RIKEN KEIKI

Portable Gas Detector

GX-6100

Data Logger Management Program

SW-GX-6100

Operating Manual

RIKEN KEIKI Co.,Ltd.
2-7-6 Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan
Phone : +81-3-3966-1113
Fax : +81-3-3558-9110
E-mail : intdept@rikenkeiki.co.jp
Web site : https://www.rikenkeiki.co.jp/english/

1. Introduction

The operating procedures and precautions described in this operating manual apply only for use in accordance with the stipulated purposes. RIKEN KEIKI rejects all liability in cases involving use of the program in ways not described in this operating manual.

This operating manual omits descriptions of basic operations like command selection and dialog box settings for Microsoft Windows 10 and Microsoft Windows 11.
Please read the Windows manual and familiarize yourself with basic Windows operations before using the program.
Keep this operating manual on hand to allow ready reference during use.
For basic operation of the GX-6100 main unit, refer to the following instruction manual.

- Portable Gas Detector GX-6100 Operating Manual (PT0E-252)

⚠WARNING

The CD on which this program is provided is a CD-ROM.
Do not attempt to play this CD on a regular audio CD player.
High audio volumes may damage your ears or speakers.

CAUTION

Requires pointing device.
This software requires the use of a pointing device such as a mouse or touchpad. It cannot be used with a keyboard alone.

1-1. Software purpose and features

This software program is designed to import data collected using the data logger function of the GX-6100 into a PC for various purposes.
Importing data collected using the data logger function into a PC offers the following benefits:

- Allows collected data to be listed.
- Allows collected data details to be viewed in graph or table form.
- Allows graph and table data to be printed and stored as hard copies.
- Retains records of past data.
- Eliminates the need to write down data on paper by hand.
- Helps identify devices that require adjustment.
- Simplifies the management of multiple devices.

NOTE

- Unauthorized reprinting or reproduction of the contents of this document in part or in whole is strictly prohibited, unless otherwise stipulated by law.
- The contents of this document are subject to change without notice to allow product improvements.
- The user must accept the separately provided Software License Agreement before using this product. Opening the product package constitutes consent to the terms of the license agreement.
- Use this software solely for the intended purpose. Modifying the software or using the software in a manner departing from this manual may affect product safety and quality. RIKEN KEIKI rejects all liability for any incidents or damages arising from failure to observe the warnings indicated above.

Contents

Page

2. Installing and Uninstalling

2-1. Operating environment precautions

This program is compatible with the Microsoft Windows 10 and Windows 11 operating systems. The program is not compatible with other operating systems.
This program requires up to approximately 41 MB of free hard disk space to install. It may require additional space, depending on the number of data samples. Make sure sufficient disk space is available.

CAUTION

Precautions regarding handling of the CD-ROM
1. CD-ROM storage Do not store in locations subject to direct sunlight or high temperatures and humidity. 2. CD-ROM drive type Do not insert into slot-loading CD-ROM drives. The label on the CD-ROM may prevent the CD-ROM from ejecting properly. Load the CD-ROM into a tray-loading CD-ROM drive.

The program uses a virtual PC COM port with a USB to UART bridge controller.
The USB to UART bridge controller used is the Silicon Laboratories CP2102N.
Serial port settings:
Baud rate: 921,600 bps, Data: 8 bits, Parity: None, Stop bit: 1
Obtaining the driver:
Download the CP210x USB Virtual COM Port (VCP) from the Silicon Laboratories website (see below) and install the driver.
https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

2-2. Installing the software

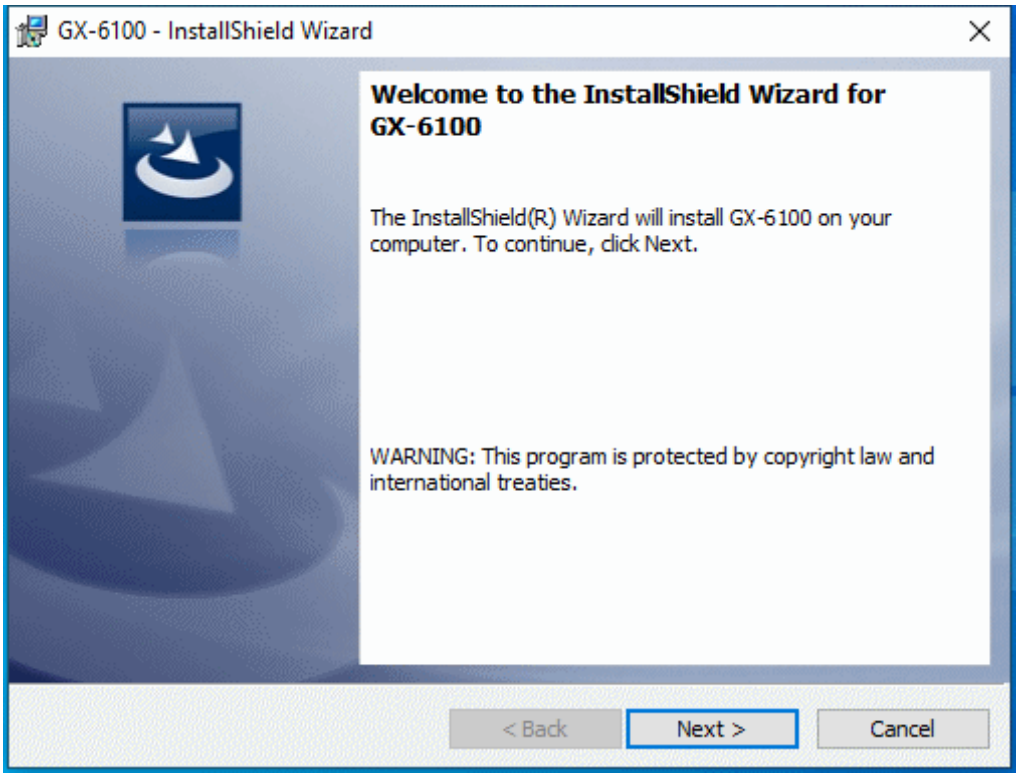
Insert the install CD containing this program into the CD-ROM drive of your PC.
The installation screen will appear automatically after a short while.
Do the following if the PC does not support automatic CD-ROM startup:
1. Open the CD-ROM drive in Explorer.
2. Double-click on the [setup.exe] file.

Note: Install using a user account with administrator rights.

2-3. Installation procedure

● Launch setup

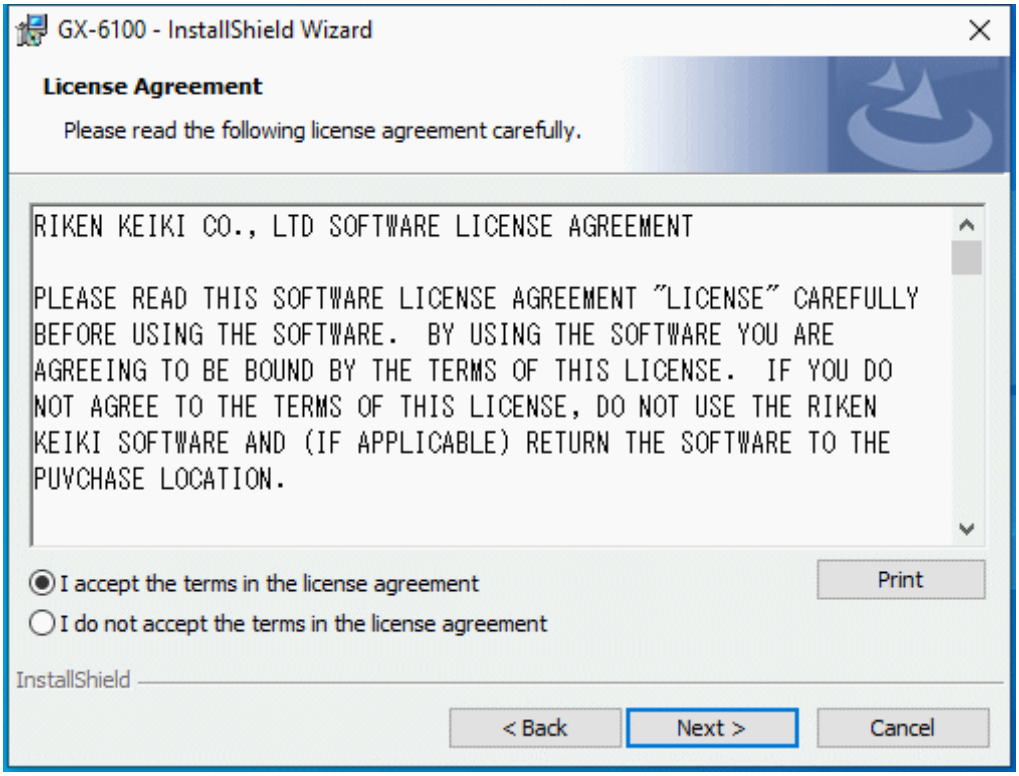
The following screen will appear after the CD-ROM is inserted or setup.exe is launched.



Click the [Next] button.

● Accept license agreement

The following screen will appear:

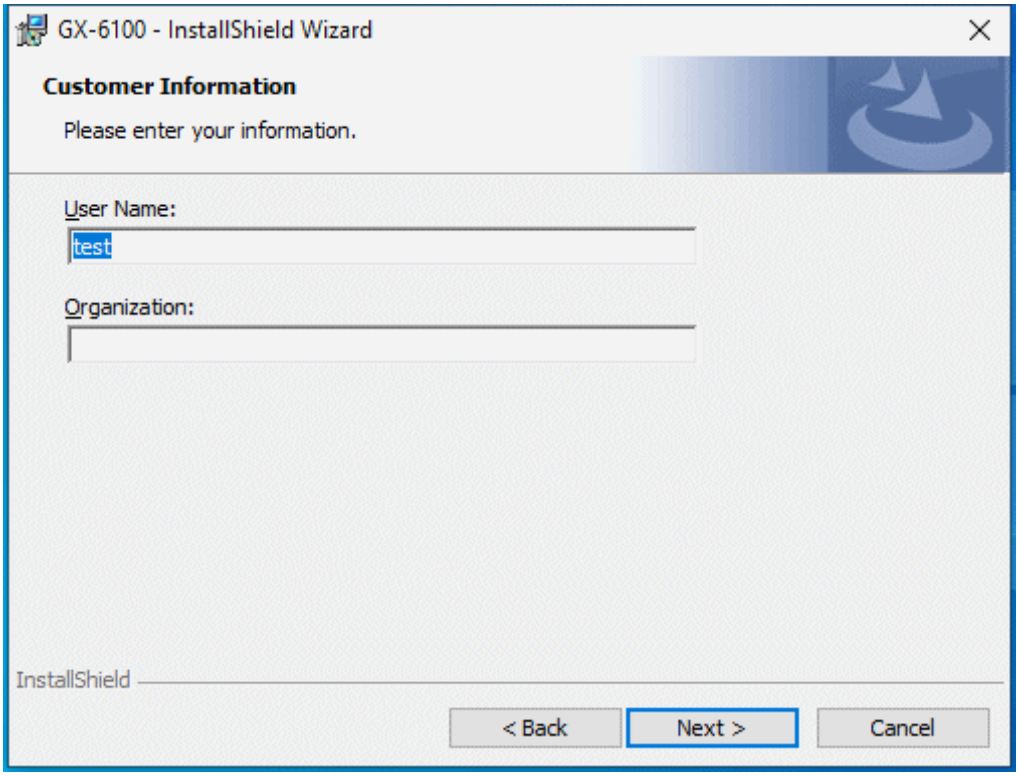


To install the software, click the [Next] button. To abort the process, click the [Cancel] button.

CAUTION: Make sure you have read and fully understand the terms of the software license agreement before installing the software.

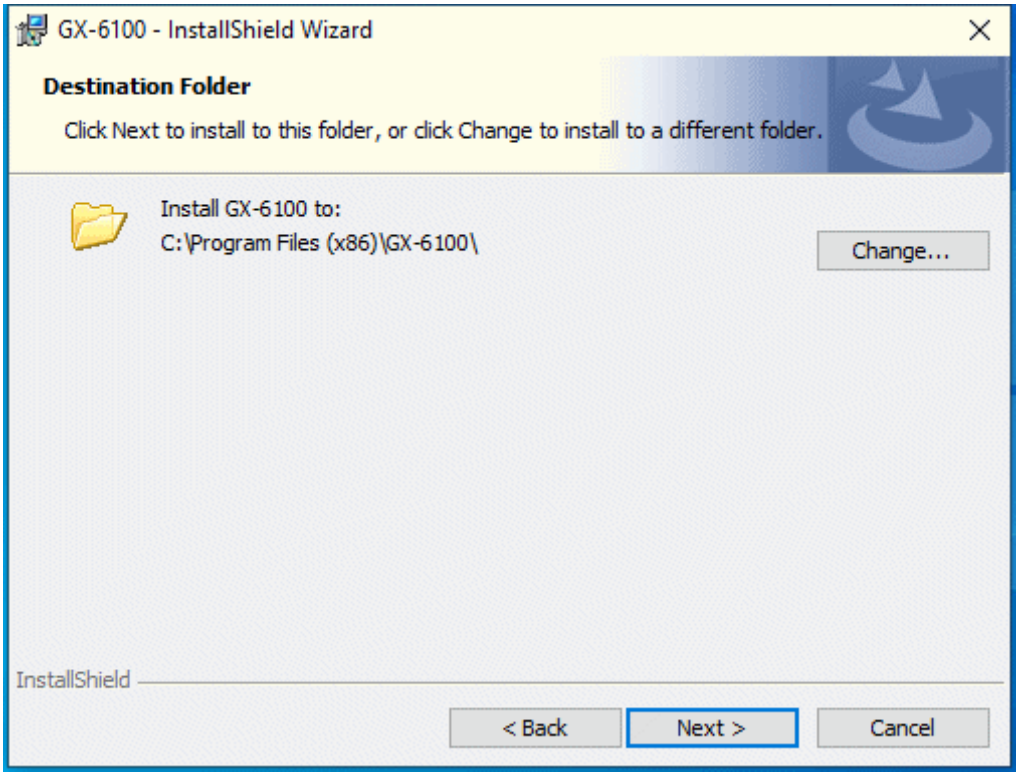
● User information

Click the [Next] button to display the following screen:



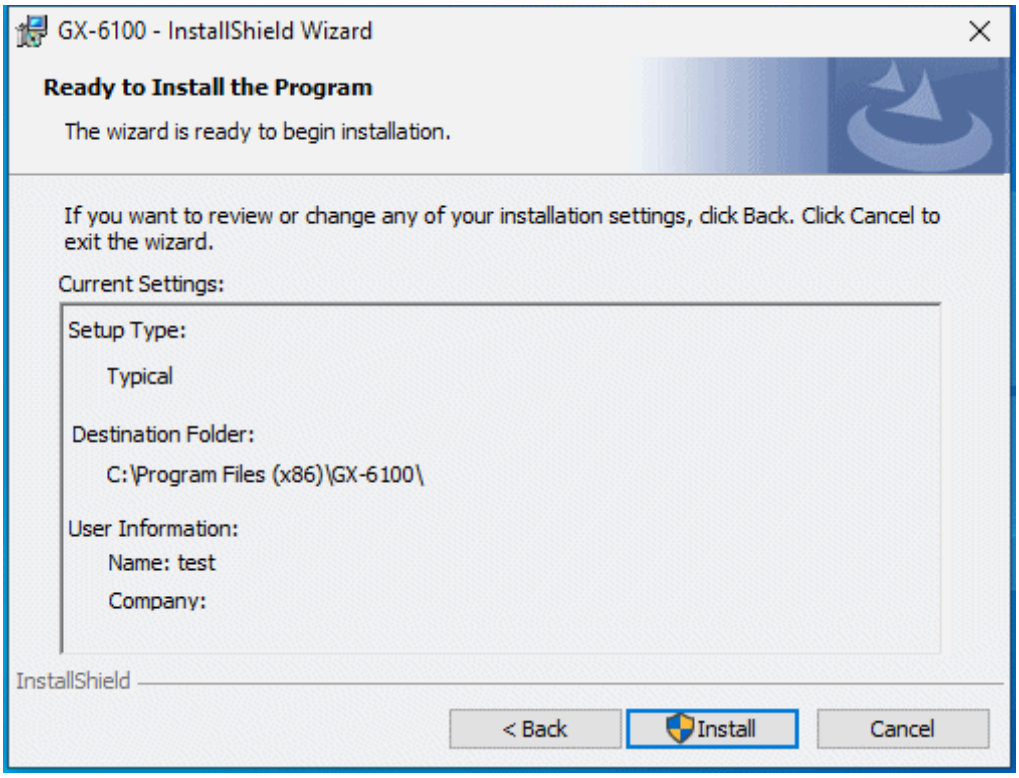
Enter user information on the Customer Information screen, then click the [Next] button to display the following screen:

● Destination folder



To install in this folder, click the [Next] button. To install in a different folder, click the [Change...] button.

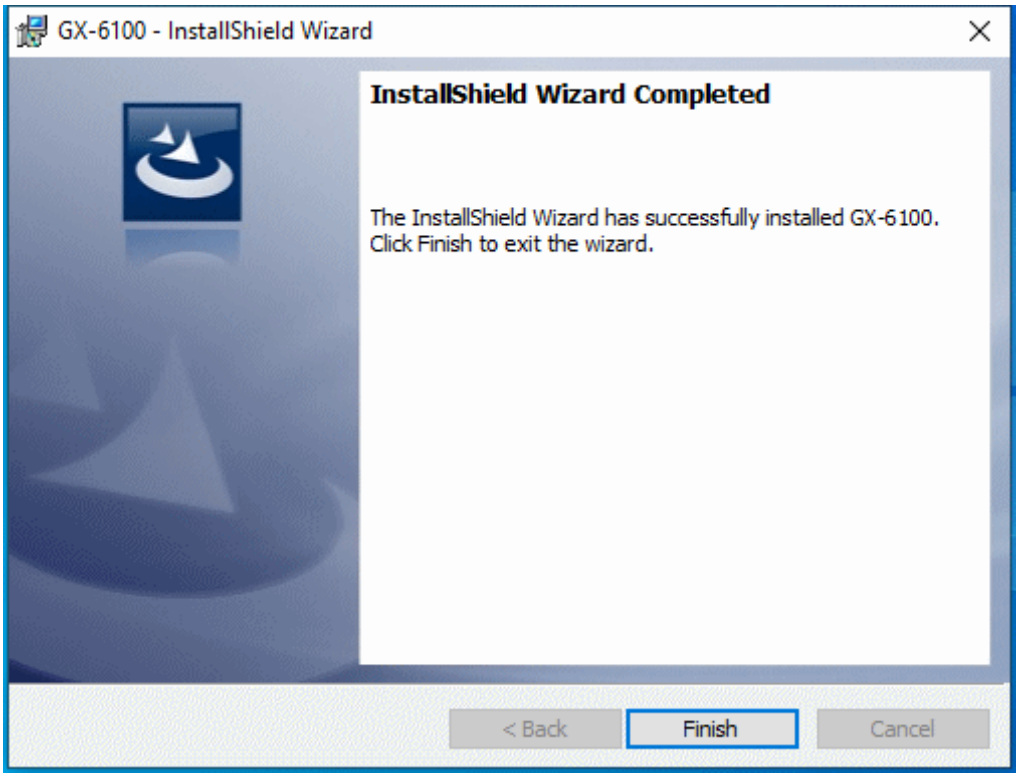
● Start setup



Click the [Install] button to begin installing.
* The User Account Control window is displayed. Click [Yes].

● Complete

The following screen will appear once setup is complete:



The program can be used as soon as setup is complete.

