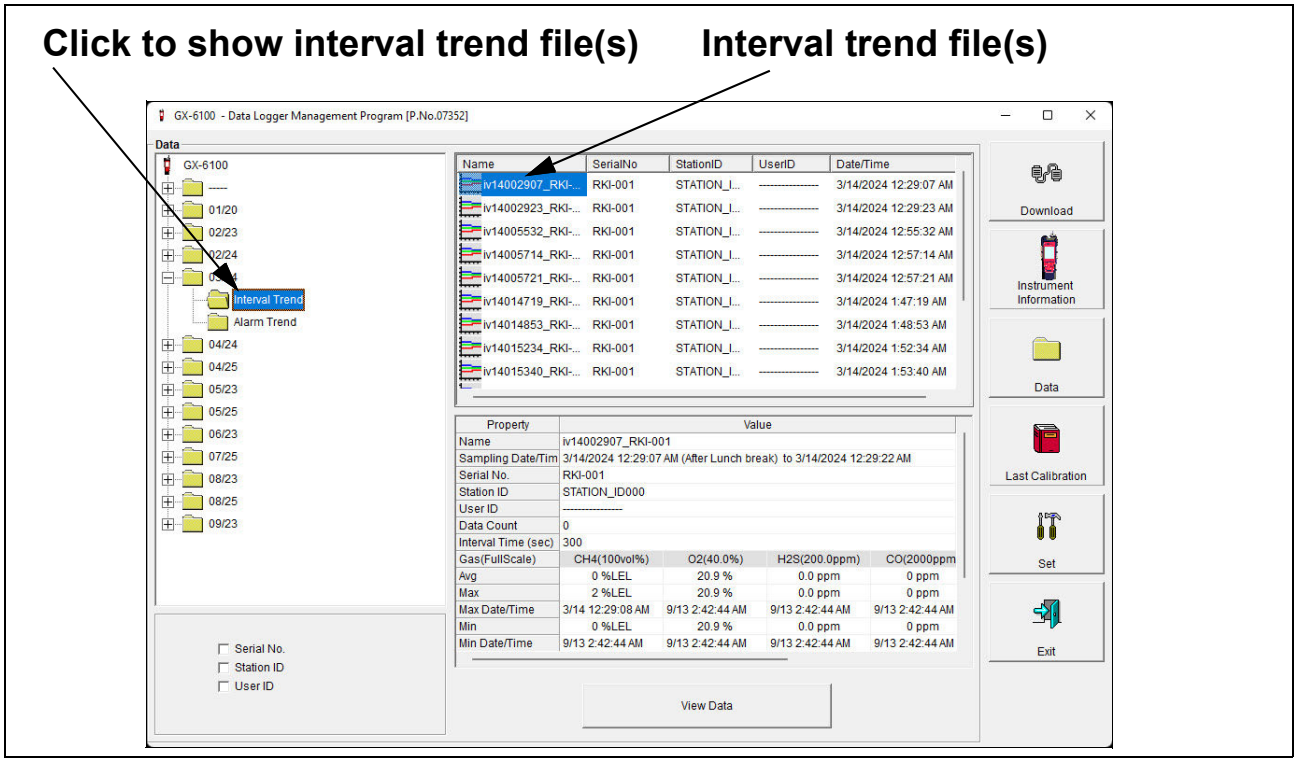


Figure 25: Data Window - Selecting Interval Trend Files

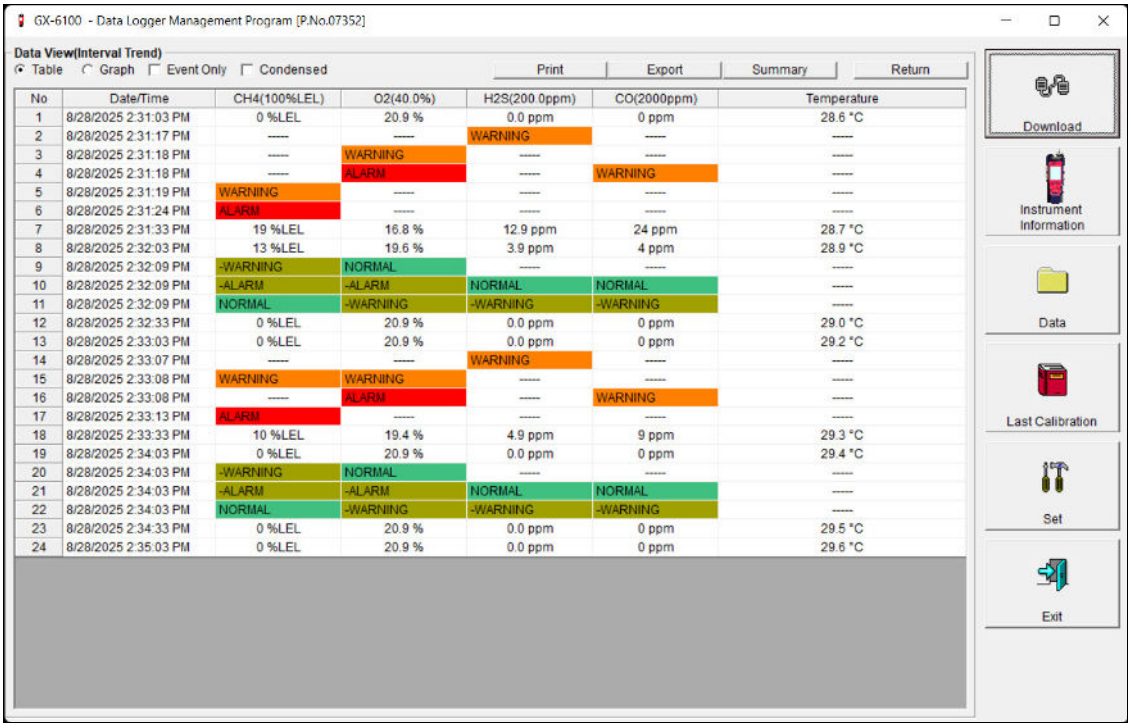
2. Expand the folder for the serial number by double-clicking or using the (+) button.
3. Open the dated folder (month/year) whose contents you want to see by double-clicking it or using the (+) button.
4. Click the **Interval Trend** folder. The Interval Trend file(s) for that instrument will appear in the top right frame.

   The date/time indicated on each line is the date/time that data recording started.
5. Click one of the interval trend data file names. A summary will appear in the bottom right frame with instrument and alarm setting information. If you want to view, graph, print, or export the interval trend data, double-click the filename or click the **View Data** button at the bottom of the window.

6. Interval trend data can be viewed in either table or graph format by selecting the **Table** or **Graph** selection buttons.

Table Format

1. To view the data in table format, click the **Table** selection button.



No	Date/Time	CH4(100%LEL)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	Temperature
1	8/28/2025 2:31:03 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.6 °C
2	8/28/2025 2:31:17 PM	-----	-----	WARNING	-----	-----
3	8/28/2025 2:31:18 PM	-----	WARNING	-----	-----	-----
4	8/28/2025 2:31:18 PM	-----	ALARM	-----	WARNING	-----
5	8/28/2025 2:31:19 PM	WARNING	-----	-----	-----	-----
6	8/28/2025 2:31:24 PM	ALARM	-----	-----	-----	-----
7	8/28/2025 2:31:33 PM	19 %LEL	16.8 %	12.9 ppm	24 ppm	28.7 °C
8	8/28/2025 2:32:03 PM	13 %LEL	19.6 %	3.9 ppm	4 ppm	28.9 °C
9	8/28/2025 2:32:09 PM	-WARNING	NORMAL	-----	-----	-----
10	8/28/2025 2:32:09 PM	-ALARM	-ALARM	NORMAL	NORMAL	-----
11	8/28/2025 2:32:09 PM	NORMAL	-WARNING	-WARNING	-WARNING	-----
12	8/28/2025 2:32:33 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.0 °C
13	8/28/2025 2:33:03 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.2 °C
14	8/28/2025 2:33:07 PM	-----	-----	WARNING	-----	-----
15	8/28/2025 2:33:08 PM	WARNING	WARNING	-----	-----	-----
16	8/28/2025 2:33:08 PM	-----	ALARM	-----	WARNING	-----
17	8/28/2025 2:33:13 PM	ALARM	-----	-----	-----	-----
18	8/28/2025 2:33:33 PM	10 %LEL	19.4 %	4.9 ppm	9 ppm	29.3 °C
19	8/28/2025 2:34:03 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.4 °C
20	8/28/2025 2:34:03 PM	-WARNING	NORMAL	-----	-----	-----
21	8/28/2025 2:34:03 PM	-ALARM	-ALARM	NORMAL	NORMAL	-----
22	8/28/2025 2:34:03 PM	NORMAL	-WARNING	-WARNING	-WARNING	-----
23	8/28/2025 2:34:33 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.5 °C
24	8/28/2025 2:35:03 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.6 °C

Figure 26: Interval Trend Data in Table Format

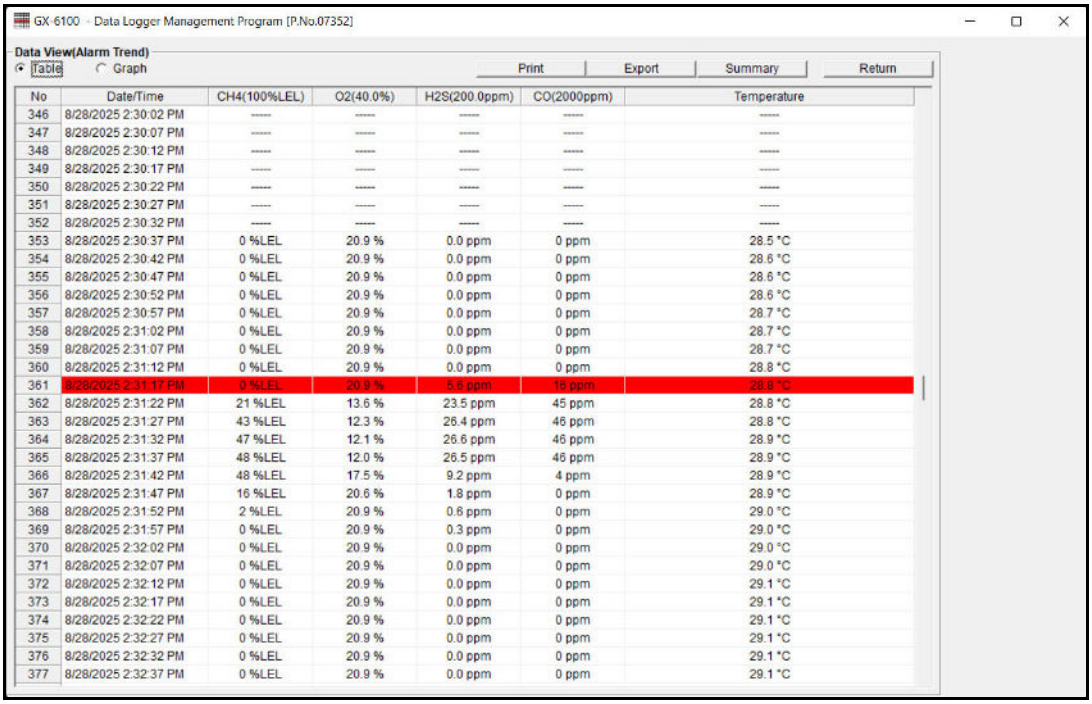
2. Interval trend data is shown as the average gas readings over the user defined interval trend time. So if the data logging session started at 4:13:38 PM and the interval time is set to 1 minute, then the readings logged at 4:14:38 PM are the average reading for each channel over that one minute period.

3. Events are displayed on the screen under the channel in which they occur and with the time of the event. Events are displayed whether they occurred at scheduled log times or in between them. Events include:
   - Gas alarms (Warning, Alarm, Alarm H, STEL, TWA)
   - Trouble conditions (sensor failure, low battery, etc.)
   - Man down
   - Panic
   - “Normal” indication after alarm condition is reset
   - Station ID changed during operation

4. Click **Summary** to show instrument information above the interval trend data table.

5. Click the **Events Only** selection box to view only events.

6. Click the **Condensed** selection box to view the interval trend data in condensed form. When the data is condensed, the software only displays the following information:
   - The first and last scheduled data points in the session
   - If there are more than two consecutive data points with the same readings for all channels, only the first and last of these consecutive data points are shown.
   - All events, such as gas alarms or sensor failures
   - All data points before and after each event
7. Click on an alarm event to view the alarm trend data file. To return to the interval trend data file, click the **Return** button or click the "X" in the upper right corner of the new window to close the window.



No	Date/Time	CH4(100%LEL)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	Temperature
346	8/28/2025 2:30:02 PM	-----	-----	-----	-----	-----
347	8/28/2025 2:30:07 PM	-----	-----	-----	-----	-----
348	8/28/2025 2:30:12 PM	-----	-----	-----	-----	-----
349	8/28/2025 2:30:17 PM	-----	-----	-----	-----	-----
350	8/28/2025 2:30:22 PM	-----	-----	-----	-----	-----
351	8/28/2025 2:30:27 PM	-----	-----	-----	-----	-----
352	8/28/2025 2:30:32 PM	-----	-----	-----	-----	-----
353	8/28/2025 2:30:37 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.5 °C
354	8/28/2025 2:30:42 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.6 °C
355	8/28/2025 2:30:47 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.6 °C
356	8/28/2025 2:30:52 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.6 °C
357	8/28/2025 2:30:57 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.7 °C
358	8/28/2025 2:31:02 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.7 °C
359	8/28/2025 2:31:07 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.7 °C
360	8/28/2025 2:31:12 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	28.8 °C
361	8/28/2025 2:31:17 PM	0 %LEL	20.9 %	5.6 ppm	18 ppm	28.8 °C
362	8/28/2025 2:31:22 PM	21 %LEL	13.6 %	23.5 ppm	45 ppm	28.8 °C
363	8/28/2025 2:31:27 PM	43 %LEL	12.3 %	26.4 ppm	46 ppm	28.8 °C
364	8/28/2025 2:31:32 PM	47 %LEL	12.1 %	26.6 ppm	46 ppm	28.9 °C
365	8/28/2025 2:31:37 PM	48 %LEL	12.0 %	26.5 ppm	46 ppm	28.9 °C
366	8/28/2025 2:31:42 PM	48 %LEL	17.5 %	9.2 ppm	4 ppm	28.9 °C
367	8/28/2025 2:31:47 PM	16 %LEL	20.6 %	1.8 ppm	0 ppm	28.9 °C
368	8/28/2025 2:31:52 PM	2 %LEL	20.9 %	0.6 ppm	0 ppm	29.0 °C
369	8/28/2025 2:31:57 PM	0 %LEL	20.9 %	0.3 ppm	0 ppm	29.0 °C
370	8/28/2025 2:32:02 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.0 °C
371	8/28/2025 2:32:07 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.0 °C
372	8/28/2025 2:32:12 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C
373	8/28/2025 2:32:17 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C
374	8/28/2025 2:32:22 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C
375	8/28/2025 2:32:27 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C
376	8/28/2025 2:32:32 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C
377	8/28/2025 2:32:37 PM	0 %LEL	20.9 %	0.0 ppm	0 ppm	29.1 °C

Figure 27: Data Displayed by Alarm Trend Cursor Symbol

Graph Format

1. To view the data in graph format, click the **Graph** selection button. Five or more scheduled data points are required to display an interval trend data file in graph format.

NOTE: The data count shown in Figure 25 includes scheduled data points and events. A data count above 5 does not guarantee enough scheduled data points for a graph.

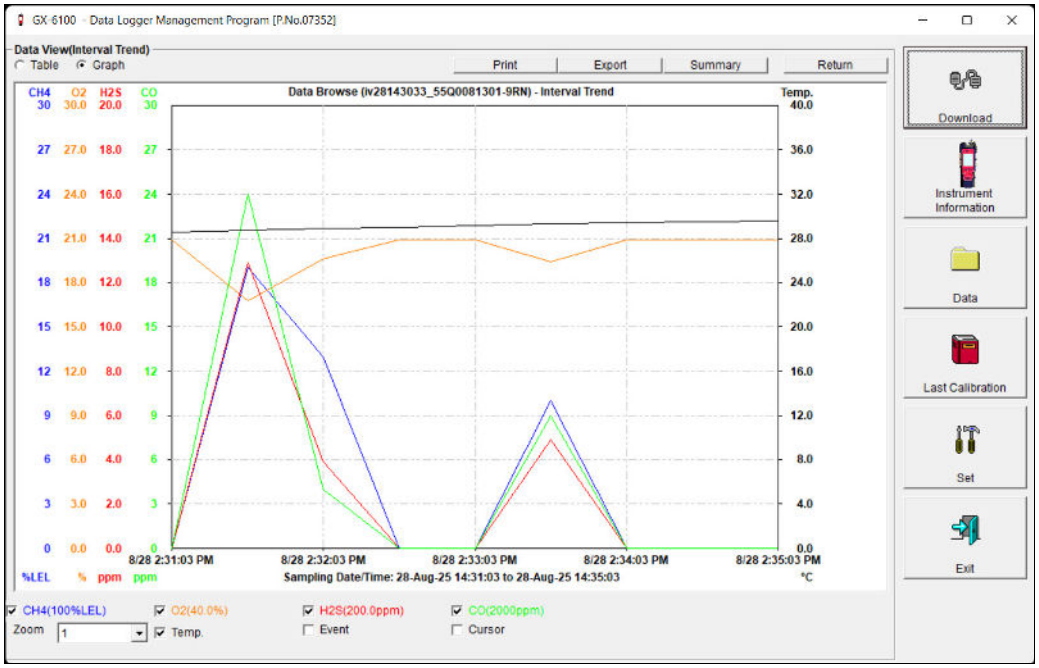


Figure 28: Interval Trend Data in Graph Format

2. Select or deselect gases to show on the graph.
3. Choose the zoom level. Zooming in shows greater detail relative to time.
4. Select **Event**, to see indications for warning, alarm, start of calibration, or end of calibration. Each indication is color coded to the gas color.
5. Select **Cursor** to view the gas reading and log time for the data point at the cursor location. Use the left and right arrow buttons on your keyboard to move the cursor across the graph horizontally. Use the up and down arrows on the keyboard to move the readings up or down on the screen.
6. Click **Summary** to show instrument information above the interval trend data graph.