CAUTION

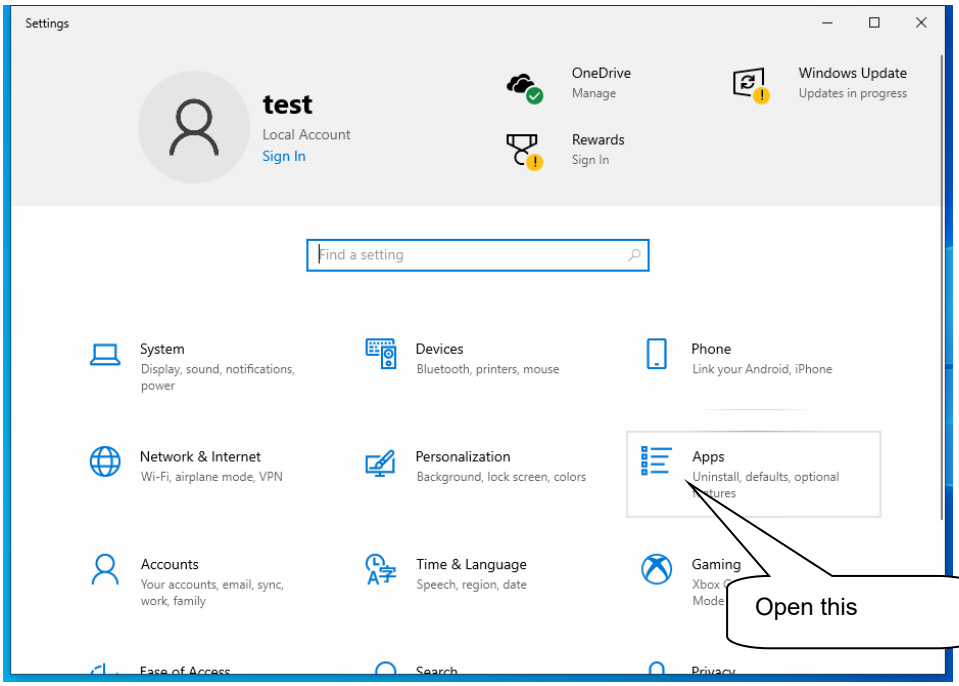
Saving past data before reinstalling
Note the following precautions if reinstalling the program: 1. Uninstall the program before reinstalling. 2. If the program is uninstalled after it has been used, certain files will remain undeleted. These include the [GX-6100.mdb] database file and [Data] folder. If you wish to save past data, save this file to another location before deleting the folder.

2-4. Uninstallation procedure

● Startup

To uninstall the software, click [Start] on the taskbar, click [Settings], and launch the Control Panel.

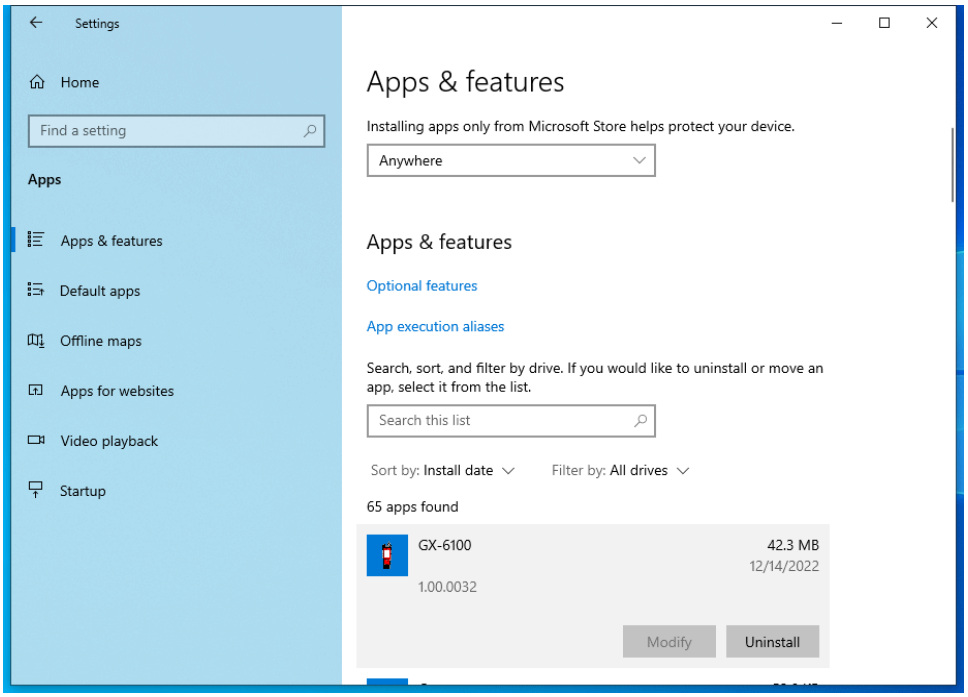
Control Panel (example)



Click to open [Apps] in the Control Panel.

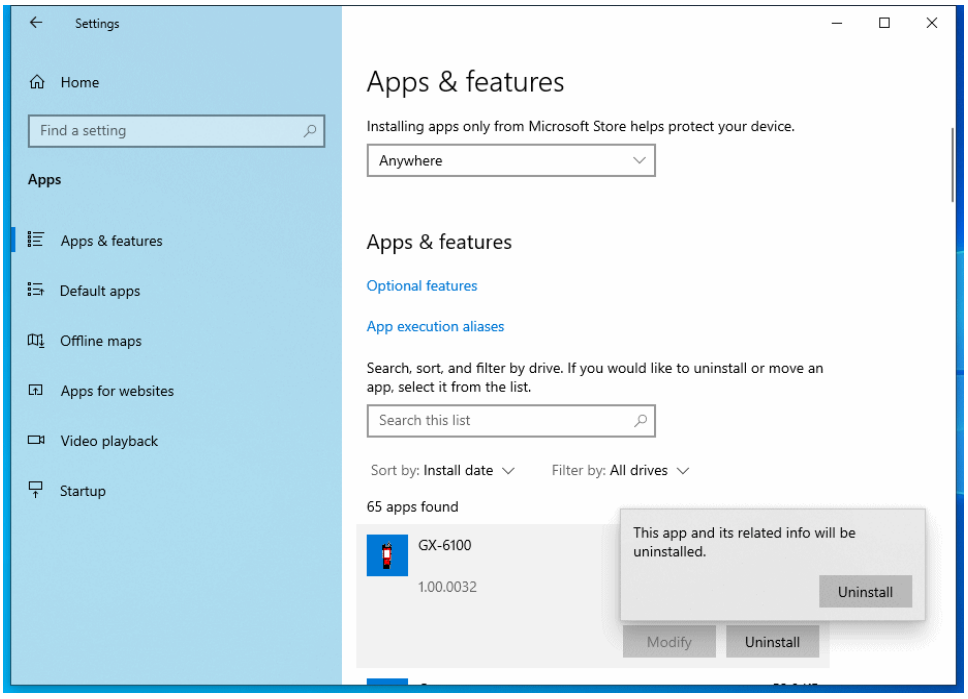
● Select GX-6100

Clicking [Apps] opens the following window:



Click [GX-6100].

● Start deletion



Click [Uninstall] to display the confirmation window.
Click [Uninstall] again in the confirmation window to begin uninstalling.
* The User Account Control window is displayed. Click [Yes].

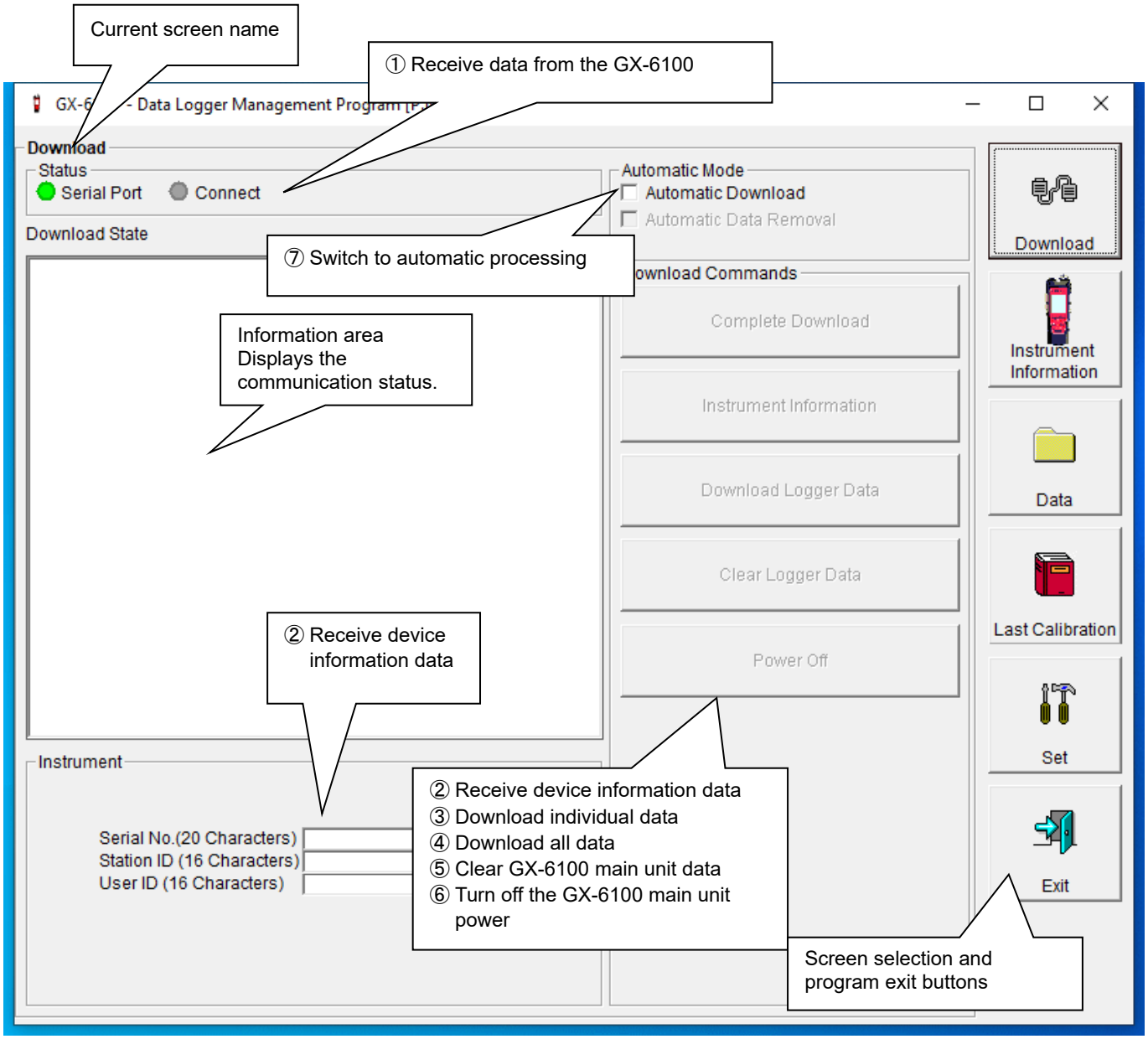
CAUTION: The message [Do you want to remove the shared file?] may appear during the uninstallation. Select [No]. Selecting [Yes] may affect other applications.

3. Operating Procedures

Start the program by double-clicking the [GX-6100] shortcut on the desktop or click the [Start] menu and start the program.

3-1. Download screen

The Download screen follows the splash screen.



To start data communication, connect using the dedicated IrDACOM adapter, start this program, and turn on the main unit. The program will automatically determine whether data communication is possible; if so, it will enter reception standby mode.

CAUTION: If connection becomes no longer possible, either change the position of the main unit or remove and reinsert the IrDACOM adapter.

① Receive data from the GX-6100

● Main unit preparation

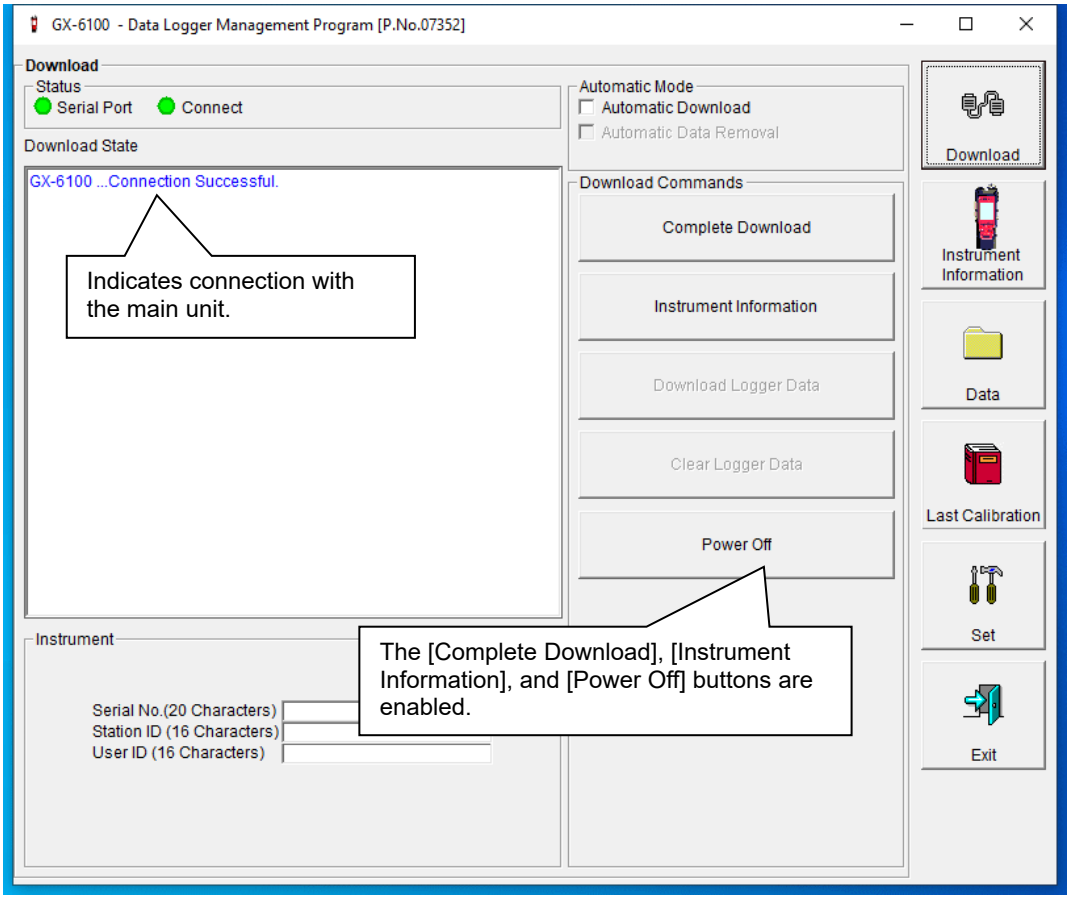
1. Start this software.
2. Place the GX-6100 in a location where communication is possible with the power turned off.
3. Turn on the power for the GX-6100 main unit.

CAUTION: Be sure to place the GX-6100 in a location where communication is possible before turning on the power.
The GX-6100 does not enter communication standby mode even if moved to a location where communication is possible with the power already on.

The LCD on the GX-6100 main unit will appear as shown on the right. →

PC
TRANSMIT

The information area displays the following information:



CAUTION: If the details shown in the information area differ from those shown above, turn off the GX-6100 main unit power and check the connection of the IrDACOM adapter before turning on the power once again.

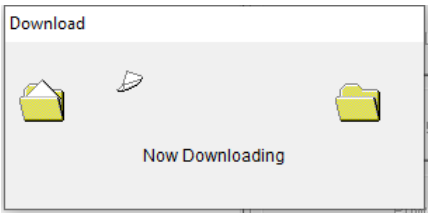
The [Status] area changes to indicate communication is possible.

[Serial Port]:
Communication possible: Green The PC port is available for use.
Communication not possible: Red
[Connect]:
Standby: Gray
Communicating: Green

② Receive device information data

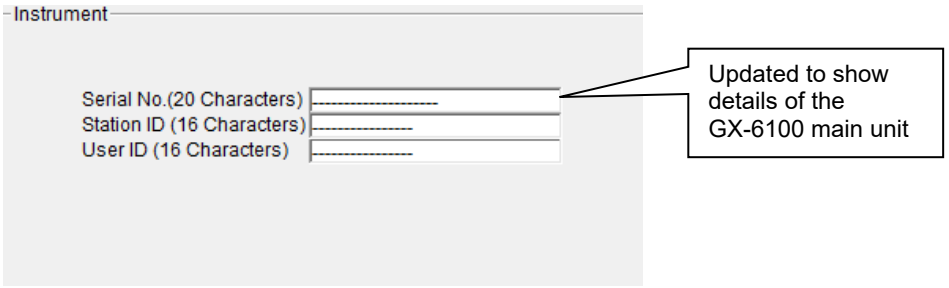
● Receive device information

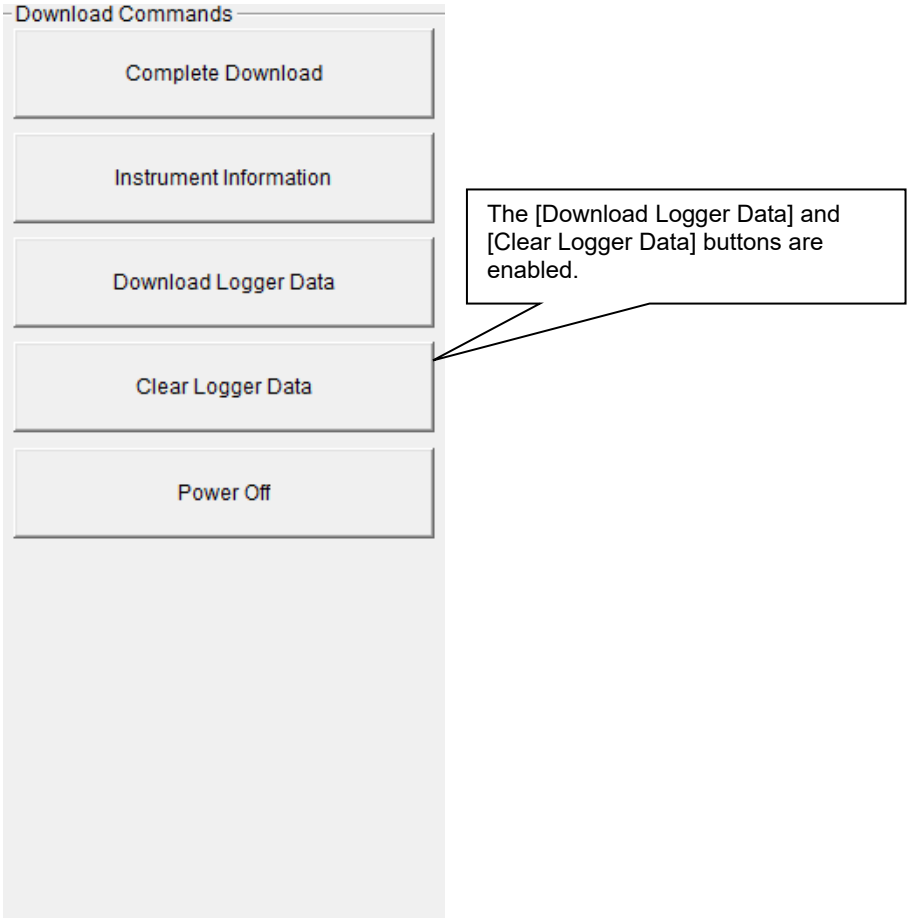
First, click the [Instrument Information] button to receive device information data.



An animated display will appear while data is being received.

Once the device information data has been received, the details shown in the [Instrument] area will be updated and the [Download Logger Data] and [Clear Logger Data] buttons enabled.



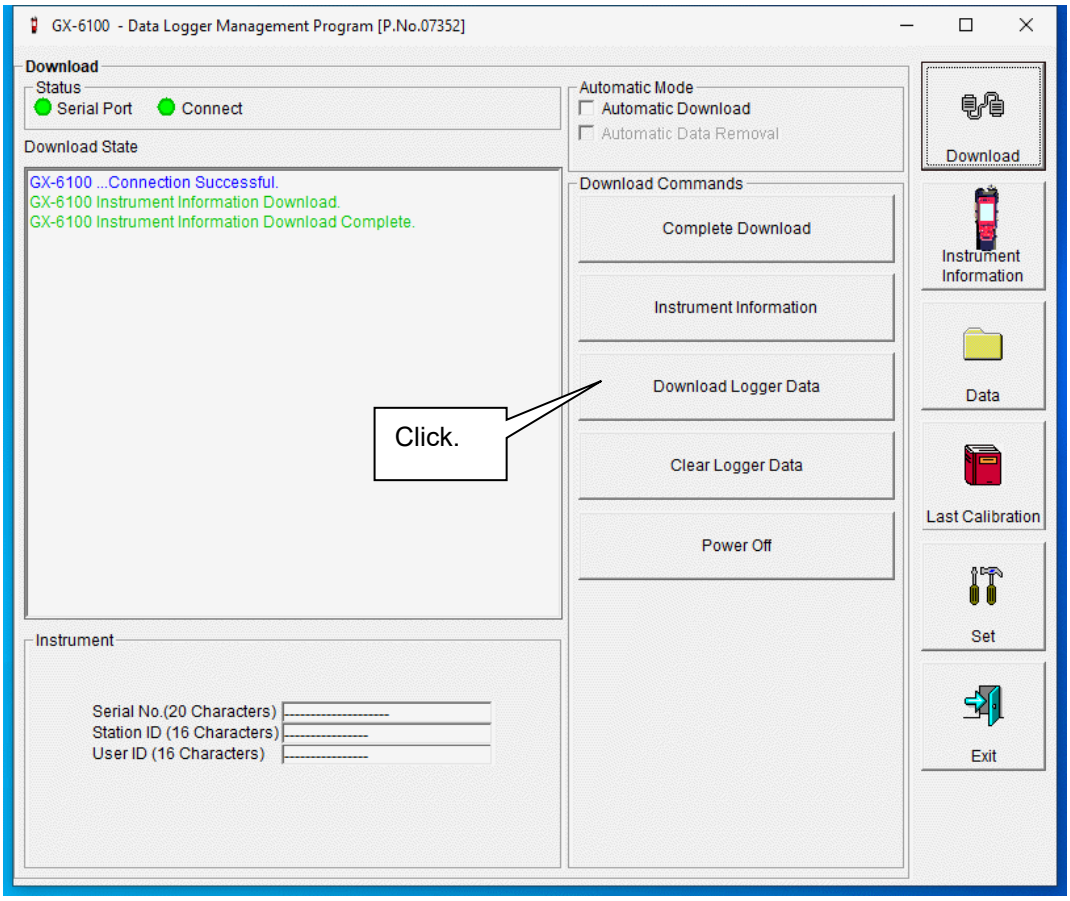


③ Download individual data

- Trend data
- Event data

After clicking the [Instrument Information] button and downloading the device information data, the [Download Logger Data] button is enabled.

Click the [Download Logger Data] button.



The information area displays the data receiving status.

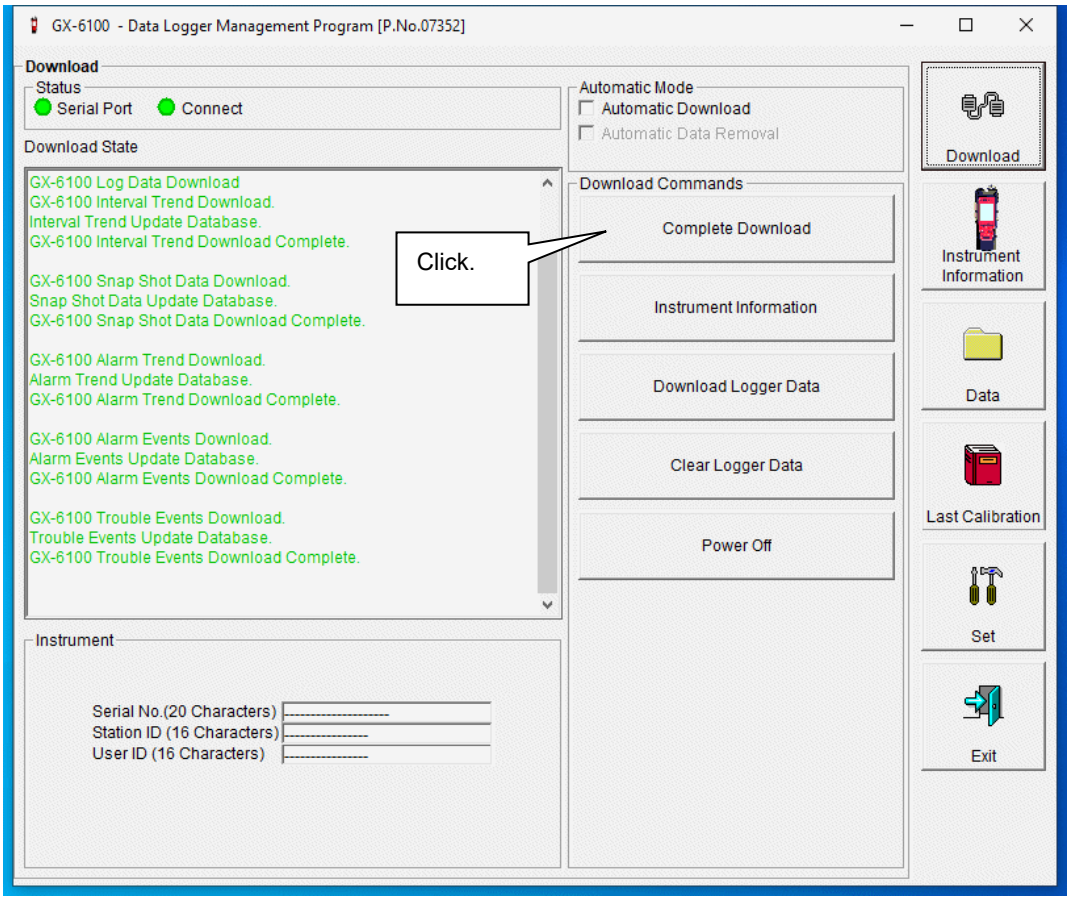
CAUTION: While data is being downloaded, other download buttons and the [Set] button are disabled to prohibit access to other data.

④ Download all main unit data

● All data

Clicking the [Complete Download] button downloads all data, including device information, interval trend, alarm trend, trouble event, and snapshot data.

Click the [Complete Download] button.



The information area displays the data receiving status.

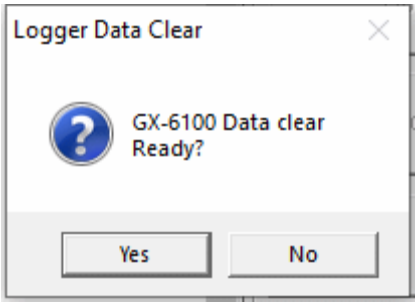
CAUTION: While data is being downloaded, other download buttons and the [Set] button are disabled to prohibit access to other data.

⑤ Clear GX-6100 main unit data

● Clear data

Clicking the [Clear Logger Data] button clears all data on the GX-6100.

Click the [Clear Logger Data] button.



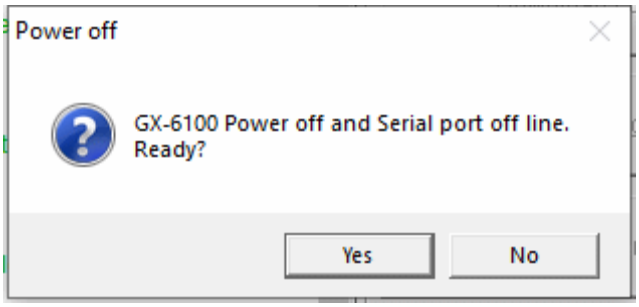
Click [Yes] to begin clearing data.
Once cleared, data cannot be restored. Store required data before clearing.

⑥ Turn off the GX-6100 main unit power

● Power off

Clicking the [Power Off] button turns off the power for the GX-6100 main unit and resets the PC serial port.

1. Click the [Power Off] button.

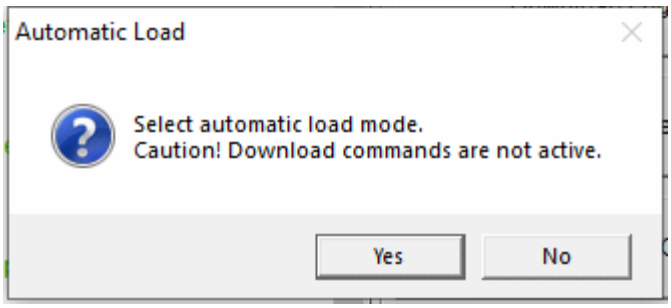


Click [Yes] to begin the process of turning off the GX-6100 main unit power and to reset the PC serial port before switching to standby to await data from the main unit.

⑦ Switch to automatic processing

● Automatic download mode

1. Select the [Automatic Download] checkbox (if not already selected).



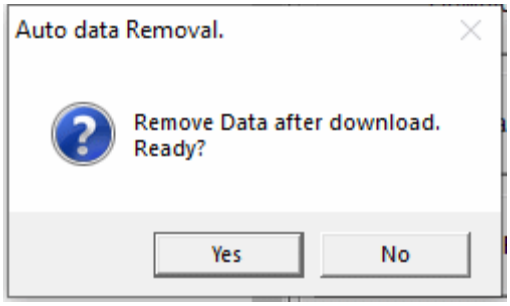
Click [Yes] to switch to automatic processing and download data from the main unit automatically when communication is performed next.
Click [No] to cancel the mode change.

● Automatic deletion after downloading

All data is automatically downloaded to the PC when the GX-6100 main unit power is turned on. The GX-6100 main unit is then turned off.
Data cannot be downloaded manually while automatic processing is underway.

Automatic processing can be configured to automatically delete downloaded data after it is downloaded.

1. Select the [Automatic Data Removal] checkbox.

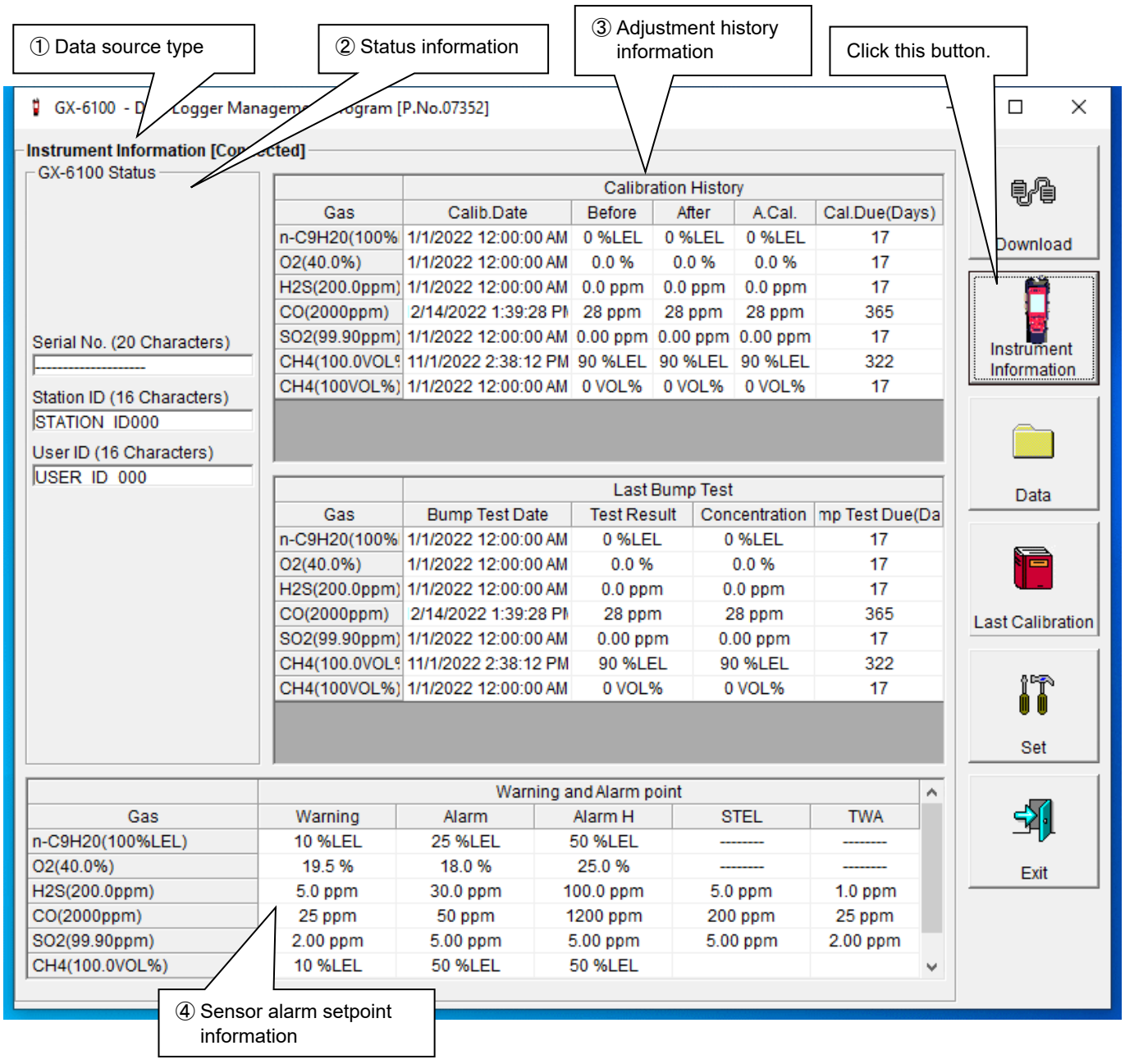


Click [Yes] to automatically delete all data on the GX-6100 after the data is downloaded.

* You can shorten the download time by repeating the download → delete → download process several times.

3-2. Instrument Information screen

Click the [Instrument Information] button on the right-hand side of the screen to display the following screen. This screen lists device information data about the connected GX-6100 main unit.



Calibration History

Gas	Calib.Date	Before	After	A.Cal.	Cal.Due(Days)
n-C9H20(100%	1/1/2022 12:00:00 AM	0 %LEL	0 %LEL	0 %LEL	17
O2(40.0%)	1/1/2022 12:00:00 AM	0.0 %	0.0 %	0.0 %	17
H2S(200.0ppm)	1/1/2022 12:00:00 AM	0.0 ppm	0.0 ppm	0.0 ppm	17
CO(2000ppm)	2/14/2022 1:39:28 PM	28 ppm	28 ppm	28 ppm	365
SO2(99.90ppm)	1/1/2022 12:00:00 AM	0.00 ppm	0.00 ppm	0.00 ppm	17
CH4(100.0VOL%	11/1/2022 2:38:12 PM	90 %LEL	90 %LEL	90 %LEL	322
CH4(100VOL%)	1/1/2022 12:00:00 AM	0 VOL%	0 VOL%	0 VOL%	17

Last Bump Test

Gas	Bump Test Date	Test Result	Concentration	mp Test Due(Da
n-C9H20(100%	1/1/2022 12:00:00 AM	0 %LEL	0 %LEL	17
O2(40.0%)	1/1/2022 12:00:00 AM	0.0 %	0.0 %	17
H2S(200.0ppm)	1/1/2022 12:00:00 AM	0.0 ppm	0.0 ppm	17
CO(2000ppm)	2/14/2022 1:39:28 PM	28 ppm	28 ppm	365
SO2(99.90ppm)	1/1/2022 12:00:00 AM	0.00 ppm	0.00 ppm	17
CH4(100.0VOL%	11/1/2022 2:38:12 PM	90 %LEL	90 %LEL	322
CH4(100VOL%)	1/1/2022 12:00:00 AM	0 VOL%	0 VOL%	17

Warning and Alarm point

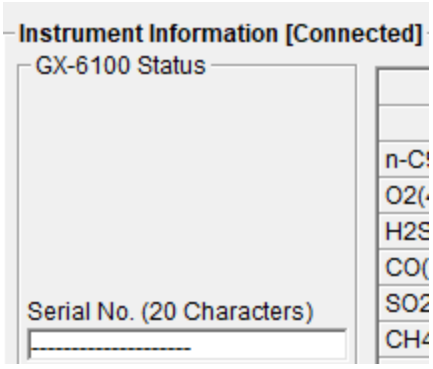
Gas	Warning	Alarm	Alarm H	STEL	TWA
n-C9H20(100%LEL)	10 %LEL	25 %LEL	50 %LEL	--------	--------
O2(40.0%)	19.5 %	18.0 %	25.0 %	--------	--------
H2S(200.0ppm)	5.0 ppm	30.0 ppm	100.0 ppm	5.0 ppm	1.0 ppm
CO(2000ppm)	25 ppm	50 ppm	1200 ppm	200 ppm	25 ppm
SO2(99.90ppm)	2.00 ppm	5.00 ppm	5.00 ppm	5.00 ppm	2.00 ppm
CH4(100.0VOL%)	10 %LEL	50 %LEL	50 %LEL		

CAUTION: This screen is view-only. Data cannot be edited. → Refer to '3-6. Set screen'.
Data is not displayed if the [Instrument Information] data has not been downloaded.

① Data source type

● Data source information

[Connected] is displayed when information about the connected multi-gas monitor main unit is displayed.

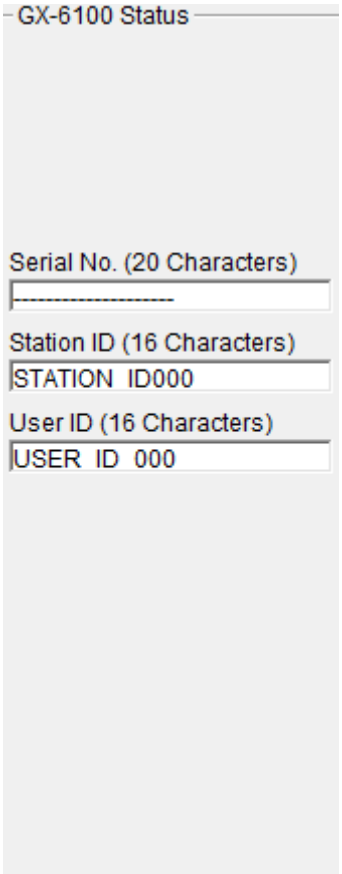


② Status information

● Information details

Displays the [Serial No.], [Station ID], and [User ID] stored inside the main unit.

CAUTION: These boxes are view-only and cannot be edited.



③ Adjustment history information

● Adjustment history details

	Calibration History				
Gas	Calib.Date	Before	After	A.Cal.	Cal.Due(Days)
n-C9H20(100%	1/1/2022 12:00:00 AM	0 %LEL	0 %LEL	0 %LEL	17
O2(40.0%)	1/1/2022 12:00:00 AM	0.0 %	0.0 %	0.0 %	17
H2S(200.0ppm)	1/1/2022 12:00:00 AM	0.0 ppm	0.0 ppm	0.0 ppm	17
CO(2000ppm)	2/14/2022 1:39:28 PM	28 ppm	28 ppm	28 ppm	365
SO2(99.90ppm)	1/1/2022 12:00:00 AM	0.00 ppm	0.00 ppm	0.00 ppm	17
CH4(100.0VOL%	11/1/2022 2:38:12 PM	90 %LEL	90 %LEL	90 %LEL	322
CH4(100VOL%)	1/1/2022 12:00:00 AM	0 VOL%	0 VOL%	0 VOL%	17

Details:

Gas:	Measured gas names (full-scale units)
Calib.Date:	Date of last adjustment
Before:	Concentration before last adjustment
After:	Concentration after last adjustment/adjustment failure
A.Cal.:	Automatic adjustment concentration
Cal.Due (Days):	Remaining period in unadjusted state (A warning is displayed in red when adjustment expires.)