Printing Data

1. Click **Print**.
2. Select a printer in the window that appears and click **OK**. Data displayed in Graph view will print as a graph and data displayed in Table view will print as a table.

Exporting Data

1. Click **Export**.
2. Specify the file name, file location, and file type. For Graph view, the export file type is ".bmp" (Windows bitmap). For Table view, the default file type is ".csv" (comma-separated values).
3. Click **Save**.

Alarm Trend Data

The instrument saves up to 8 files that describe the most recent alarm events (Warning, Alarm, Alarm H, STEL, TWA, man down, or panic). If an alarm event occurs, then an alarm trend file that is centered around the event is saved separately from the interval trend data files.

It shows the readings up to 30 minutes before and 30 minutes after the event, with the log interval time every five seconds. The gas readings logged at the alarm event time are highlighted in red and the gas readings logged every 5 seconds around the alarm event are the peak (minimum for oxygen) readings for the previous five seconds. If the instrument has not been on for 30 minutes before the alarm event occurs, the data during this time is left blank. If the instrument is turned off less than 30 minutes after an alarm event occurs, the data file will only have logged data until the unit was turned off.

If the gas readings highlighted in red are fresh air readings, then a man down or a panic alarm triggered the alarm trend file.

When an alarm event triggers an alarm trend file to be saved, subsequent alarm events must occur 15 minutes after the previous triggering event in order to trigger the saving of another alarm trend file.

If 8 alarm trend files are already saved in the instrument's memory, the oldest alarm trend file is overwritten when a new alarm trend file is saved.

Alarm trend data can always be displayed in either table or graph format.

1. Click **Data** along the right side of the program window. The Data Window will appear.

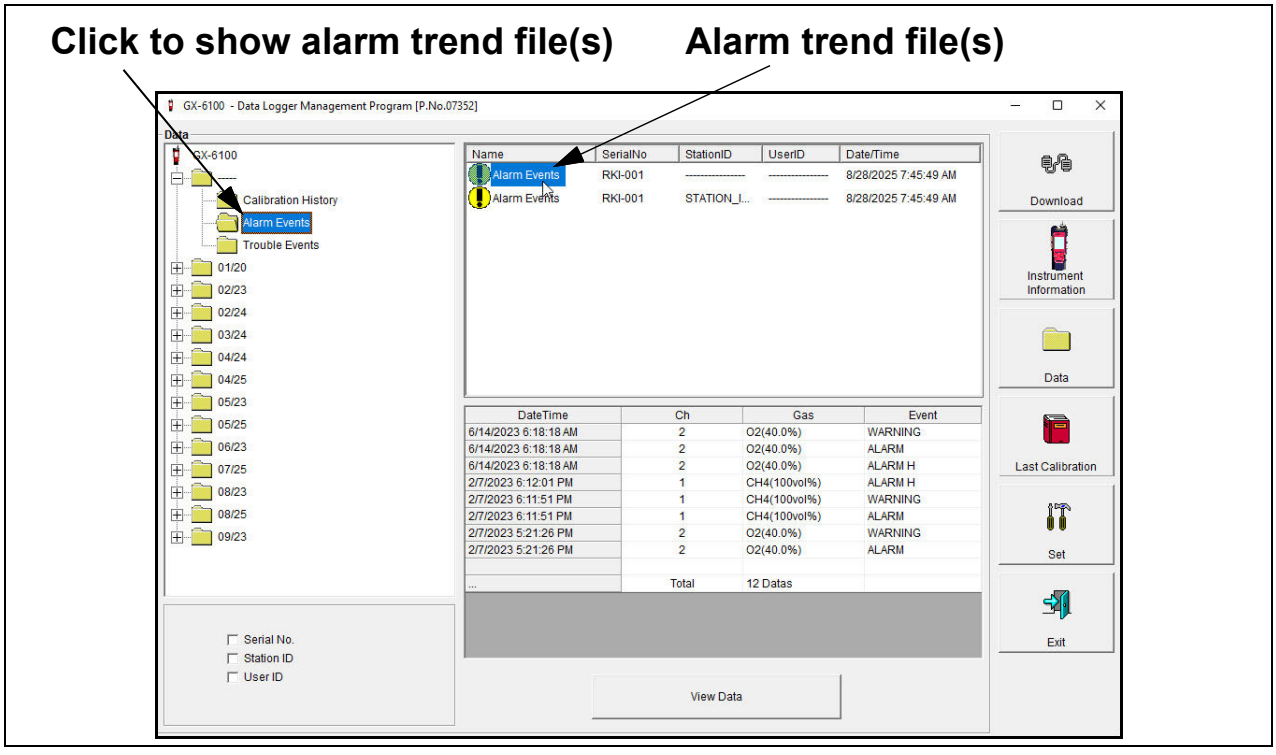


Figure 29: Data Window - Selecting Alarm Trend Files

2. Expand the folders for the serial number by double-clicking or using the (+) button.

3. Open the dated folder (month/year) whose contents you want to see by double-clicking it or using the (+) button.
4. Click the **Alarm Trend** folder. The Alarm Trend file(s) for that instrument will appear in the top right frame.

   The date/time indicated on each line is the date/time that data recording started.
5. Click one of the alarm trend data file names. A summary will appear in the bottom right frame with instrument and alarm setting information. If you want to view, graph, print, or export the alarm trend data, double-click the filename or click the **View Data** button at the bottom of the window.
6. Alarm trend data can be viewed in either table or graph format by selecting **Table** or **Graph**.

Table Format

1. To view the data in table format, click the **Table** selection button.

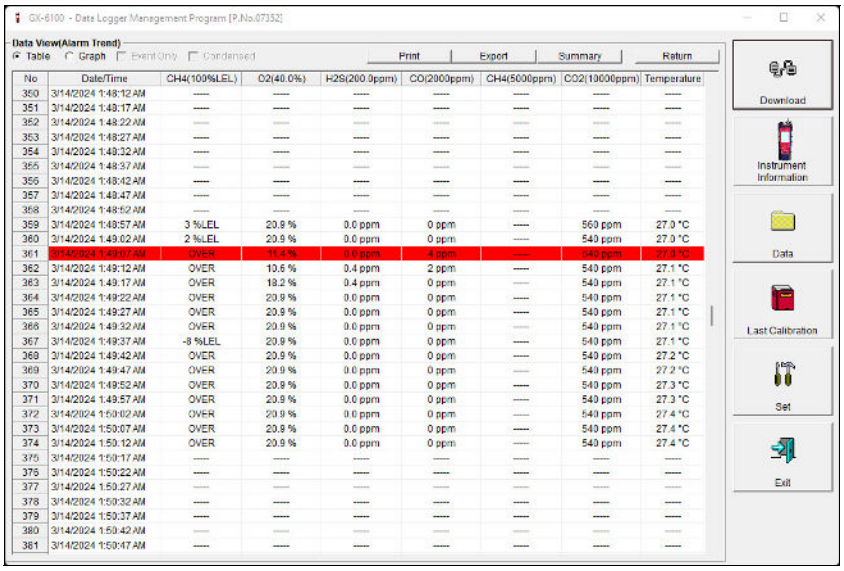


Figure 30: Alarm Trend Data in Table Format

2. The log times are shown along with the peak (minimum for oxygen) gas readings for the previous five seconds.
3. The gas readings at the time of the alarm event that triggered the saving of the alarm trend file are highlighted in red and are the instantaneous readings at that time. If the gas readings highlighted in red are fresh air readings, then a man down or a panic alarm triggered the alarm trend file.
4. Click **Summary** to show instrument information above the alarm trend data table.

Graph Format

1. To view the data in graph format, click the **Graph** button. An alarm trend file can always be graphed regardless of the number of logged points.

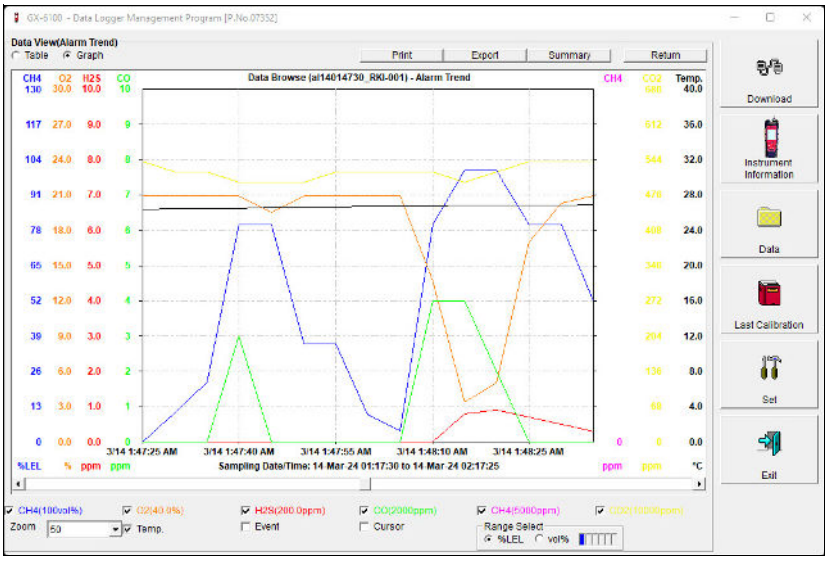


Figure 31: Alarm Trend Data in Graph Format

2. Select or deselect gases to show on the graph.
3. Choose the zoom level. Zooming in shows greater detail relative to time.
4. Select **Event** so see an indication for the alarm event that triggered the saving of the alarm trend file.
5. Select **Cursor** to view the gas reading and log time for the data point at the cursor location. Use the left and right arrow buttons on your keyboard to move the cursor across the graph horizontally. Use the up and down arrows on the keyboard to move the readings up or down on the screen.
6. Click **Summary** to show instrument information above the alarm trend data graph.