● Bump test history details

	Last Bump Test			
Gas	Bump Test Date	Test Result	Concentration	mp Test Due(Da
n-C9H20(100%	1/1/2022 12:00:00 AM	0 %LEL	0 %LEL	17
O2(40.0%)	1/1/2022 12:00:00 AM	0.0 %	0.0 %	17
H2S(200.0ppm)	1/1/2022 12:00:00 AM	0.0 ppm	0.0 ppm	17
CO(2000ppm)	2/14/2022 1:39:28 PM	28 ppm	28 ppm	365
SO2(99.90ppm)	1/1/2022 12:00:00 AM	0.00 ppm	0.00 ppm	17
CH4(100.0VOL%	11/1/2022 2:38:12 PM	90 %LEL	90 %LEL	322
CH4(100VOL%)	1/1/2022 12:00:00 AM	0 VOL%	0 VOL%	17

Details:

Gas:	Measured gas names (full-scale units)
Bump Test Date:	Date of last bump test
Test Result:	Concentration result for last bump test
Concentration:	Calibration gas concentration for last bump test
Bump Test Due (Days):	Remaining period in no bump test state (A warning is displayed in red when the bump test expires.)

④ Sensor alarm setpoint information

● Details

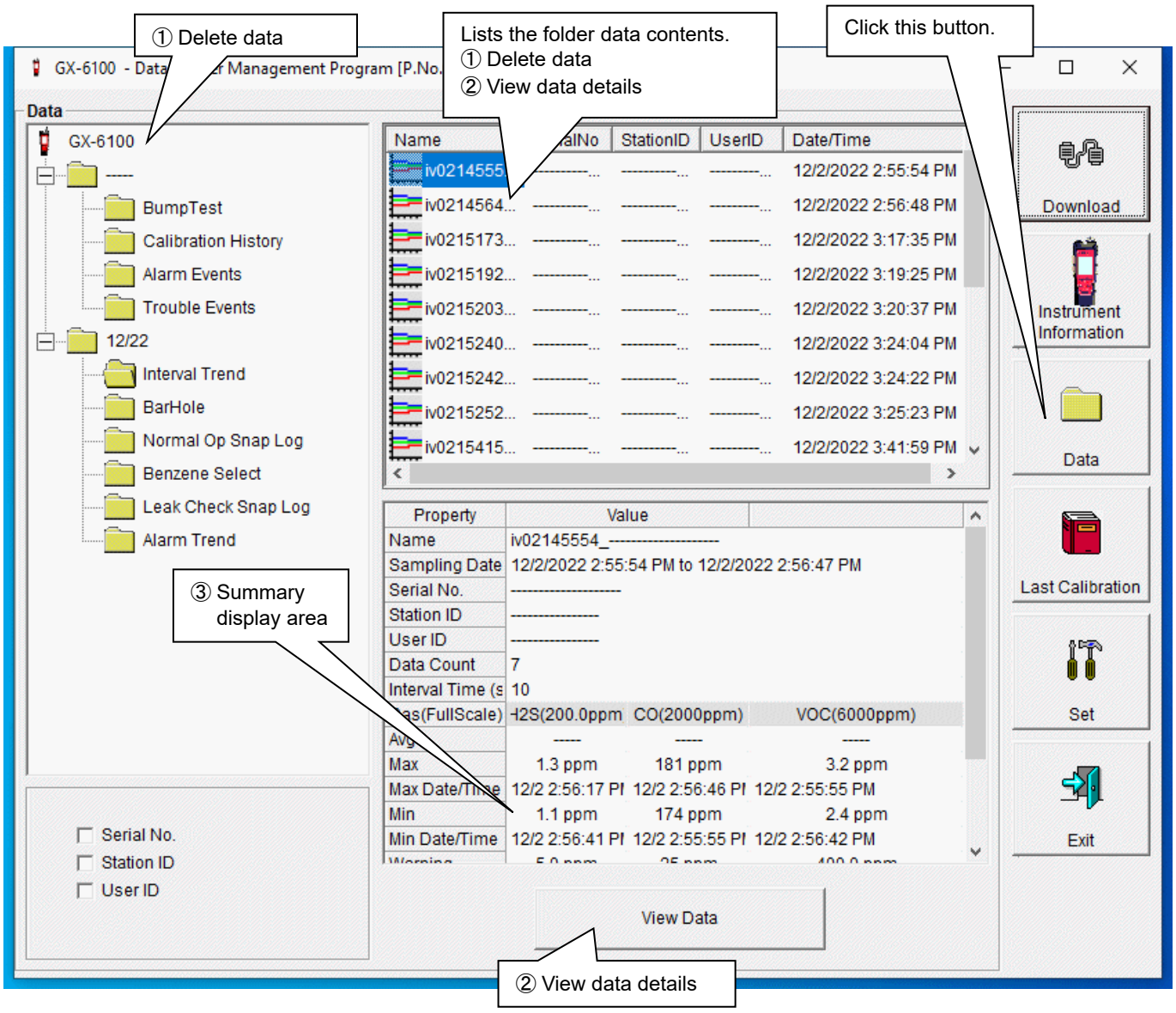
	Warning and Alarm point				
Gas	Warning	Alarm	Alarm H	STEL	TWA
n-C9H20(100%LEL)	10 %LEL	25 %LEL	50 %LEL	--------	--------
O2(40.0%)	19.5 %	18.0 %	25.0 %	--------	--------
H2S(200.0ppm)	5.0 ppm	30.0 ppm	100.0 ppm	5.0 ppm	1.0 ppm
CO(2000ppm)	25 ppm	50 ppm	1200 ppm	200 ppm	25 ppm
SO2(99.90ppm)	2.00 ppm	5.00 ppm	5.00 ppm	5.00 ppm	2.00 ppm
CH4(100.0VOL%)	10 %LEL	50 %LEL	50 %LEL		
CH4(100VOL%)	--------	--------	--------	--------	--------

Details:

Gas:	Measured gas names (full-scale units)
Warning:	1st alarm setpoint concentration
Alarm:	2nd alarm setpoint concentration
Alarm H:	3rd alarm setpoint concentration
STEL:	STEL alarm setpoint concentration
TWA:	TWA alarm setpoint concentration

3-3. Data screen

Click the [Data] button on the right-hand side of the screen to display the following screen. This screen lists the downloaded data.



This screen can be operated in the same way as Windows Explorer. However, the following operations are not available:

1. Renaming data
2. Moving data to other locations

The Explorer-style folders are displayed hierarchically in order of serial number, station ID, and user ID.

The folder and data names have the following formats:

Folder name: 12/22 = Data for December 2022

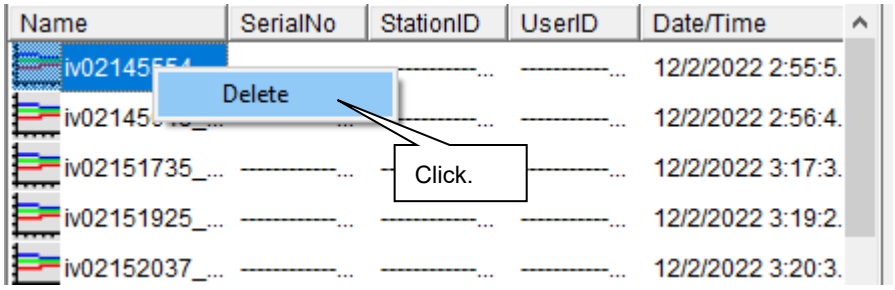
File name: 22111930_3EB = Interval trend for 11:19:30 on 22nd (date and time of logging start)
al26150419_3EB = Alarm trend for 15:04:19 on 26th (date and time of alarm occurrence)

The number of data samples allowed in each folder is limited by the PC's hard disk capacity. To maintain acceptable response times, you should back up data files. Refer to '4. Data Maintenance'.

① Delete data

● Delete

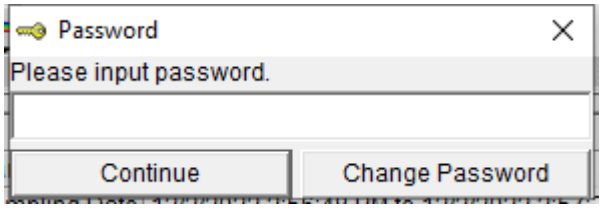
1. Click and select the data (folder) to delete.
2. Right-click without moving the mouse.



Click [Delete] on the [Delete] menu that appears.

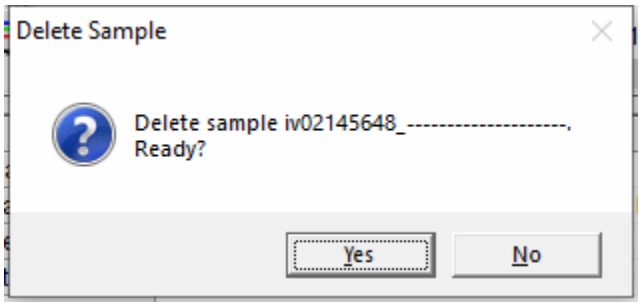
● Password input

1. Enter the password at the prompt, then click the [Continue] button.



CAUTION: Clicking [Continue] without entering a password will cancel deletion.

2. The following dialog will appear when you enter the correct password and click the [Continue] button:



Click the [Yes] button to delete the data.
Click the [No] button to cancel data deletion.
CAUTION: The default password immediately after installation is “Riken” (not case-sensitive). For instructions on how to change the password, refer to ‘④ Change password’ in ‘3-5 Last Calibration screen’.

② View data details

● To data details

1. Click the data the details of which you wish to view. Confirm that the summary appears in the summary display area, then click the [View Data] button.

Or:

2. Double-click the data the details of which you wish to view.
   For details of how to use data details: → Refer to ‘3-4. Data View screen’.

③ Summary display area

● Details

A summary of the data is displayed if the data selected is normal data.

Interval trend

Property	Value			
Name	iv05091153_----------			
Sampling Date/T	12/5/2022 9:11:53 AM to 12/5/2022 9:15:39 AM			
Serial No.	----------			
Station ID	----------			
User ID	----------			
Data Count	29			
Interval Time (se	10			
Gas(FullScale)	H2(100%LEL)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppr
Avg	0 %LEL	21.5 %	0.0 ppm	17 ppm
Max	0 %LEL	21.8 %	0.0 ppm	57 ppm
Max Date/Time	12/5 9:11:54 AM	12/5 9:14:00 AM	12/5 9:12:45 AM	12/5 9:12:49 A
Min	0 %LEL	18.5 %	-1.7 ppm	0 ppm
Min Date/Time	12/5 9:11:54 AM	12/5 9:12:49 AM	12/5 9:12:55 AM	12/5 9:15:14 A
Warning	10 %LEL	19.5 %	5.0 ppm	25 ppm
Alarm	25 %LEL	18.0 %	30.0 ppm	50 ppm

Name: Data name
Sampling Date/Time: Date and time of measurement start and end
Serial No./Station ID/User ID: GX-6100 main unit status
Data Count: Number of data samples
Interval Time (sec): Sampling interval (seconds)
Gas(FullScale): Gas (full scale)
Avg: Gas average value
Max: Gas data maximum value
Max Date/Time: Date and time of maximum value detection
Min: Gas data minimum value
Min Date/Time: Date and time of minimum value detection
Warning: 1st alarm setpoint
Alarm: 2nd alarm setpoint
Alarm H: 3rd alarm setpoint
STEL: STEL alarm setpoint
TWA: TWA alarm setpoint

Alarm events

DateTime	Ch	Gas	Event
12/5/2022 12:05:07 PM	4	CO(2000ppm)	WARNING
12/5/2022 12:05:06 PM	2	O2(40.0%)	WARNING
12/5/2022 10:50:43 AM	4	CO(2000ppm)	WARNING
12/5/2022 10:43:44 AM	4	CO(2000ppm)	WARNING
12/5/2022 10:39:57 AM	4	CO(2000ppm)	WARNING
12/5/2022 10:39:57 AM	4	CO(2000ppm)	ALARM
12/5/2022 10:32:24 AM	4	CO(2000ppm)	WARNING
12/5/2022 10:32:24 AM	4	CO(2000ppm)	ALARM
...	Total	51 Datas	

DateTime: Date and time of event occurrence
Ch: Channel
Gas: Gas generated
Event: Event type

Alarm trend

Property	Value			
Name	al05120506_----------			
Alarm Date/Time	12/5/2022 12:05:06 PM			
Serial No.	----------			
Station ID	----------			
User ID	----------			
Data Count	720			
Interval Time (se	5			
Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)
Value	0 %LEL	18.2 %	0.3 ppm	40 ppm
Warning	10 %LEL	19.5 %	5.0 ppm	25 ppm
Alarm	25 %LEL	18.0 %	30.0 ppm	50 ppm
Alarm H	50 %LEL	25.0 %	100.0 ppm	1200 ppm
STEL	-----	-----	5.0 ppm	200 ppm
TWA	-----	-----	1.0 ppm	25 ppm

Name: Data name
Alarm Date/Time: Date and time of alarm occurrence
Serial No./Station ID/User ID: GX-6100 main unit status
Data Count: Number of data samples
Interval Time (sec): Sampling interval
Gas(FullScale): Gas (full scale)
Value: Concentration at time of alarm occurrence
Warning: 1st alarm setpoint
Alarm: 2nd alarm setpoint
Alarm H: 3rd alarm setpoint
STEL: STEL alarm setpoint
TWA: TWA alarm setpoint

Adjustment history

DateTime	Gas	Before	After
12/5/2022 12:12:04 PM	CH4(100vol%)	-----	-----
12/5/2022 12:12:04 PM	O2(40.0%)	-----	-----
12/5/2022 12:12:04 PM	H2S(200.0ppm)	0.0 ppm	0.0 ppm
12/5/2022 12:12:04 PM	CO(2000ppm)	-----	-----
12/5/2022 12:12:04 PM	SO2(99.90ppm)	-----	-----
12/5/2022 12:12:04 PM	CH4(100.0vol%)	-----	-----
	----(---)	-----	-----

DateTime: Date and time of event occurrence
Gas: Gas
Before: Concentration before adjustment
After: Concentration after adjustment

Trouble events

DateTime	Ch	Gas/Body	Event
12/5/2022 12:12:04 PM	5	SO2(99.90ppm)	Fail(Span)
12/5/2022 12:11:37 PM	5	SO2(99.90ppm)	Fail(BUMP)
12/2/2022 4:11:30 PM	4	CO(2000ppm)	Fail(Air)
12/2/2022 3:24:04 PM	6	VOC(100.0ppm)	Fail(Com.)
12/2/2022 3:24:04 PM	5	VOC(6000ppm)	Fail(Com.)

DateTime: Date and time of event occurrence
Ch: Channel
Gas/Body: Gas generated or GX-6100 main unit
Event: Event type

Bump test

DateTime	Gas	Test Result	Concentration	Judge
12/5/2022 12:11:37 P	CH4(100vol%)	-----	-----	-----
12/5/2022 12:11:37 P	O2(40.0%)	-----	-----	-----
12/5/2022 12:11:37 P	H2S(200.0ppn	-----	-----	-----
12/5/2022 12:11:37 P	CO(2000ppm)	-----	-----	-----
12/5/2022 12:11:37 P	SO2(99.90ppn	0.00 ppm	0.00 ppm	FAIL
12/5/2022 12:11:37 P	CH4(100.0vol%	-----	-----	-----

DateTime: Date and time of event occurrence
Gas: Gas
Test Result: Test result concentration
Concentration: Calibration gas concentration
Judge: Test assessment

Normal measurement snap log

Property	Value			
Name	ss05120512_----------			
Sampling Date/T	12/5/2022 12:05:12 PM			
Serial No.	----------			
Station ID	----------			
User ID	----------			
-----	-----			
-----	-----			
Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)
Concentration	0 %LEL	19.5 %	0.0 ppm	20 ppm

Name: Data name
Sampling Date/Time: Time recorded
Serial No./Station ID/User ID: GX-6100 main unit status
Gas(FullScale): Gas (full scale)
Concentration: Concentration recorded

* Click the [View Data] button to display a list of data for the same measurement time, including alarm status data.

Bar hole

Property	Value			
Name	iv05123016_----------			
Sampling Date/T	12/5/2022 12:30:16 PM to 12/5/2022 12:30:46 PM			
Serial No.	----------			
Station ID	----------			
User ID	----------			
-----	-----			
Interval Time (se	30			
Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)
Max	-----	20.9 %	-----	-----
Max Date/Time	-----	12/5 12:30:16 PM	-----	-----
Min	-----	20.9 %	-----	-----
Min Date/Time	-----	12/5 12:30:16 PM	-----	-----

Name: Data name
Sampling Date/Time: Time recorded
Serial No./Station ID/User ID: GX-6100 main unit status
Gas(FullScale): Gas (full scale)
Interval Time (sec): Sampling interval (seconds)
Gas(FullScale): Gas (full scale)
Max: Gas data maximum value
Max Date/Time: Date and time of maximum value detection
Min: Gas data minimum value
Min Date/Time: Date and time of minimum value detection

Leak check snap log

Property	Value
Name	ss05122750_----------
Sampling Date/Time	12/5/2022 12:27:50 PM
Serial No.	----------
Station ID	----------
User ID	----------
-----	-----
-----	-----
Gas(FullScale)	CH4(500ppm)
BASE	-50 ppm

Name: Data name
Sampling Date/Time: Time recorded
Serial No./Station ID/User ID: GX-6100 main unit status
Gas(FullScale): Gas (full scale)
BASE: Base record concentration

* Click the [View Data] button to display a list of data for the same measurement time, including peak data.