Printing Data

1. Click **Print**.
2. Select a printer in the window that appears and click **OK**. Data displayed in Graph view will print as a graph and data displayed in Table view will print as a table.

Exporting Data

1. Click **Export**.
2. Specify the file name, file location, and file type. For Graph view, the export file type is ".bmp" (Windows bitmap). For Table view, the default file type is ".csv" (comma-separated values).
3. Click **Save**.

Deleting Data in the Data Window

1. Click **Data** on the right side of the program window.
2. Right click the folder or file you want to delete. The “Delete” box appears.

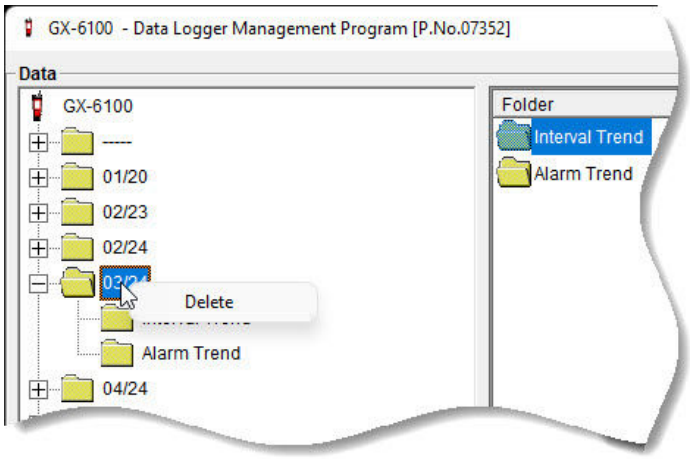


Figure 32: Delete Box

3. Click **Delete**. The Password Window appears.

Figure 33: Password Window

4. Enter the password and click **Continue**. The factory-set, case-sensitive password is “rki”. See “Changing the Delete Password” on page 38 for instructions to change the password.
5. Click **Yes** in the confirmation window to confirm that want to delete the folder or file.

Changing the Delete Password

CAUTION: *Changing the password requires use of the Delete box. Take care to avoid accidentally deleting data.*

1. Right-click a data folder, data file, or event file. The Delete box will appear.

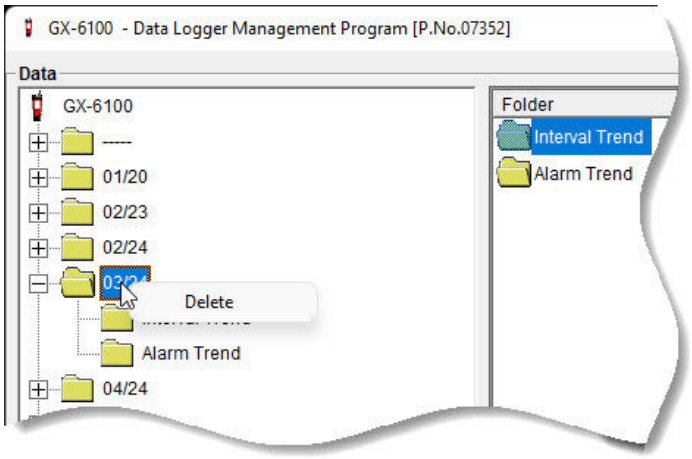


Figure 34: Delete Box

2. Click **Delete**. The Password Window appears.

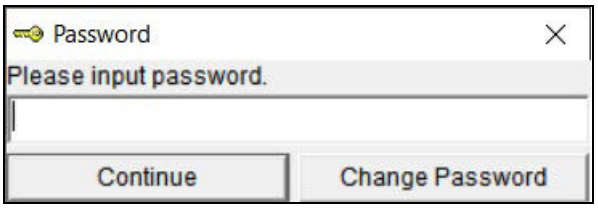


Figure 35: Password Window

3. Click **Change Password**. The Password Window asks you to input the current password.

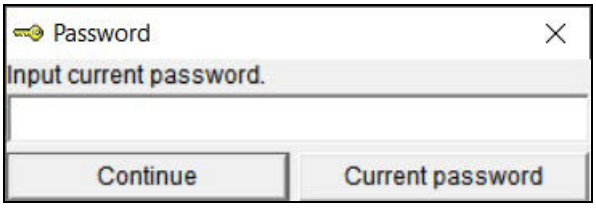


Figure 36: Inputting Current Password

4. Type the current password, then click **Current password**. The Password Window asks you to input the new password.

Figure 37: Inputting New Password

5. Type the new password and click **New Password**. The Password Window asks you to input the new password again to confirm it.

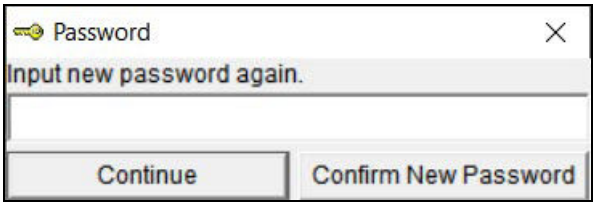


Figure 38: Confirming New Password

6. Type the new password again, then click **Confirm New Password**.
7. Click **OK** when the program confirms that you have changed the password.

Figure 39: Confirming New Password

8. Close the Password Window by clicking the red "X" in the upper right corner of the window.

Chapter 6: Last Calibration Window

The Last Calibration Window stores the information for the most recent successful calibration and for the most recent successful bump test for each downloaded instrument. Calibration data is displayed in the top part of the screen while bump test data is displayed in the bottom part.

You can display the information three ways by using the **Need Calibration/Need Bump Test**, **Calibration Date/Bump Test Date**, or **Calibration Record/Bump Test Record** selection buttons. You can also print the information if you select the **Need Calibration/Need Bump Test** or **Calibration Date/Bump Test Date** view.

NOTE: If the Data Logger program database is on the user's computer (default setting), data will only appear for instruments downloaded to that computer. If the database is on a network, data will appear for all instruments downloaded to that database. See "Accessing a Common Database" on page 6 for more instruction.

Need Calibration/Need Bump Test View

Selecting this view shows the last calibration date, last bump test date, and the last download date for the instruments that are due for calibration or bump testing.

The instruments that are due for calibration or bump testing (in the case of the **Need Calibration/ Need Bump Test** view, that will be all of them), will have their last calibration date or last bump test date highlighted in red. The instruments that have not been downloaded for more than 90 days will have their last download date highlighted in purple.

NOTE: The calibration interval, the number of days after a calibration that a new calibration is due, is saved in the instrument but is not accessible in the Data Logger program. The Data Logger program will not recognize a changed calibration interval until that instrument's information is downloaded again.

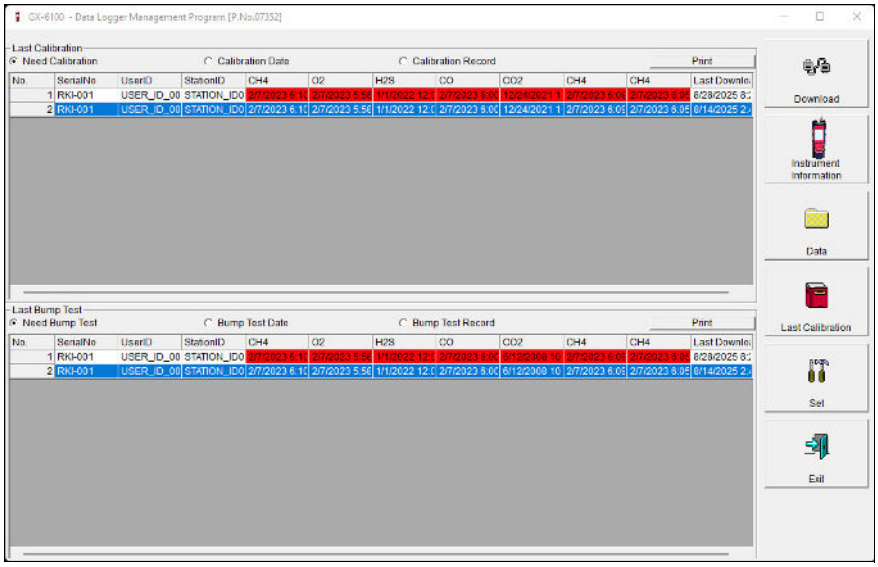


Figure 40: Last Calibration Window: Need Calibration/Need Bump View

1. The **Need Calibration/Need Bump Test** view shows the following fields for both calibration and bump test data:
   - **No.:** Number assigned to downloaded instrument. The most recently downloaded instrument will be No. 1.
   - **SerialNo:** Instrument's serial number
   - **UserID:** The instrument's user ID.
   - **StationID:** The instrument's station ID.
   - **Target Gases:** Date of calibration or bump test for each sensor in MM/DD/YYYY and 12-hour format.
   - **Last Downloaded:** Date of last download in MM/DD/YYYY and 12-hour format.
2. To print a list of the instruments shown in the **Need Calibration/Need Bump Test** view along with their user ID and last calibration date or last bump test date, click the **Print** button. A Printer List dialog box will appear.