Benzene select

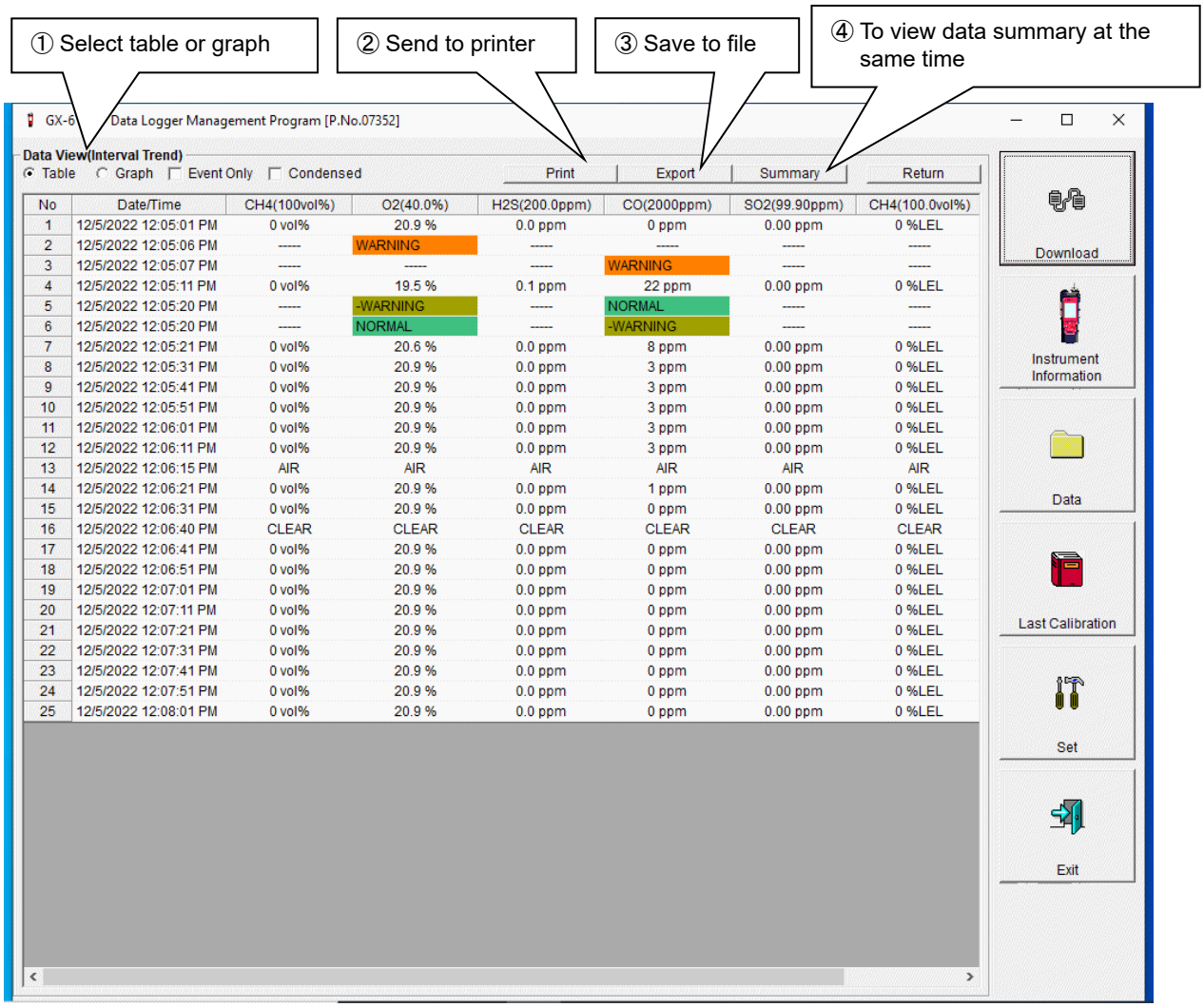
Property	Value
Name	ss02154335_----------
Sampling Date/Time	12/2/2022 3:43:35 PM
Serial No.	----------
Station ID	----------
User ID	----------
-----	-----
-----	-----
Gas(FullScale)	BNZ(100.0ppm)
Concentration	0.00 ppm

Name: Data name
Sampling Date/Time: Time recorded
Serial No./Station ID/User ID: GX-6100 main unit status
Gas(FullScale): Gas (full scale)
Concentration: Concentration recorded at time of measurement

* Click the [View Data] button to display a list of data for the same measurement time, including STEL data.

3-4. Data View screen

This screen displays data details in table and graph format.



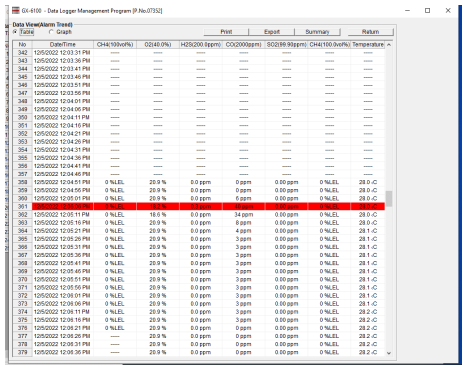
No	Date/Time	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
1	12/5/2022 12:05:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
2	12/5/2022 12:05:06 PM	-----	WARNING	-----	-----	-----	-----
3	12/5/2022 12:05:07 PM	-----	-----	-----	WARNING	-----	-----
4	12/5/2022 12:05:11 PM	0 vol%	19.5 %	0.1 ppm	22 ppm	0.00 ppm	0 %LEL
5	12/5/2022 12:05:20 PM	-----	-WARNING	-----	NORMAL	-----	-----
6	12/5/2022 12:05:20 PM	-----	NORMAL	-----	-WARNING	-----	-----
7	12/5/2022 12:05:21 PM	0 vol%	20.6 %	0.0 ppm	8 ppm	0.00 ppm	0 %LEL
8	12/5/2022 12:05:31 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
9	12/5/2022 12:05:41 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
10	12/5/2022 12:05:51 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
11	12/5/2022 12:06:01 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
12	12/5/2022 12:06:11 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
13	12/5/2022 12:06:15 PM	AIR	AIR	AIR	AIR	AIR	AIR
14	12/5/2022 12:06:21 PM	0 vol%	20.9 %	0.0 ppm	1 ppm	0.00 ppm	0 %LEL
15	12/5/2022 12:06:31 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
16	12/5/2022 12:06:40 PM	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
17	12/5/2022 12:06:41 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
18	12/5/2022 12:06:51 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
19	12/5/2022 12:07:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
20	12/5/2022 12:07:11 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
21	12/5/2022 12:07:21 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
22	12/5/2022 12:07:31 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
23	12/5/2022 12:07:41 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
24	12/5/2022 12:07:51 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
25	12/5/2022 12:08:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL

[☐ Event Only]: Displays event data only.
[☐ Condensed]: Displays only fluctuating sample data.
CAUTION: No graph will be drawn unless there are at least five samples.

The alarm trend data table highlights the locations of active alarms in red.

For [WARNING], [ALARM], and [OVER]

Separate window for [WARNING], [ALARM], and [OVER]
Click the [Return] button to exit the window.

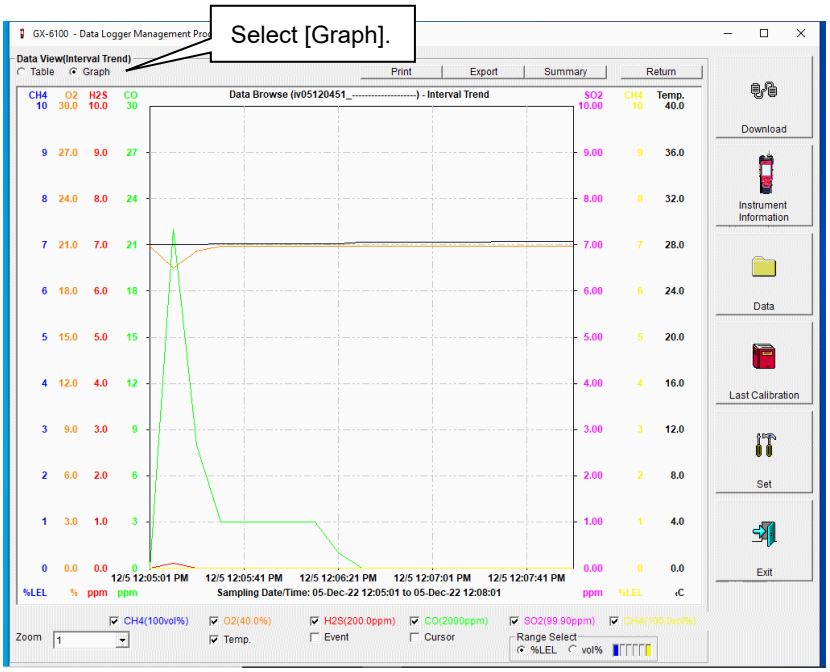


The mouse cursor will appear as follows when hovered over [WARNING], [ALARM], or [OVER] event data.
Click on the cell here to search for corresponding event data and to display the data (if any) in a separate window.

① Select table or graph

● Select graph

1. Select [Graph] of the [Table] and [Graph] radio buttons at the top left of the screen.



Various operations are available using the checkboxes and combo box at the bottom of the screen.

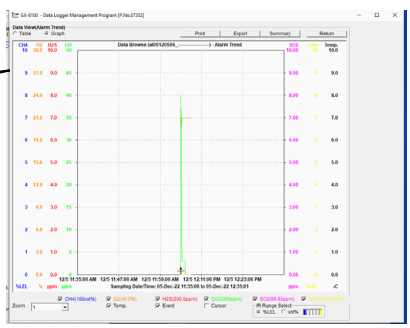
Upper checkboxes (gas names): Display or hide the corresponding gas data.
[Zoom] combo box: Specify a horizontal axis scale factor appropriate for the number of samples.
[Event] checkbox: Displays event information markers for alarms and other events.
[Cursor] checkbox: Displays the cursor on the graph.

CAUTION: The maximum value on the vertical axis of the graph is adjusted automatically based on the following formula. If the maximum value for data with no events is “x” and the full scale is 10 or greater:
Ymax = {int (x / 10) + 1} × 10, and for full scale under 10: Ymax = {int (x) + 1}
“int”: Decimal values are discarded.

CAUTION: The graph will not be drawn unless there are at least five normal concentration data samples. Data consisting only of events cannot be displayed in graph form because they do not contain concentration information.

The mouse cursor will appear as follows when hovered over [WARNING], [ALARM], or [OVER] event data. Click here to search for corresponding event data and to display the data (if any) in a separate window.

For [WARNING], [ALARM], and [OVER]



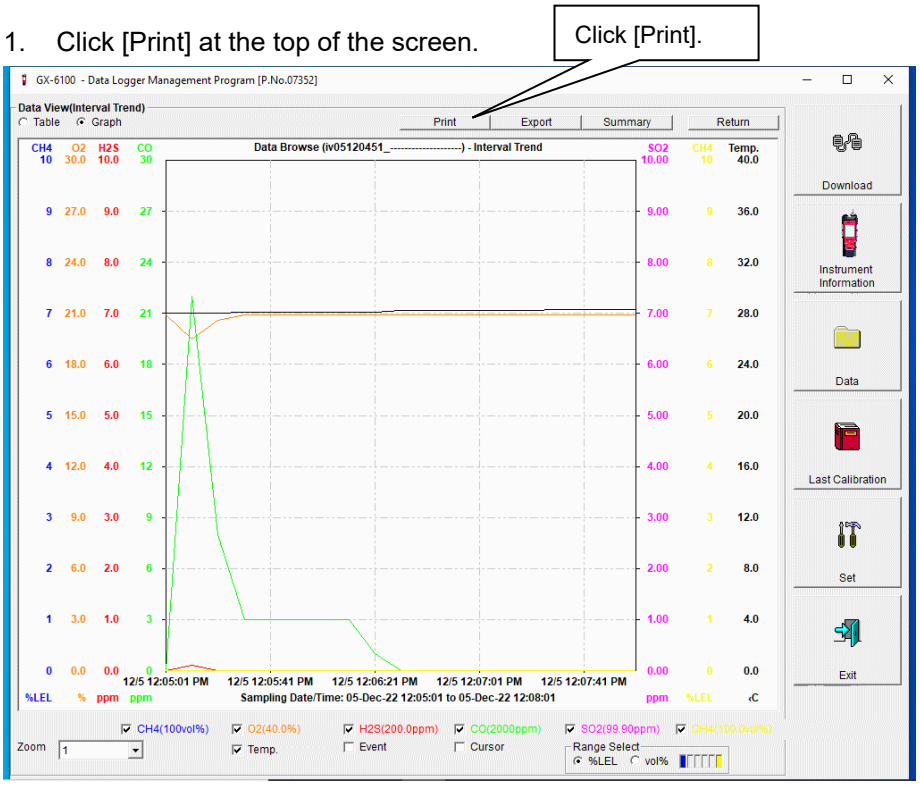
Separate window for [WARNING], [ALARM], and [OVER]
Click the [Return] button to exit the window.

② Send to printer

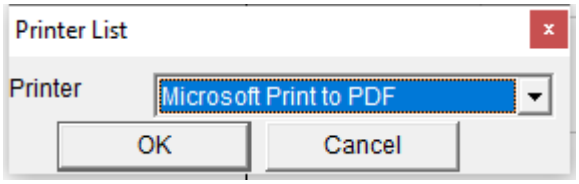
● Print

Details currently displayed on the Data View screen can be sent to the printer to be printed.

1. Click [Print] at the top of the screen.

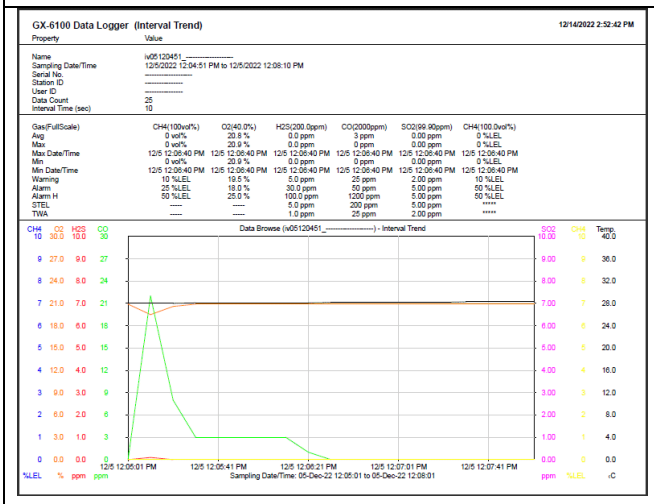


The printer selection window appears. Select the desired printer and click the [OK] button.



Click the [OK] button to begin printing.
Click the [Cancel] button to return to the Data View screen without printing.

Sample printout (graph print)



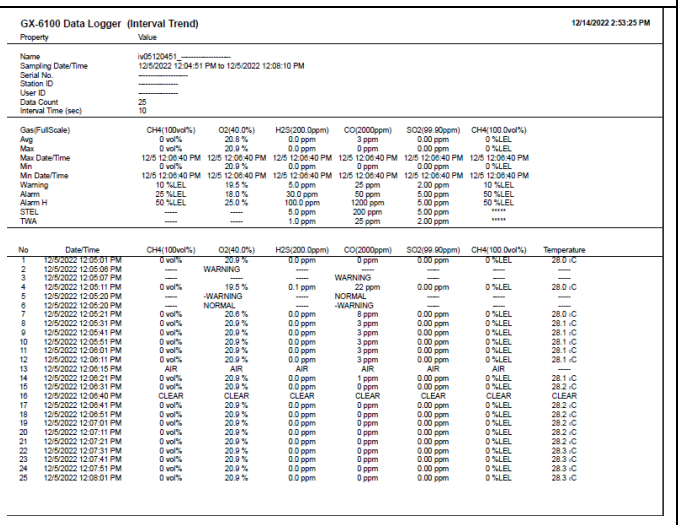
GX-6100 Data Logger (Interval Trend) 12/14/2022 2:52:42 PM

Property / Value

Name iv05120451_----------
Sampling Date/Time 12/5/2022 12:04:51 PM to 12/5/2022 12:08:10 PM
Serial No. ----------
Station ID ----------
User ID ----------
Data Count 25
Interval Time (sec) 10

Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
Avg	0 vol%	20.8 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
Max	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
Max Date/Time	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM
Min	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
Min Date/Time	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM
Warning	10 %LEL	19.5 %	5.0 ppm	25 ppm	2.00 ppm	10 %LEL
Alarm	25 %LEL	18.0 %	30.0 ppm	50 ppm	5.00 ppm	50 %LEL
Alarm H	50 %LEL	25.0 %	100.0 ppm	1200 ppm	5.00 ppm	50 %LEL
STEL	-----	-----	5.0 ppm	200 ppm	5.00 ppm	*****
TWA	-----	-----	1.0 ppm	25 ppm	2.00 ppm	*****

Sample printout (table print)



GX-6100 Data Logger (Interval Trend) 12/14/2022 2:53:25 PM

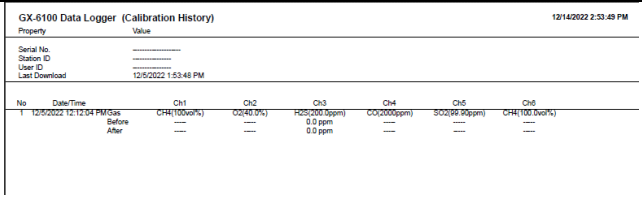
Property / Value

Name iv05120451_----------
Sampling Date/Time 12/5/2022 12:04:51 PM to 12/5/2022 12:08:10 PM
Serial No. ----------
Station ID ----------
User ID ----------
Data Count 25
Interval Time (sec) 10

Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
Avg	0 vol%	20.8 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL
Max	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
Max Date/Time	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM
Min	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL
Min Date/Time	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM	12/5 12:06:40 PM
Warning	10 %LEL	19.5 %	5.0 ppm	25 ppm	2.00 ppm	10 %LEL
Alarm	25 %LEL	18.0 %	30.0 ppm	50 ppm	5.00 ppm	50 %LEL
Alarm H	50 %LEL	25.0 %	100.0 ppm	1200 ppm	5.00 ppm	50 %LEL
STEL	-----	-----	5.0 ppm	200 ppm	5.00 ppm	*****
TWA	-----	-----	1.0 ppm	25 ppm	2.00 ppm	*****

No	Date/Time	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)	Temperature
1	12/5/2022 12:05:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.0 °C
2	12/5/2022 12:05:06 PM	-----	WARNING	-----	-----	-----	-----	-----
3	12/5/2022 12:05:07 PM	-----	-----	-----	WARNING	-----	-----	-----
4	12/5/2022 12:05:11 PM	0 vol%	19.5 %	0.1 ppm	22 ppm	0.00 ppm	0 %LEL	28.0 °C
5	12/5/2022 12:05:20 PM	-----	-WARNING	-----	NORMAL	-----	-----	-----
6	12/5/2022 12:05:20 PM	-----	NORMAL	-----	-WARNING	-----	-----	-----
7	12/5/2022 12:05:21 PM	0 vol%	20.6 %	0.0 ppm	8 ppm	0.00 ppm	0 %LEL	28.0 °C
8	12/5/2022 12:05:31 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL	28.1 °C
9	12/5/2022 12:05:41 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL	28.1 °C
10	12/5/2022 12:05:51 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL	28.1 °C
11	12/5/2022 12:06:01 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL	28.1 °C
12	12/5/2022 12:06:11 PM	0 vol%	20.9 %	0.0 ppm	3 ppm	0.00 ppm	0 %LEL	28.1 °C
13	12/5/2022 12:06:15 PM	AIR	AIR	AIR	AIR	AIR	AIR	-----
14	12/5/2022 12:06:21 PM	0 vol%	20.9 %	0.0 ppm	1 ppm	0.00 ppm	0 %LEL	28.1 °C
15	12/5/2022 12:06:31 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
16	12/5/2022 12:06:40 PM	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
17	12/5/2022 12:06:41 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
18	12/5/2022 12:06:51 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
19	12/5/2022 12:07:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
20	12/5/2022 12:07:11 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
21	12/5/2022 12:07:21 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.2 °C
22	12/5/2022 12:07:31 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.3 °C
23	12/5/2022 12:07:41 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.3 °C
24	12/5/2022 12:07:51 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.3 °C
25	12/5/2022 12:08:01 PM	0 vol%	20.9 %	0.0 ppm	0 ppm	0.00 ppm	0 %LEL	28.3 °C

Sample printout (adjustment history)



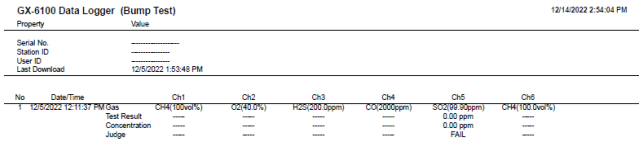
GX-6100 Data Logger (Calibration History) 12/14/2022 2:53:49 PM

Property / Value

Serial No. ----------
Station ID ----------
User ID ----------
Last Download 12/5/2022 1:53:48 PM

No	Date/Time		Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
1	12/5/2022 12:12:04 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
		Before	-----	-----	0.0 ppm	-----	-----	-----
		After	-----	-----	0.0 ppm	-----	-----	-----

Sample printout (bump tests)