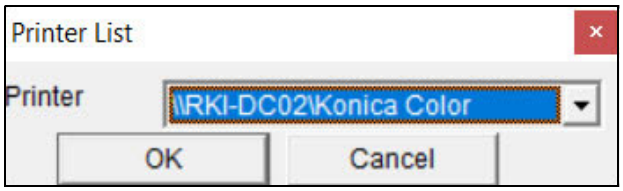


Figure 41: Printer List Dialog Box

3. Select a printer and click the **OK** button to print the instrument list.

Calibration Date/Bump Test Date View

Selecting this view shows the last calibration date, last bump test date, and the last download date for all the instruments that are in the program's database.

Figure 42: Last Calibration Window: Calibration/Bump Date View

1. The **Calibration Date/Bump Test Date** view shows the following fields for both calibration and bump test data:
   - **No.:** Number assigned to downloaded instrument. The most recently downloaded instrument will be No. 1.
   - **SerialNo:** Instrument's serial number
   - **UserID:** The instrument's user ID.
   - **StationID:** The instrument's station ID.
   - **Target Gases**: Date of calibration or bump test for each sensor in MM/DD/YYYY and 12-hour format.
   - **Last Downloaded:** Date of last download in MM/DD/YYYY and 12-hour format.
2. To print a list of the instruments shown in the **Calibration Date/Bump Test Date** view along with their user ID and last calibration date or last bump test date, click the **Print** button. A Printer List dialog box will appear.

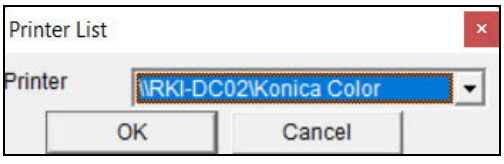


Figure 43: Printer List Dialog Box

3. Select a printer and click the **OK** button to print the instrument list.

Calibration Record/Bump Test Record View

Selecting the Calibration Record/Bump Test Record view shows detailed calibration or bump test information for each instrument's most recent successful calibration or bump test.

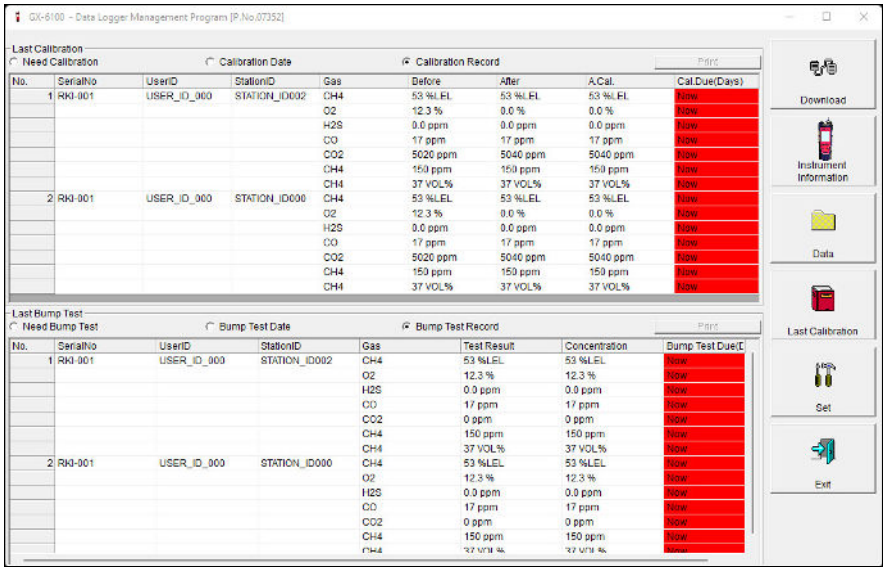


Figure 44: Last Calibration Window: Calibration/Bump Test Record View

1. The calibration field shows:
   - **SerialNo:** Instrument's serial number
   - **UserID:** The instrument's user ID.
   - **StationID:** The instrument's station ID.
   - **Gas:** Instrument's active gases.
   - **Before:** Gas reading prior to calibration.
   - **After:** Gas reading after calibration.
   - **A. Cal.**: Auto calibration value for each gas. The "After" column should match the "A. Cal." column.
   - **Cal. Due (Days)**: Days left before calibration is due. If the instrument is due now, the box will be highlighted in red.
2. The bump test field shows:
   - **SerialNo**: Instrument's serial number
   - **UserID**: The instrument's user ID.
   - **StationID**: The instrument's station ID.
   - **Gas**: Instrument's active gases.
   - **Test Result**: The reading for each channel at the end of the bump test.
   - **Concentration**: Applied gas concentration for each gas.
   - **Bump Test Due**: Days left before bump test is due. If the instrument is due now, the box will be highlighted in red.

3. It is not possible to print any information when the Calibration Record/Bump Test Record view is selected. To view and print all past calibrations for an instrument, see “Calibration History” on page 20.

Deleting Last Calibration Data

1. Click **Last Calibration** on the right side of the program window.
2. Select the **Need Calibration/Need Bump Test** or **Calibration Date/Bump Test Date** view.
3. Click the row for the instrument whose calibration or bump test information you want to delete to select it. It will be highlighted to show that it is selected.
4. Right click the selected instrument.

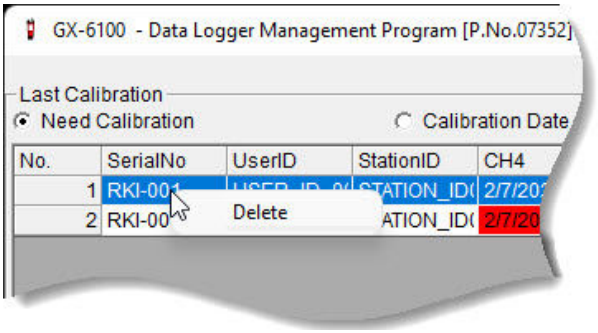


Figure 45: Delete Box

5. Click **Delete**.
6. Enter the password and click **Continue**. The factory-set, case-sensitive password is “rki”. See “Changing the Delete Password” on page 38 for instructions to change the password.

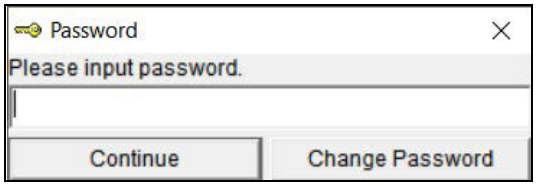


Figure 46: Password Window

7. Click **Yes** in the confirmation window.

NOTE: Deleting instrument data in the **Data** window will not delete calibration data from the **Last Calibration** window. Data in the **Last Calibration** window must be deleted separately.

Chapter 7: Set Window (Instrument Parameters)

In the **Set** window, you can change the following instrument parameters:

- serial number (page 46)
- station ID (page 46)
- user ID (page 46)
- interval trend time (page 47)
- date/time (page 46)
- date format (page 47)
- BLE auto shutoff when idle (page 47)
- auto start after successful bump (page 47)
- auto start after successful cal (page 47)
- alarm points (page 47)
- auto calibration value (page 47)

Changing Instrument Parameters

1. Launch the Data Logger program.
2. If the **Automatic Download** selection box is selected, deselect it.
3. Connect an instrument as described in "Connecting an Instrument" on page 11.
4. Click **Instrument Information** (instrument information only) or **Complete Download** (instrument information and instrument data).

5. Click **Set**.

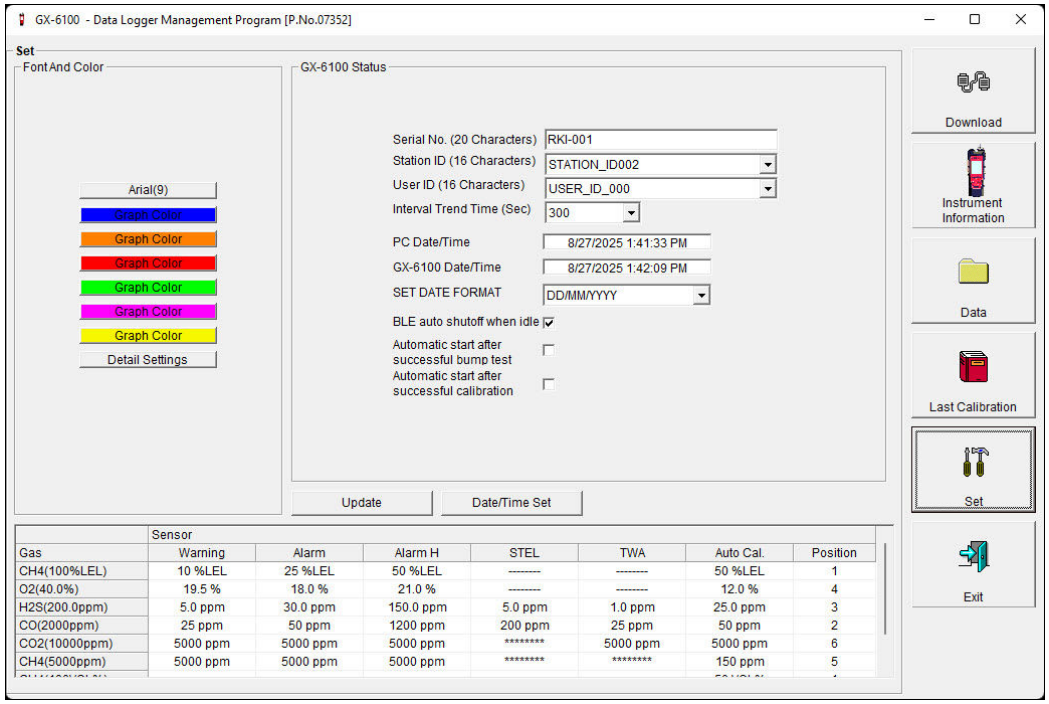


Figure 47: Set Window

6. Click **Update** and then **Yes** in the confirmation window to upload the changes to the instrument.

   To update the instrument's date and time to match the computer's, click **Date/Time Set** and then click the **Yes** in the confirmation window.