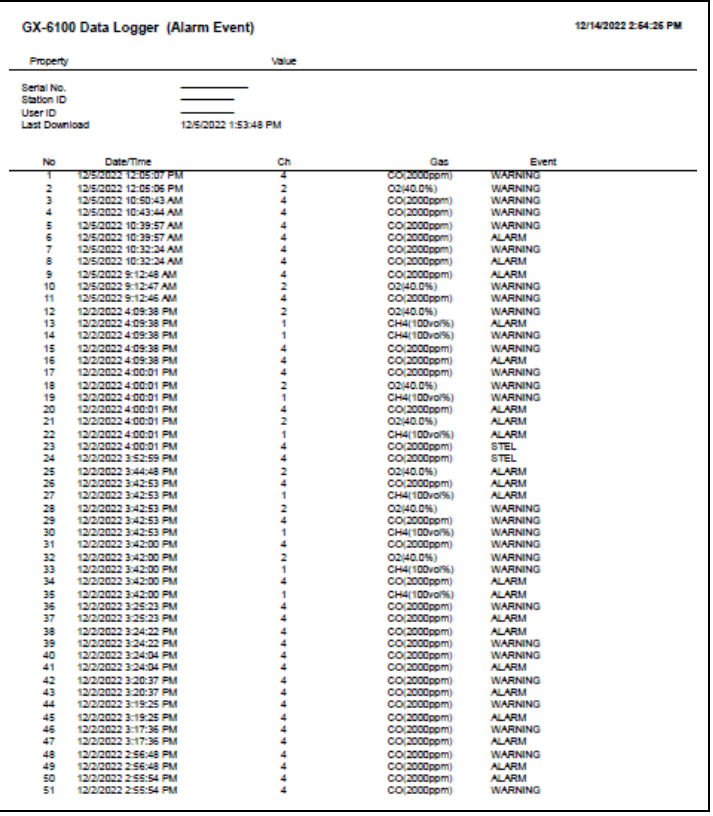
GX-6100 Data Logger (Bump Test) 12/14/2022 2:54:04 PM

Property / Value

Serial No. ----------
Station ID ----------
User ID ----------
Last Download 12/5/2022 1:53:48 PM

No	Date/Time		Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
1	12/5/2022 12:11:37 PM	Gas	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
		Test Result	-----	-----	-----	-----	0.00 ppm	-----
		Concentration	-----	-----	-----	-----	0.00 ppm	-----
		Judge	-----	-----	-----	-----	FAIL	-----

Sample printout (alarm events)



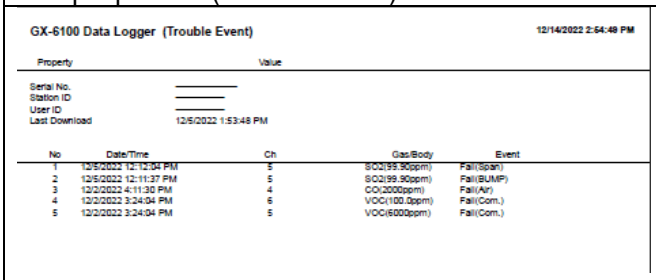
GX-6100 Data Logger (Alarm Event) 12/14/2022 2:54:26 PM

Property / Value

Serial No. ----------
Station ID ----------
User ID ----------
Last Download 12/5/2022 1:53:48 PM

No	Date/Time	Ch	Gas	Event
1	12/5/2022 12:05:07 PM	4	CO(2000ppm)	WARNING
2	12/5/2022 12:05:06 PM	2	O2(40.0%)	WARNING
3	12/5/2022 10:50:43 AM	4	CO(2000ppm)	WARNING
4	12/5/2022 10:43:44 AM	4	CO(2000ppm)	WARNING
5	12/5/2022 10:39:57 AM	4	CO(2000ppm)	WARNING
6	12/5/2022 10:39:57 AM	4	CO(2000ppm)	ALARM
7	12/5/2022 10:32:34 AM	4	CO(2000ppm)	WARNING
8	12/5/2022 10:32:34 AM	4	CO(2000ppm)	ALARM
9	12/5/2022 9:12:48 AM	4	CO(2000ppm)	ALARM
10	12/5/2022 9:12:47 AM	2	O2(40.0%)	WARNING
11	12/5/2022 9:12:46 AM	4	CO(2000ppm)	WARNING
12	12/2/2022 4:09:38 PM	2	O2(40.0%)	WARNING
13	12/2/2022 4:09:38 PM	1	CH4(100vol%)	ALARM
14	12/2/2022 4:09:38 PM	1	CH4(100vol%)	WARNING
15	12/2/2022 4:09:38 PM	4	CO(2000ppm)	WARNING
16	12/2/2022 4:09:38 PM	4	CO(2000ppm)	ALARM
17	12/2/2022 4:00:01 PM	4	CO(2000ppm)	WARNING
18	12/2/2022 4:00:01 PM	2	O2(40.0%)	WARNING
19	12/2/2022 4:00:01 PM	1	CH4(100vol%)	WARNING
20	12/2/2022 4:00:01 PM	4	CO(2000ppm)	ALARM
21	12/2/2022 4:00:01 PM	2	O2(40.0%)	ALARM
22	12/2/2022 4:00:01 PM	1	CH4(100vol%)	ALARM
23	12/2/2022 4:00:01 PM	4	CO(2000ppm)	STEL
24	12/2/2022 3:52:59 PM	4	CO(2000ppm)	STEL
25	12/2/2022 3:44:48 PM	2	O2(40.0%)	ALARM
26	12/2/2022 3:42:53 PM	4	CO(2000ppm)	ALARM
27	12/2/2022 3:42:53 PM	1	CH4(100vol%)	ALARM
28	12/2/2022 3:42:53 PM	2	O2(40.0%)	WARNING
29	12/2/2022 3:42:53 PM	4	CO(2000ppm)	WARNING
30	12/2/2022 3:42:53 PM	1	CH4(100vol%)	WARNING
31	12/2/2022 3:42:00 PM	4	CO(2000ppm)	WARNING
32	12/2/2022 3:42:00 PM	2	O2(40.0%)	WARNING
33	12/2/2022 3:42:00 PM	1	CH4(100vol%)	WARNING
34	12/2/2022 3:42:00 PM	4	CO(2000ppm)	ALARM
35	12/2/2022 3:42:00 PM	1	CH4(100vol%)	ALARM
36	12/2/2022 3:25:23 PM	4	CO(2000ppm)	WARNING
37	12/2/2022 3:25:23 PM	4	CO(2000ppm)	ALARM
38	12/2/2022 3:24:22 PM	4	CO(2000ppm)	ALARM
39	12/2/2022 3:24:22 PM	4	CO(2000ppm)	WARNING
40	12/2/2022 3:24:04 PM	4	CO(2000ppm)	WARNING
41	12/2/2022 3:24:04 PM	4	CO(2000ppm)	ALARM
42	12/2/2022 3:20:37 PM	4	CO(2000ppm)	WARNING
43	12/2/2022 3:20:37 PM	4	CO(2000ppm)	ALARM
44	12/2/2022 3:19:25 PM	4	CO(2000ppm)	WARNING
45	12/2/2022 3:19:25 PM	4	CO(2000ppm)	ALARM
46	12/2/2022 3:17:36 PM	4	CO(2000ppm)	WARNING
47	12/2/2022 3:17:36 PM	4	CO(2000ppm)	ALARM
48	12/2/2022 2:56:48 PM	4	CO(2000ppm)	WARNING
49	12/2/2022 2:56:48 PM	4	CO(2000ppm)	ALARM
50	12/2/2022 2:55:54 PM	4	CO(2000ppm)	ALARM
51	12/2/2022 2:55:54 PM	4	CO(2000ppm)	WARNING

Sample printout (trouble events)

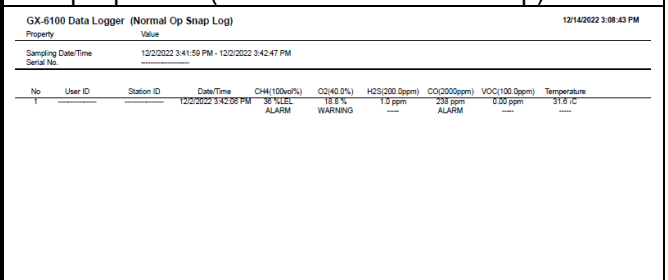


GX-6100 Data Logger (Trouble Event) 12/14/2022 2:54:48 PM

Property	Value
Serial No.	----------
Station ID	----------
User ID	----------
Last Download	12/5/2022 1:53:48 PM

No	Date/Time	Ch	Gas/Body	Event
1	12/5/2022 12:12:04 PM	5	SO2(99.90ppm)	Fail(Span)
2	12/5/2022 12:11:37 PM	5	SO2(99.90ppm)	Fail(BUMP)
3	12/2/2022 4:11:30 PM	4	CO(2000ppm)	Fail(Air)
4	12/2/2022 3:24:04 PM	6	VOC(100.0ppm)	Fail(Com.)
5	12/2/2022 3:24:04 PM	5	VOC(6000ppm)	Fail(Com.)

Sample printout (normal measurement snap)

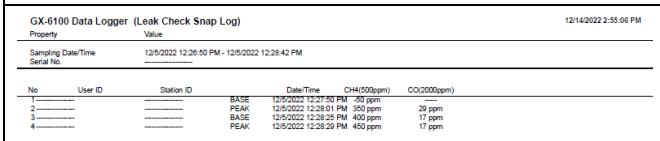


GX-6100 Data Logger (Normal Op Snap Log) 12/14/2022 3:08:43 PM

Property	Value
Sampling Date/Time	12/2/2022 3:41:59 PM - 12/2/2022 3:42:47 PM
Serial No.	----------

No	User ID	Station ID	Date/Time	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	VOC(100.0ppm)	Temperature
1	----------	----------	12/2/2022 3:42:08 PM	38 %LEL ALARM	18.8 % WARNING	1.0 ppm -----	238 ppm ALARM	0.00 ppm -----	31.6 /C -----

Sample printout (leak check snap)

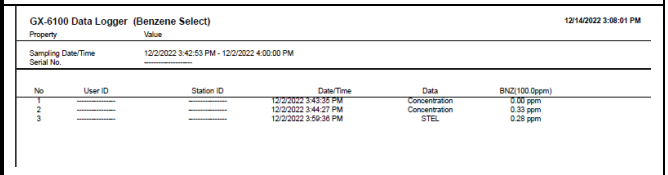


GX-6100 Data Logger (Leak Check Snap Log) 12/14/2022 2:55:06 PM

Property	Value
Sampling Date/Time	12/5/2022 12:26:50 PM - 12/5/2022 12:28:42 PM
Serial No.	----------

No	User ID	Station ID		Date/Time	CH4(500ppm)	CO(2000ppm)
1	----------	----------	BASE	12/5/2022 12:27:50 PM	-50 ppm	-----
2	----------	----------	PEAK	12/5/2022 12:28:01 PM	350 ppm	29 ppm
3	----------	----------	BASE	12/5/2022 12:28:25 PM	400 ppm	17 ppm
4	----------	----------	PEAK	12/5/2022 12:28:29 PM	450 ppm	17 ppm

Sample printout (benzene select)

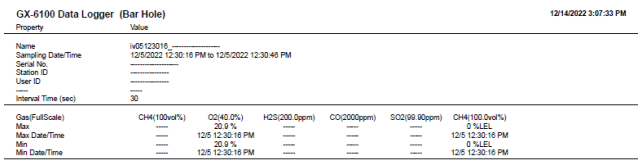


GX-6100 Data Logger (Benzene Select) 12/14/2022 3:08:01 PM

Property	Value
Sampling Date/Time	12/2/2022 3:42:53 PM - 12/2/2022 4:00:00 PM
Serial No.	----------

No	User ID	Station ID	Date/Time	Data	BNZ(100.0ppm)
1	----------	----------	12/2/2022 3:43:35 PM	Concentration	0.00 ppm
2	----------	----------	12/2/2022 3:44:27 PM	Concentration	0.33 ppm
3	----------	----------	12/2/2022 3:59:36 PM	STEL	0.28 ppm

Sample printout (bar hole)



GX-6100 Data Logger (Bar Hole) 12/14/2022 3:07:33 PM

Property	Value
Name	iv0512301 6_----------
Sampling Date/Time	12/5/2022 12:30:16 PM to 12/5/2022 12:30:46 PM
Serial No.	----------
Station ID	----------
User ID	----------
-----	-----
Interval Time (sec)	30

Gas(FullScale)	CH4(100vol%)	O2(40.0%)	H2S(200.0ppm)	CO(2000ppm)	SO2(99.90ppm)	CH4(100.0vol%)
Max	-----	20.9 %	-----	-----	-----	0 %LEL
Max Date/Time	-----	12/5 12:30:16 PM	-----	-----	-----	12/5 12:30:16 PM
Min	-----	20.9 %	-----	-----	-----	0 %LEL
Min Date/Time	-----	12/5 12:30:16 PM	-----	-----	-----	12/5 12:30:16 PM

Printer setup precautions

① The detailed printer settings vary depending on the printer used. Refer to the printer instruction manual.

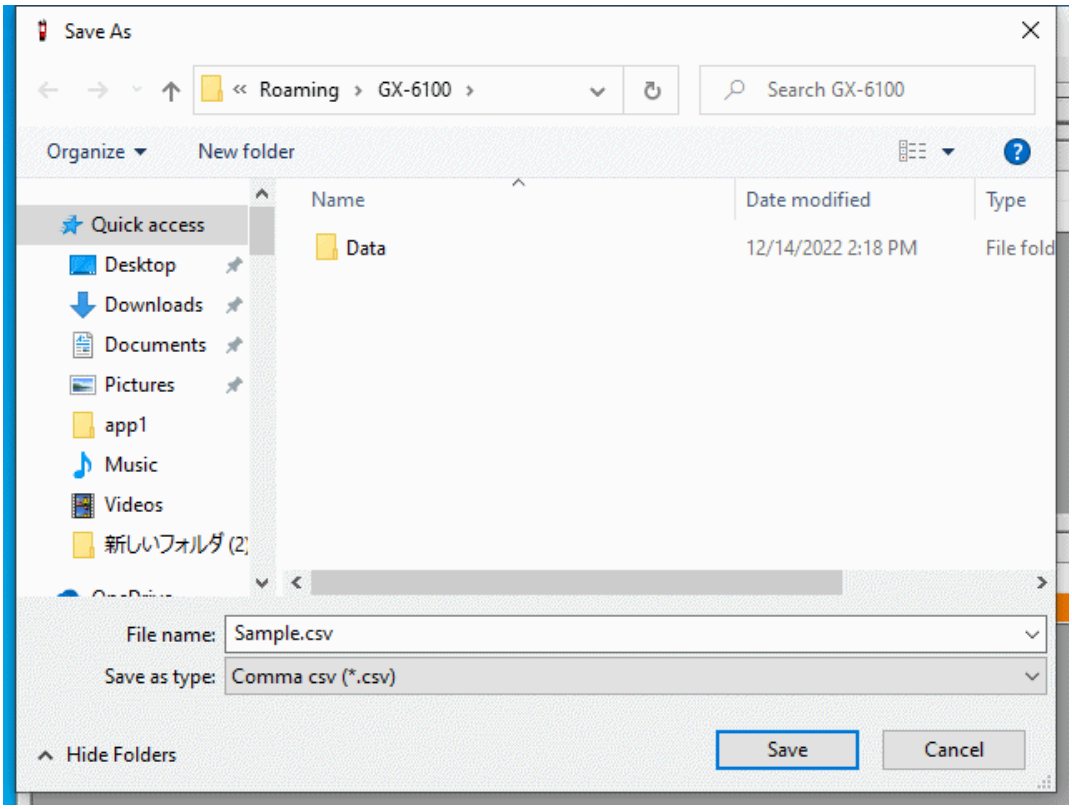
② This program does not allow the print area to be specified when printing. This means it is not possible to select and print only a certain part of the data view.

③ The setting for the number of copies can be edited only on printers that allow this.
Changes in the settings made here will also apply to other applications subsequently used. (For example, if two copies were set here, two copies may also be printed out when using other applications.) When printing from other applications after changing the printer settings for this program, check the print settings for that application before printing.

③ Save to file

● Save

1. Click the [Save] button on the screen.



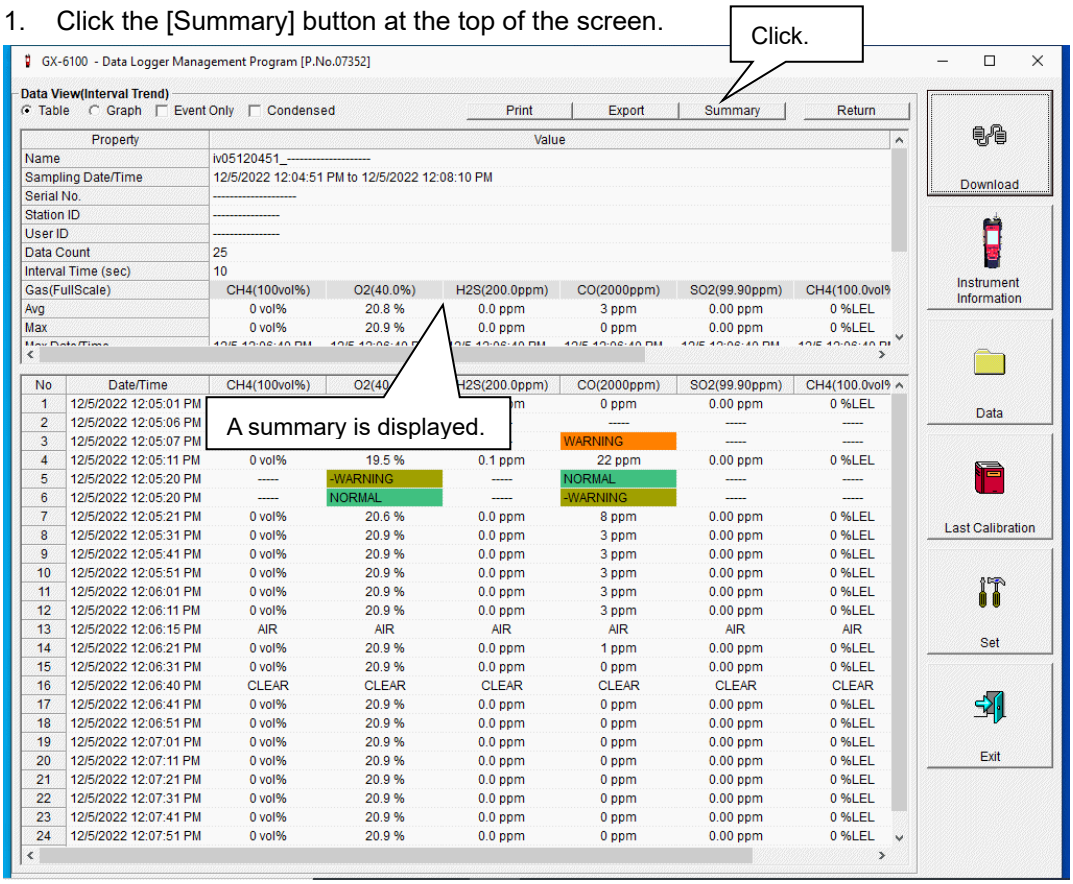
Specify the destination and file name, then click the [Save] button to save the data.
Click the [Cancel] button to cancel saving.

CAUTION: If a table is displayed, the table contents will be saved in CSV format.
If a graph is displayed, the graph will be saved as a bitmap.

④ To view data summary at the same time

● Summary display

1. Click the [Summary] button at the top of the screen.

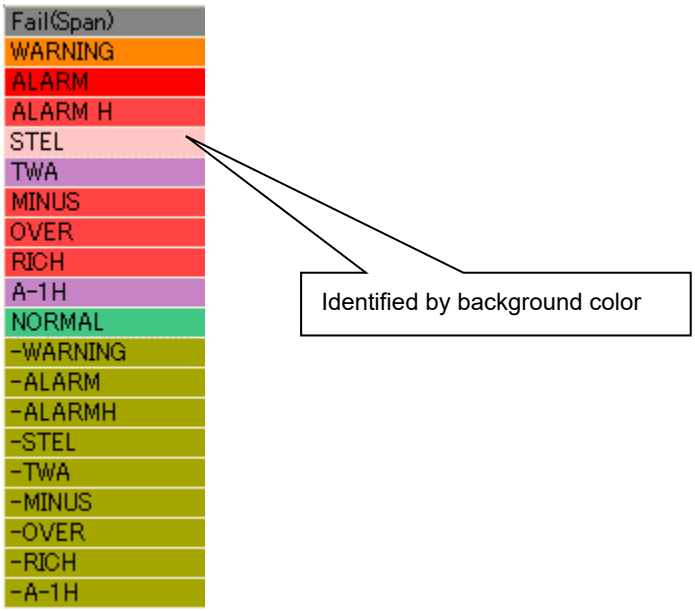


Clicking the [Summary] button while the summary is displayed hides the summary display.

⑤ Table details

● Event colors

The concentration display cells for each gas in the table have different colored backgrounds based on the type of event that occurred.



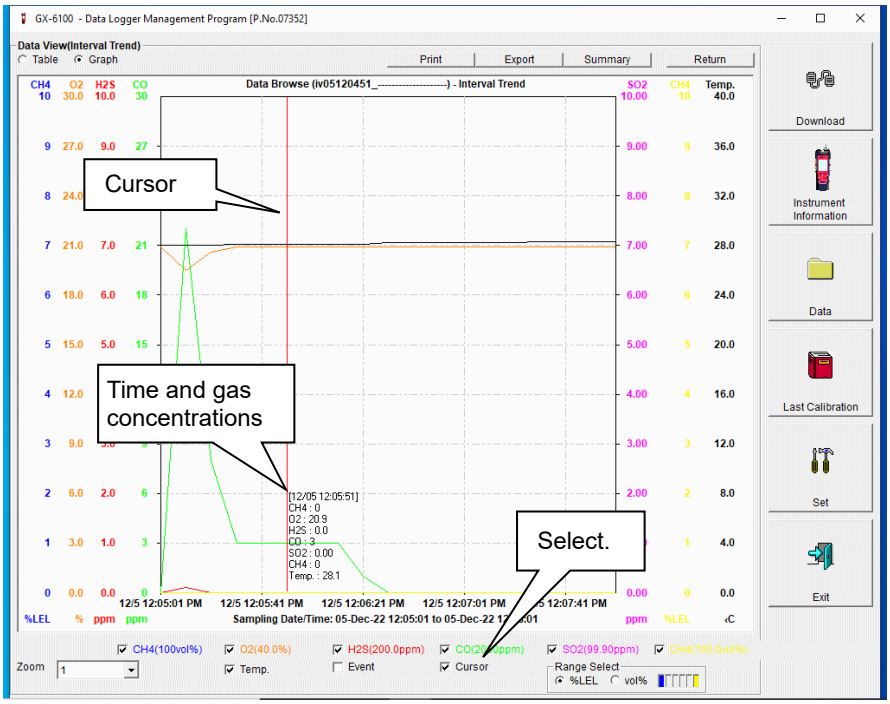
[Fail]:	Gray	Trouble
[WARNING]:	Orange	1st alarm
[ALARM]:	Red:	2nd alarm
[ALARM H]:	Bright red	3rd alarm
[STEL]:	Pink	STEL alarm
[TWA]:	Bright purple	TWA alarm
[MINUS]:	Bright red	Minus-scale over
[OVER]:	Bright red	Full-scale over
[RICH]:	Bright red	Full-scale over

[NORMAL]:	Green	Restored
[-xxx]:	Dark green	Restored from above statuses

⑥ Graph details

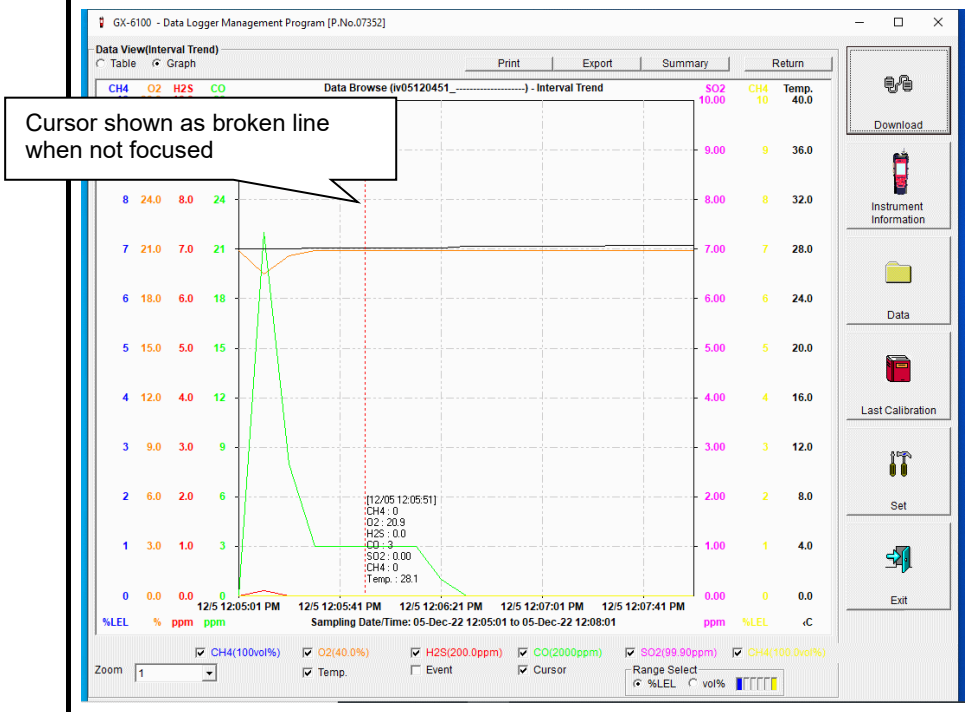
● Cursor

1. Select the [Cursor] checkbox to display the cursor on the graph.



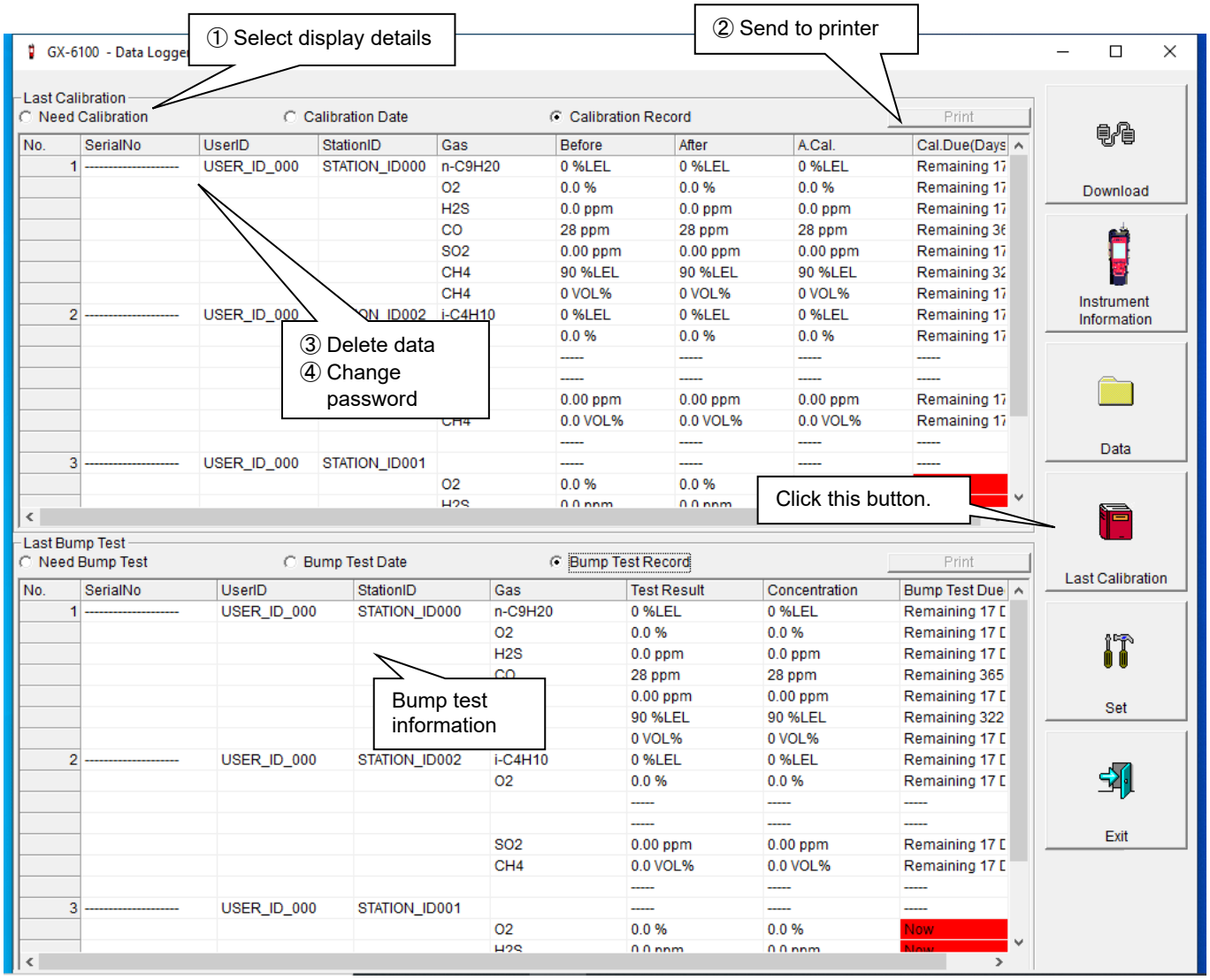
Use the ← and → keys to move the cursor left and right. Use the ↑ and ↓ keys to move the time and concentration display up and down.
Hold down the Shift key at the same time for faster cursor/display movement.

CAUTION: The cursor cannot be moved if a window for another program is opened and the focus is not currently on the graph area. In this case, the cursor appears as a broken line. To return the focus, click anywhere within the graph area.



3-5. Last Calibration screen

Use this screen to check the adjustment expiration of previously downloaded main unit data. The screen allows checking in the same way for bump tests.

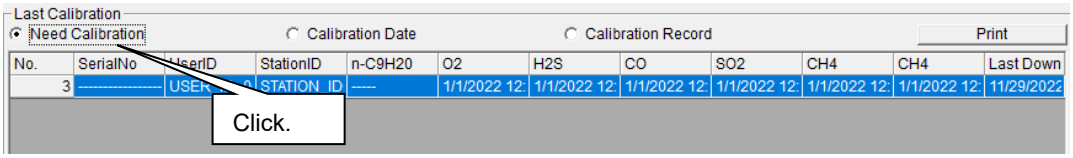


CAUTION: The table details are view-only and cannot be edited.

① Select display details

● Expired data

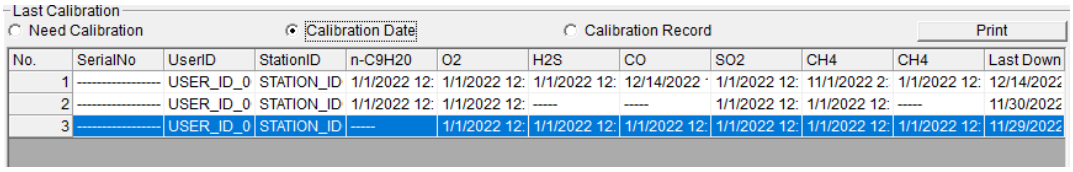
1. Click the [Need Calibration] radio button.



Displays adjustment data for previously connected GX-6100 main units (for which device information data has been downloaded) that have expired.

● List display

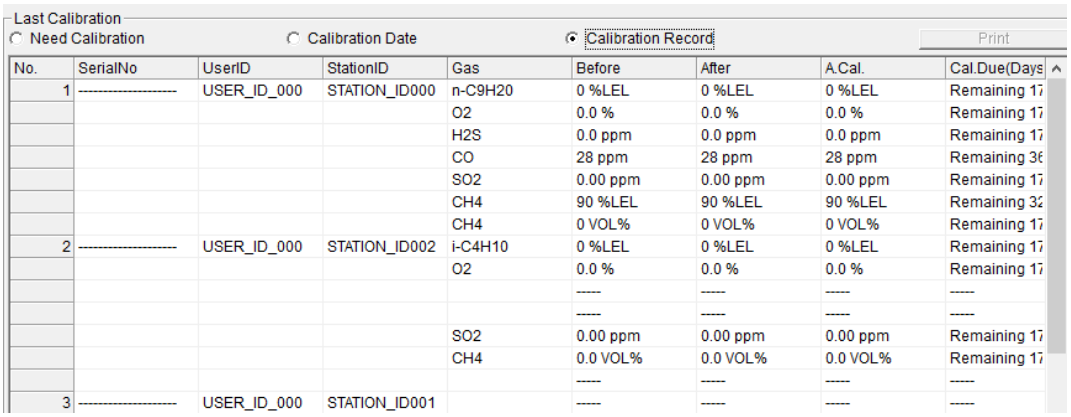
1. Click the [Calibration Date] radio button.



Lists data for previously connected GX-6100 main units.
(Only the most recent data is listed for units with the same serial number, user ID, and station ID.)

● Detailed display

1. Click the [Calibration Record] radio button.



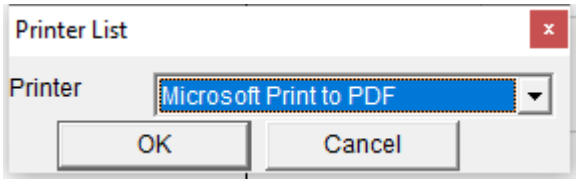
Displays data for previously connected GX-6100 main units in the same format as the Instrument Information screen.

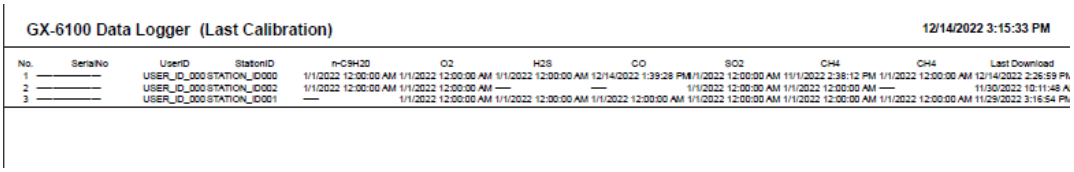
For more information on display contents, refer to '③ Adjustment history information' in '3-2. Instrument Information screen'.

② Send to printer

● Print

The most recent adjustment dates can be printed after selecting the [Need Calibration] or [Calibration Date] radio button.
The printer selection window appears. Select the desired printer and click the [OK] button.



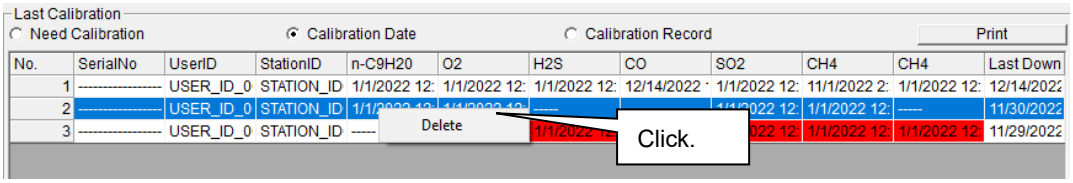

GX-6100 Data Logger (Last Calibration) 12/14/2022 3:15:33 PM

No.	SerialNo	UserID	StationID	n-C9H20	O2	H2S	CO	SO2	CH4	CH4	Last Download
1	————	USER_ID_000	STATION_ID000	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	12/14/2022 1:39:28 PM	1/1/2022 12:00:00 AM	1/1/2022 2:38:12 PM	1/1/2022 12:00:00 AM	12/14/2022 2:26:59 PM
2	————	USER_ID_000	STATION_ID002	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	——	——	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	——	11/30/2022 10:11:48 A
3	————	USER_ID_000	STATION_ID001	——	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	1/1/2022 12:00:00 AM	11/29/2022 3:16:54 PM

③ Delete data

● Delete

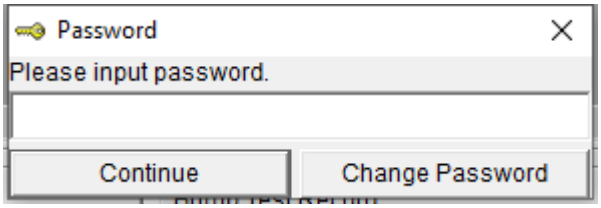
1. Right-click on the data to delete.



CAUTION: Data can be deleted only when [Need Calibration] or [Calibration Date] is selected on the screen.
Data cannot be deleted when [Calibration Record] is selected.

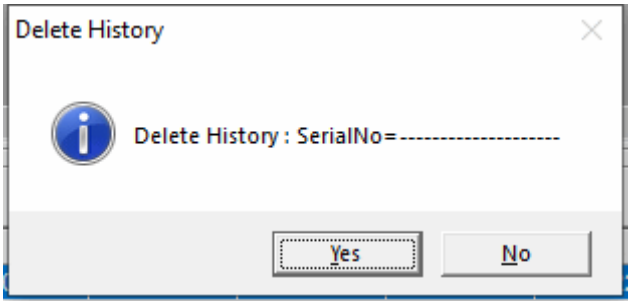
● Password input

1. Clicking the [Delete] button displays a password dialog. Enter the password, then click the [Continue] button.



CAUTION: Clicking [Continue] without entering a password will cancel deletion.

2. The following dialog will appear when you enter the correct password and click the [Continue] button:



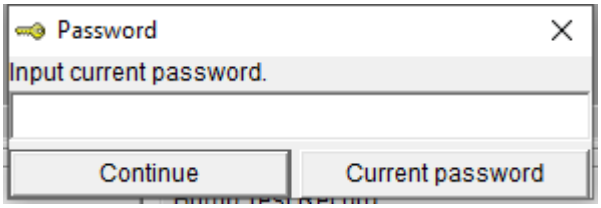
Click the [Yes] button to delete the data.
Click the [No] button to cancel data deletion.

CAUTION: The default password immediately after installation is “Riken” (not case-sensitive). For instructions on how to change the password, refer to ‘④ Change password’ in ‘3-5. Last Calibration screen’.