Changing the Serial Number

To change the serial number stored in the instrument, click the serial number field and use the backspace key to remove the current entry, then type the new serial number.

Changing the Station ID or User ID

Use the drop down menu to select a new station ID or user ID from the list. The available station and user IDs are ones that are stored in the instrument's memory.

Setting the Interval Trend Time

Use the drop down menu to set the **Interval Trend Time**. The available choices are 10, 20, 30, 60, 180, 300, and 600 seconds. The table below outlines how many hours of datalogging are available per interval trend time.

Interval Time	Data Logging Time
10 seconds	10 hours
20 seconds	20 hours
30 seconds	30 hours
1 minute	60 hours
3 minutes	180 hours
5 minutes (factory setting)	300 hours
10 minutes	600 hours

Selecting the Date Format

Use the drop down menu to select the date format. The choices are **DD/MM/YYYY** (day/month/year), **MM/DD/YYYY** (month, day, year), and **YYYY/MM/DD** (year/month/day).

Setting the Bluetooth Auto Shutoff

Select or deselect **BLE auto shutoff when idle**.

- **Selected** (factory setting): If the GX-6100 does not pair to a phone in the first 5 minutes after startup, the GX-6100's Bluetooth gets shut off to conserve battery life.
- **Deselected**: If the GX-6100 does not pair to a phone, the GX-6100's Bluetooth stays on indefinitely.

Enabling or Disabling Auto Start After a Successful Bump Test/Calibration

Select or deselect **Auto start after successful bump test** and **Auto start after successful cal**.

- **Selected** (factory setting): If only one calibration cylinder is assigned, the GX-6100 automatically starts its warmup sequence after a successful bump test or calibration. If multiple calibration cylinders are assigned, these parameters have no effect on operation.
- **Deselected**: The GX-6100 does not automatically start its warmup sequence after a successful bump test or calibration.

Changing Alarm Points and Auto Calibration Values

To change alarm points and the auto calibration value for each channel, double-click the field you wish to change (e.g. H2S AutoCal.) then type in the new information.

Changing User and Station IDs

The Detail Settings button in the Set window allows the user to create or change a User ID list or Station ID list and upload it to an instrument.

1. Launch the Data Logger program.
2. If the **Automatic Download** selection box is selected, deselect it.
3. Connect an instrument as described in “Connecting an Instrument” on page 11.
4. Click **Instrument Information** (instrument information only) or **Complete Download** (instrument information and instrument data).
5. Click **Set**.

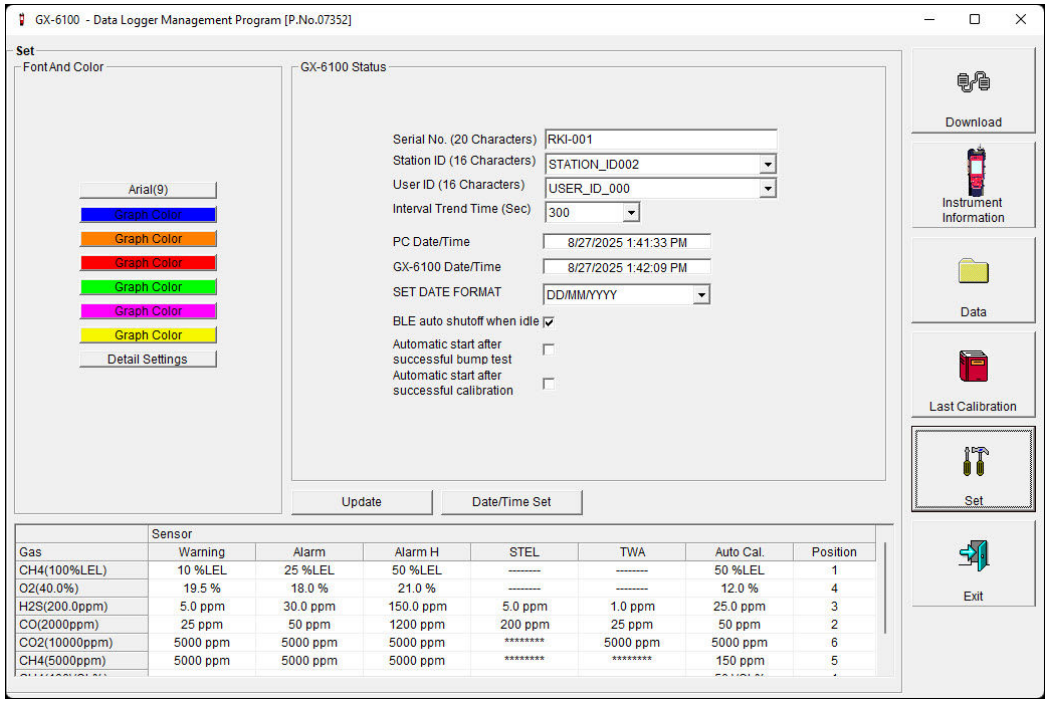


Figure 48: Set Window

Directly Editing Station and User ID Lists

The station and user ID lists can be edited directly or through the use of .csv files. Editing them directly is often more convenient if your station or user ID list is short. For longer ID lists, using .csv files will be more convenient. See “Updating Station and User ID Lists Using .csv Files” on page 50 for instructions to use .csv files.

1. Click the **Detail Settings** button in the Set window. If you do not currently have any user-defined User IDs or Station IDs programmed into the instrument, the screen will appear as shown below.

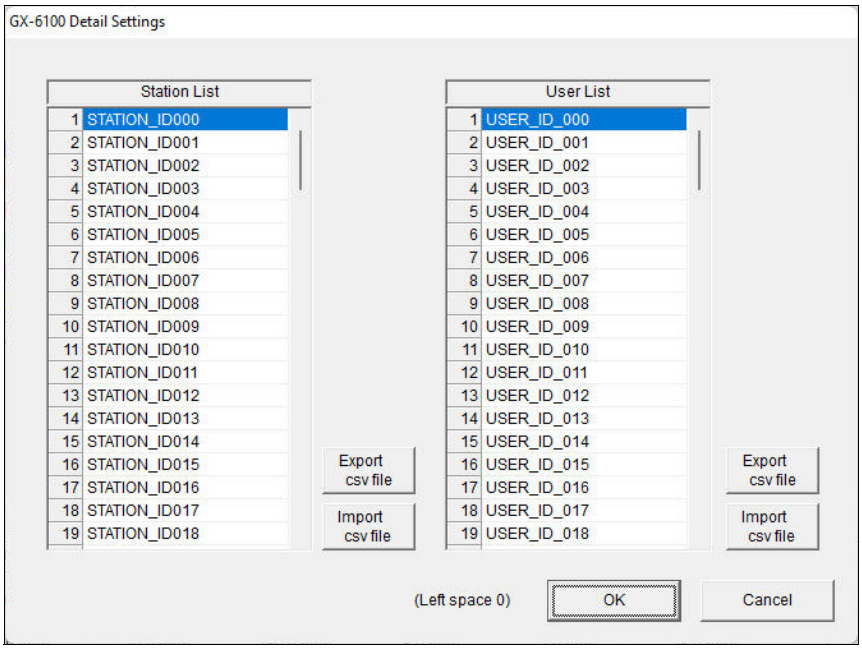


Figure 49: Detail Settings Window

The Station ID list is shown on the left and the User ID list is shown on the right. Both lists have **Export csv file** and **Import csv file** buttons located to the right of each list.

If the instrument had any user-defined station or user IDs, they would be displayed in the appropriate list.

2. Double click the station or user ID you wish to change and delete the existing information. Type in the new station or user ID. Each ID can be up to 16 characters long and can contain uppercase letters or numbers.
3. Click **OK** to save the changes and return to the Set window.
4. The new station and user ID lists will be visible in the Station ID and User ID selection boxes in the Set window. Use the drop down menu to select a current station and user ID for the instrument.
5. To upload the updated station and/or user ID list to the instrument and upload any other changes you have made, click **Update** and click **OK** when the confirmation box appears.

Updating Station and User ID Lists Using .csv Files

Station and user ID lists can also be edited by using .csv files.

1. Click the **Detail Settings** button in the Set window. If you do not currently have any user-defined User IDs or Station IDs programmed into the instrument, the screen will appear as shown below.

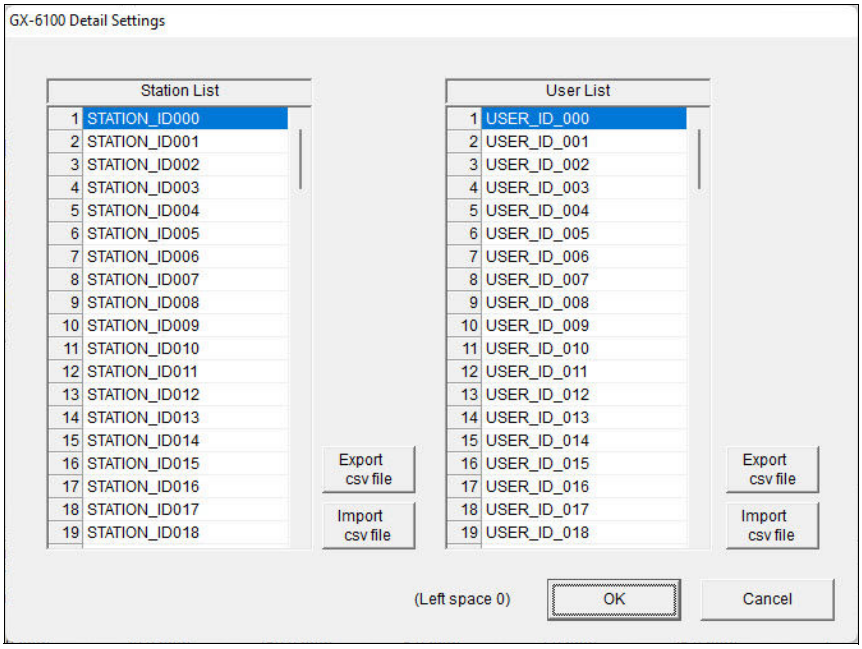


Figure 50: Detail Settings Window

The Station ID list is shown on the left and the User ID list is shown on the right. Both lists have **Export csv file** and **Import csv file** buttons located to their right.

2. To create a new ID list, click the appropriate **Export csv file** button. In the example file in Figure 51, the Station ID's **Export csv file** button was clicked.

3. Navigate to the file storage location, type in a file name, and click **Save**.

4. Open the .csv file in a word processing program such as Word, WordPad, or Notepad. Below is an example of the Station .csv file opened in Notepad.

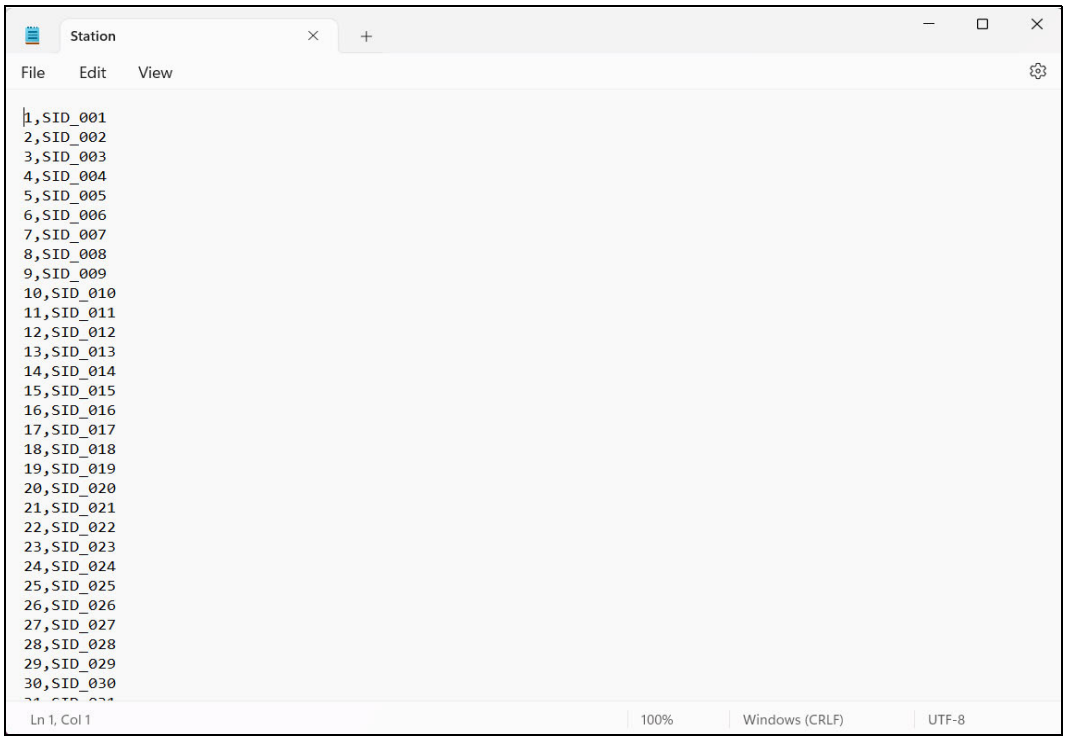


Figure 51: Station ID .csv File Opened in Notepad

5. Any existing Station or User IDs are displayed. Factory-loaded Station or User IDs have a SID_XXX or U_ID_XXX appearance.
6. Delete the existing name and replace it with the desired name. The name can be up to 16 characters long and may be any uppercase letter or number.

Importing .csv Files

1. Locate an existing Station ID or User ID .csv file. See above for instructions to generate a .csv file.
2. In the Detail Settings window, click the appropriate **Import csv file** button.

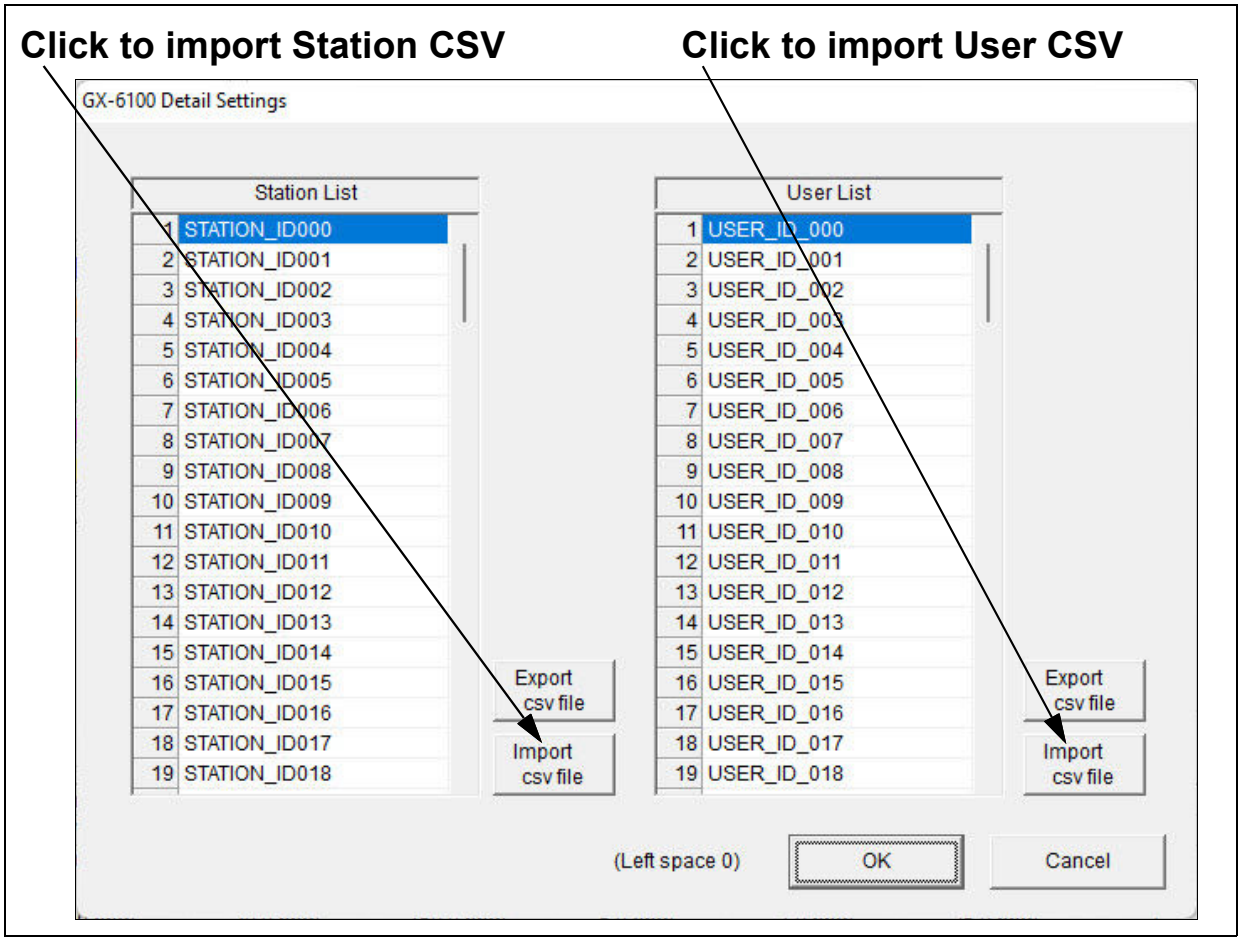


Figure 52: Import CSV File

3. Select the file you want to import and click **Open**.
4. Click **OK** to save changes and return to the Set window.
5. The new station and user ID lists will be visible in the Set window's Station ID and User ID selection boxes. Use the drop down menu to select a current station and user ID.
6. Click **Update** and then **Yes** in the confirmation window to upload the changes to the instrument.

Chapter 8: Set Window (Program Appearance)

The program font and the graph colors can be changed using the Set window.

1. Launch the Data Logger program.
2. Click **Set**.

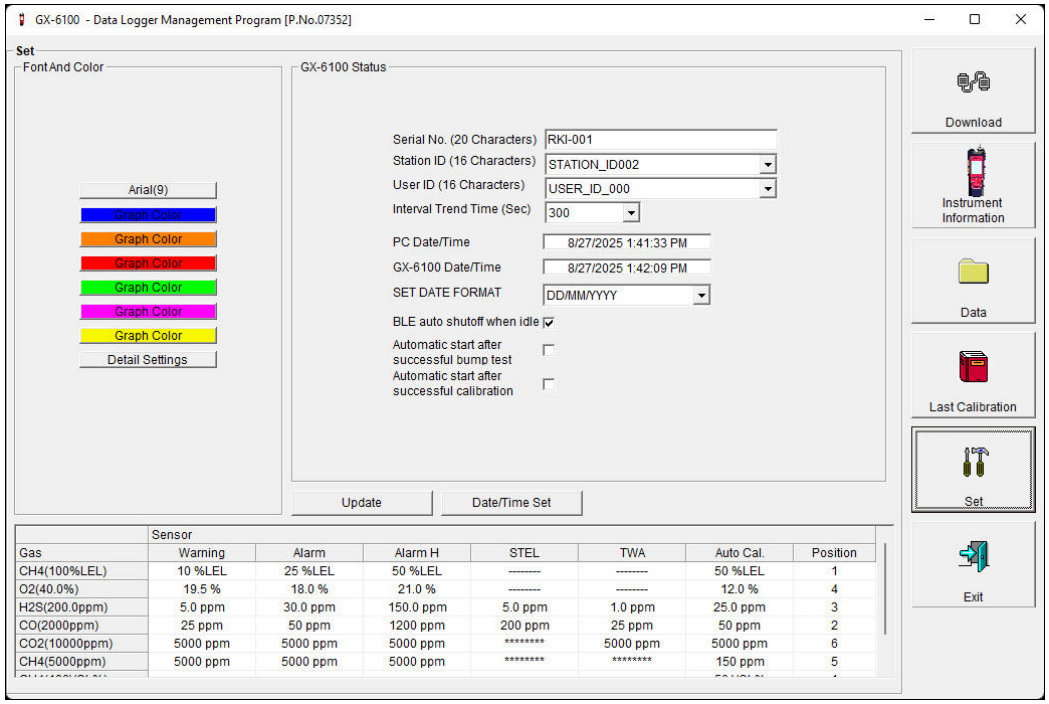


Figure 53: Set Window

Changing the Font

1. Click the font name button.

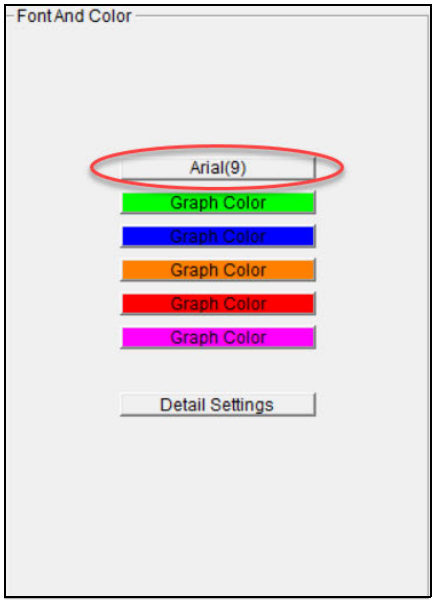


Figure 54: Font Button

2. Choose the font type, style, size, and script in the Font Window.

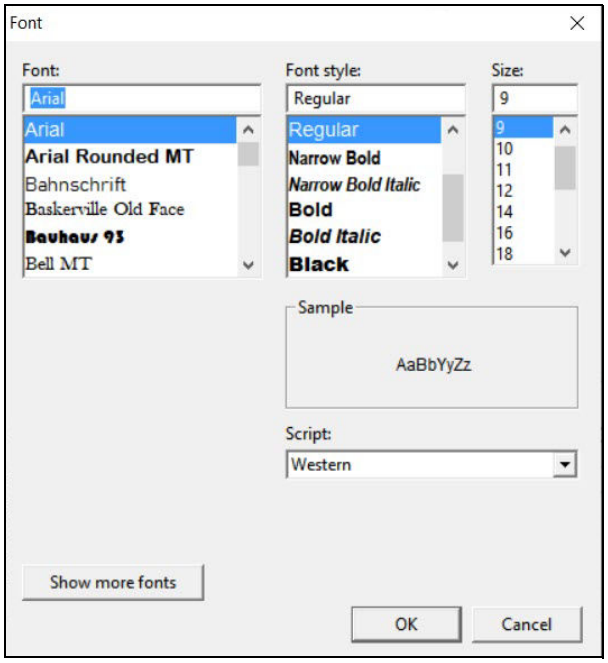


Figure 55: Font Window

3. Click **OK**.
4. The changes will take effect after you exit and restart the program.

Changing Graph Colors

1. Click the appropriate **Graph Color** button on the left side of the Set Window.

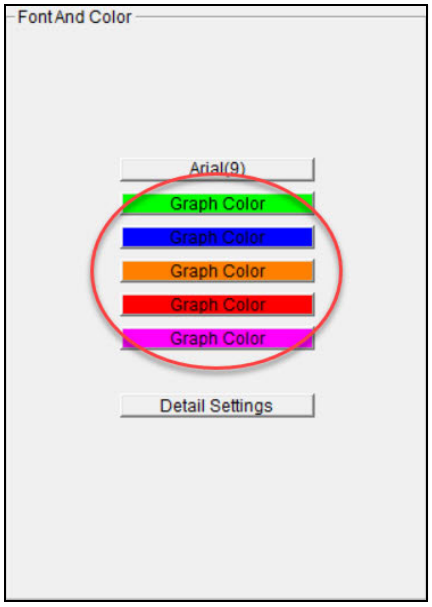


Figure 56: Graph Color Buttons

2. Pick a new graph color from the Color Window.

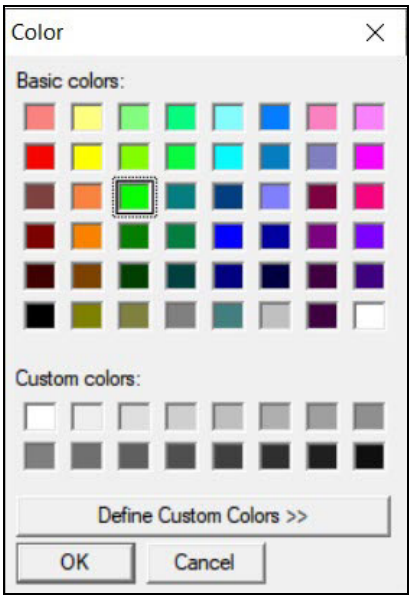


Figure 57: Color Windows

3. If you want to define a custom color, click the **Define Custom Colors** button and the Custom Color Window replaces the Color Window.

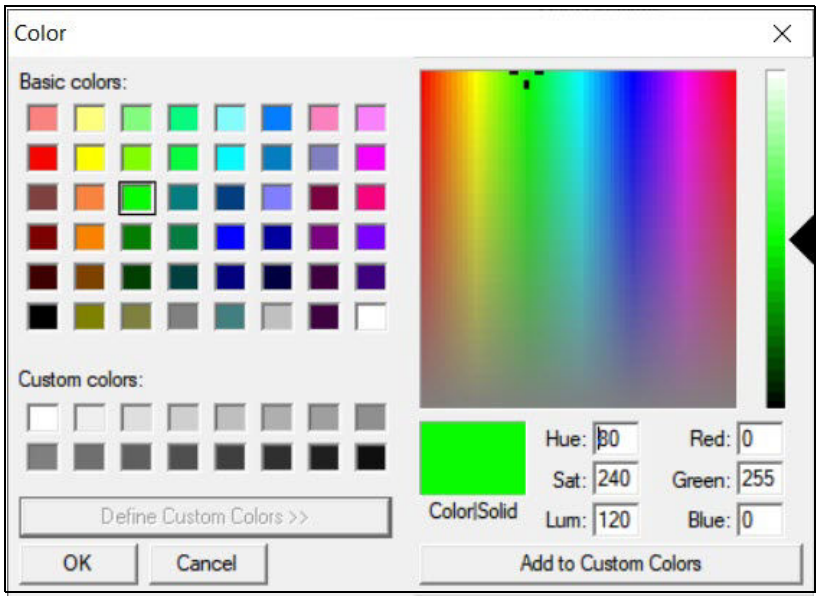


Figure 58: Custom Color Windows

4. Click **OK**.
5. The changes will take effect after you exit and restart the program.

Chapter 9: Spare Parts List

Table 3: Spare Parts List

Part Number	Description
47-5124	IrDA adapter module only
47-5124-01	IrDA Adapter Module with USB extender cable
71-0705	*GX-6100 Data Logger Operator's Manual* (this document)