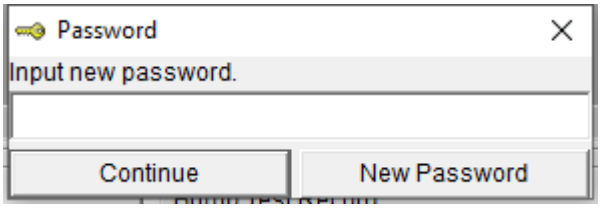
④ Change password

● Password input

1. Open the password dialog in the same way as for data deletion, then click the [Change Password] button.

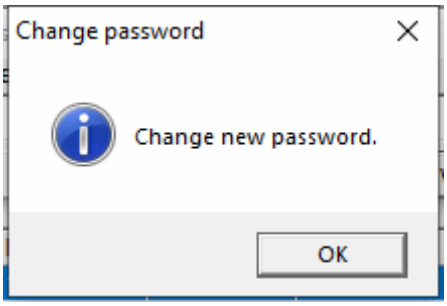


2. Enter the correct password, then click the [Current password] button. The following dialog appears:



3. Enter the new password here, then click the [New Password] button.

4. The password dialog will appear once again. Enter the same (new) password, then click the [New Password] button.

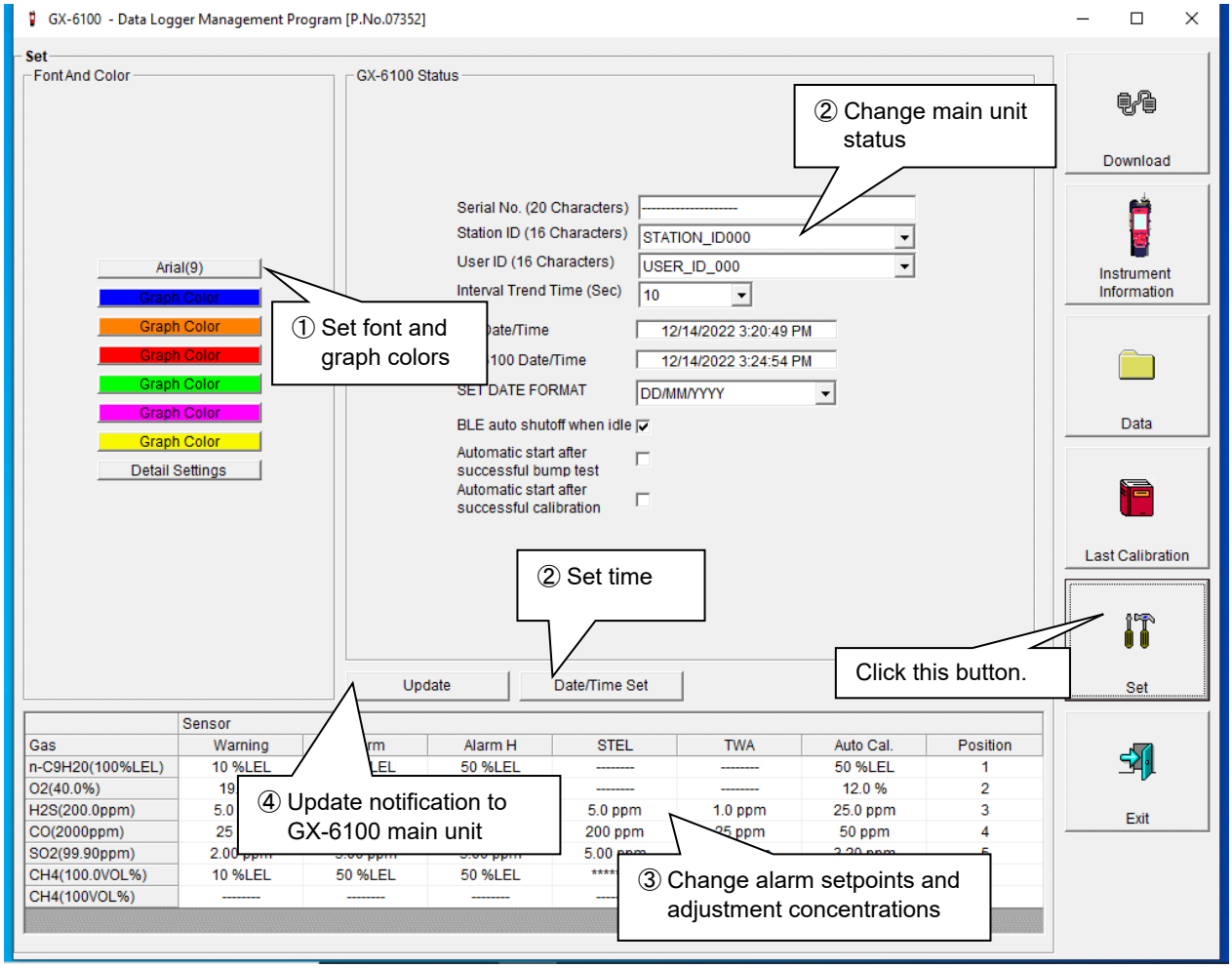


Click [OK] to update to the new password.

CAUTION: The default password immediately after installation is “Riken” (not case-sensitive).

3-6. Set screen

This screen is used to configure screen display settings and main unit status settings.



CAUTION: Data that has been set or changed must be sent to the GX-6100 main unit by clicking the [Update] button.

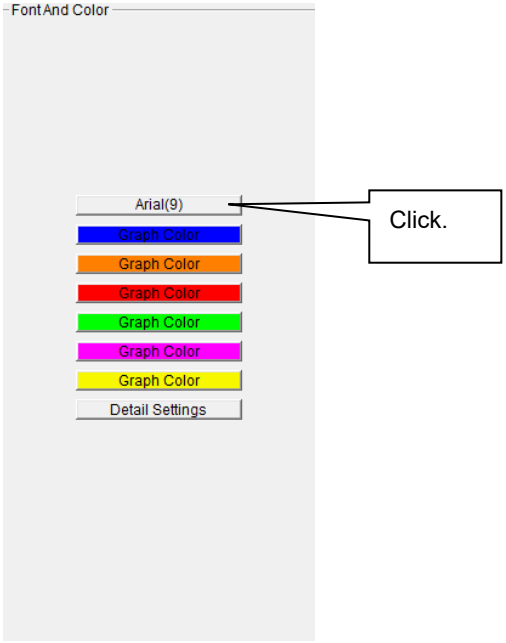
CAUTION: Font settings will be applied from the next time the program is started.

CAUTION: [BLE auto shutoff when idle] is displayed only when the BLE function is enabled.

① Change font and graph colors

● Change font

1. Click the font display area.



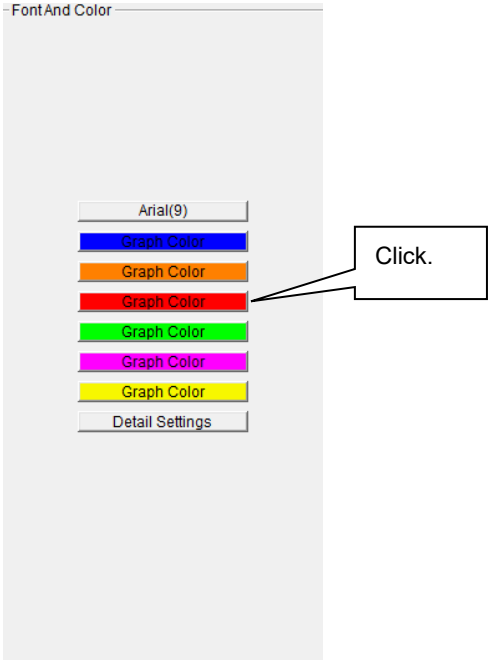
Set the desired font in the font setting dialog that appears.

CAUTION: The screen display may be hard to read if you use an excessively large font.
Changes made here will be applied from the next time the program is started.

● Change graph colors

The display colors for each gas on the graph can be changed.

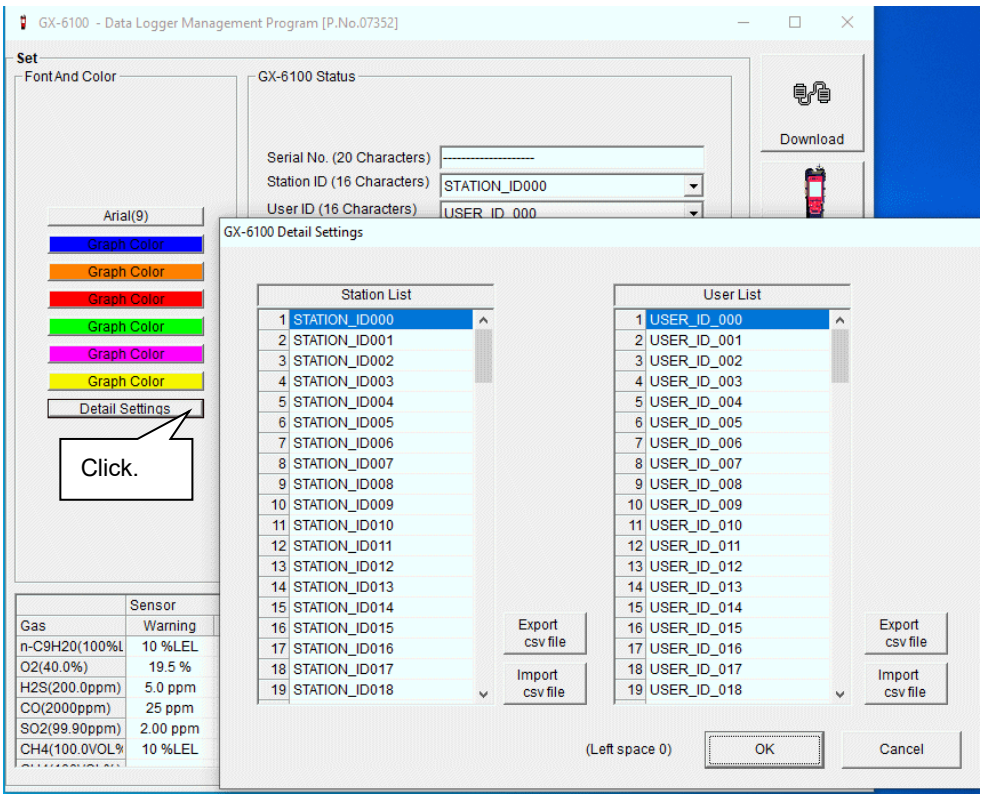
1. Click the area for a gas.



Select the desired color in the color selection dialog that appears.

● Edit station/user lists

1. Edit the station ID and user ID lists.
Click [Detail Settings].

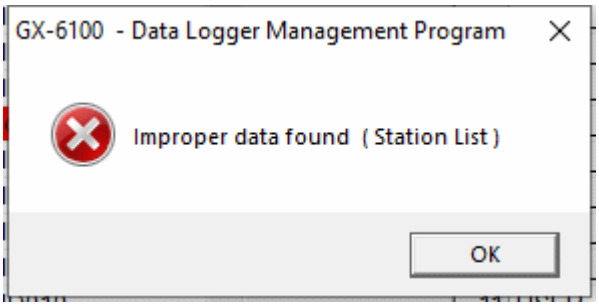


An edit dialog appears. The station list can contain up to 128 entries.
Up to 16 alphanumerical characters can be used, including the space, hyphen, and slash symbols (all single-byte characters).

[Export csv file]: Outputs to a file. Creates a text file containing the number and data entries.

[Import csv file]: Imports from a text file containing number and data entries. The background color will be red for entries with unsupported characters or too many characters.

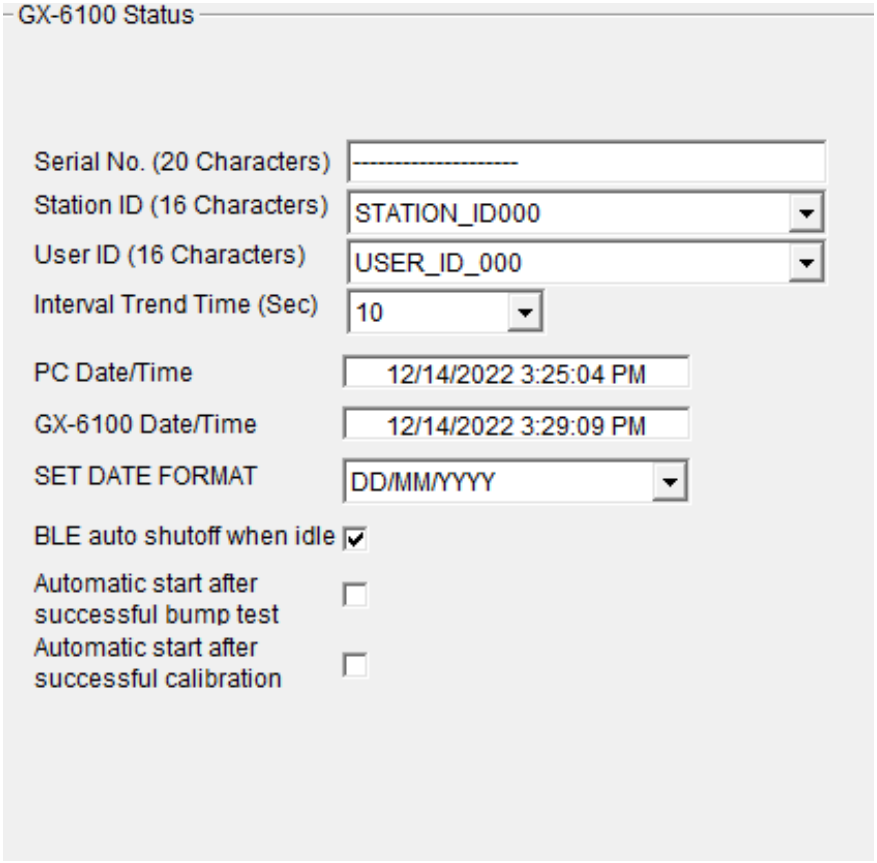
* [OK] cannot be executed if there are entries with a red background.



② Change main unit status

● Edit

1. Edit data in the status area as required.



Details indicated for [Serial No.], [Station ID], and [User ID] can be edited provided they do not exceed 16 characters in length.
[Interval Trend Time (Sec)] can be changed by selecting from the pull-down list.
Click the [Date/Time Set] button to synchronize the PC time ([PC Date/Time]) with the GX-6100 main unit internal clock ([GX-6100 Date/Time]).

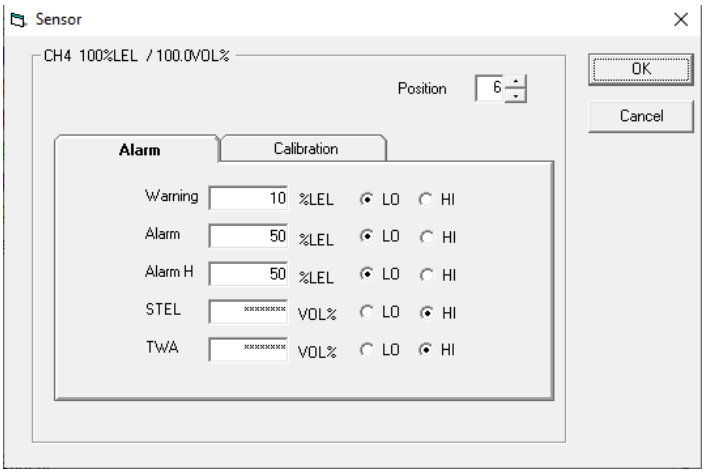
CAUTION: Dates and times cannot be entered directly into the date/time boxes.
CAUTION: Apart from clock setting, changing the status data here alone will not update the same data in the GX-6100 main unit.
Be sure to click [Update] to update (send) the changes to the main unit.

[BLE auto shutoff when idle]: Displayed only when the BLE function is enabled. Connection processing is disabled when BLE connection is not possible.
[Automatic start after successful bump test]/[Automatic start after successful calibration]: Automatically enters measurement mode once the corresponding processing is successful.

③ Change alarm setpoints and adjustment concentrations

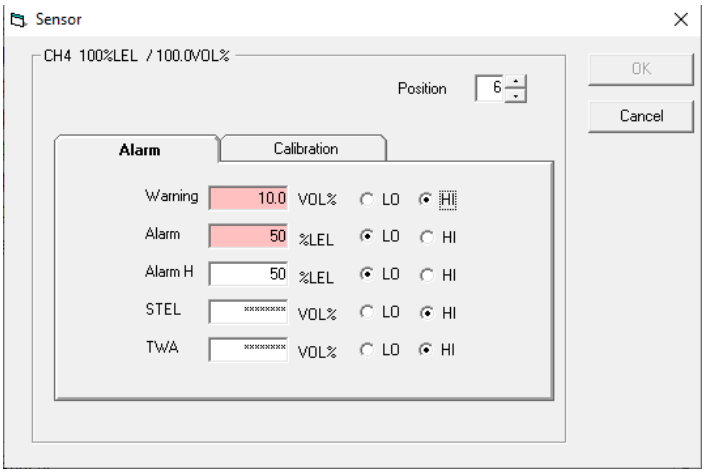
● Call up edit screen

1. Click the sensor row to be changed to display the edit screen.



[Position] is the number indicated on the GX-6100 main unit. Edit this number to avoid duplicating sensors.
The [LO]/[HI] selection is displayed if the sensor has a double range.

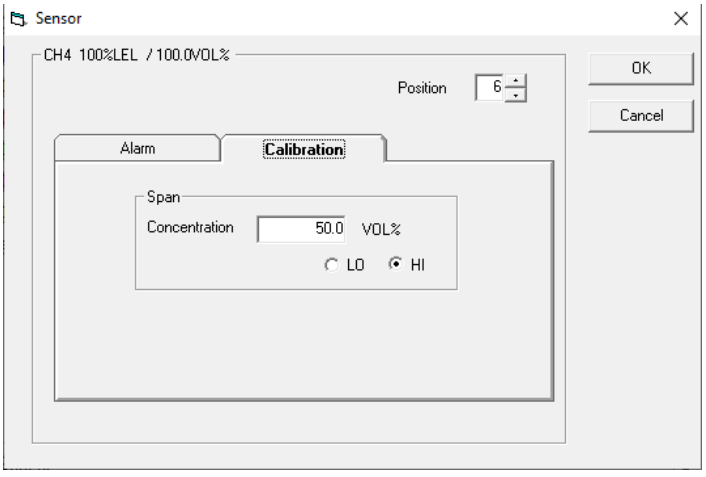
● Edit alarm setpoints



If the magnitude relationship between the warning and alarm setpoint values is inappropriate for the [LO]/[HI] or alarm type selection, the values are displayed with a pink background and the [OK] button is disabled.

● Edit adjustment concentrations

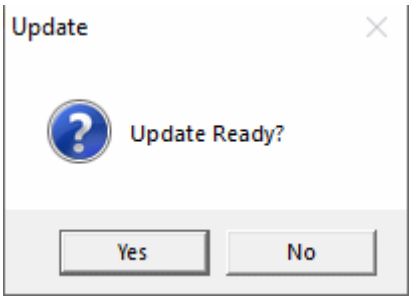
Edit the values on the [Calibration] tab.



④ Update notification to GX-6100 main unit

● Update notification

1. Click the [Update] button after making changes.



Click the [Yes] button to send the changes to the GX-6100 main unit to be stored.
Click the [No] button to cancel update notification.

CAUTION: Details cannot be restored once they have been changed. If update notification has not yet been made, you can restore the main unit information by clicking the [Instrument Information] button on the Download screen to download the device information data.

4. Data Maintenance

Depending on how the program is used—for example, if data is read in several times a day—this may increase both data volumes and data management burdens. Unforeseen problems with the PC may also lead to loss of valuable data.
We recommend backing up data periodically to protect against such data management problems.

4-1. Data storage configuration details

Data is contained within the folder indicated in the work folder field within the shortcut properties for the installed GX-6100 program.
(C:¥Users¥Login name¥AppData¥Roaming¥GX-6100)

1) File name: GX-6100.mdb
   File type: Microsoft Jet 3.6 database file

2) Folder name: Data
   File type: Individual event data files (within each year and month folder)

4-2. Backing up

Although it depends on the usage pattern, we recommend copying data to a separate hard disk drive or external auxiliary storage device (for example, CD-R).
When restoring data, specify the location of the relevant folder as that indicated in the work folder field as described above so that the data can be viewed.

5. Usage Precautions

Note the following precautions when using this program:

① Confirm that the GX-6100 is in a suitable location for receiving data. Normal communication is not possible if it is not in a suitable location.

② Avoid using similar functions on other applications at the same time when data is being received.

③ Do not forcibly shut down this program. (e.g. using the Ctrl + Alt + Del operation). The program shutdown processing saves configuration parameters for the next time the program starts. Force-quitting the program may cause problems the next time the program starts.

④ Do not directly modify or overwrite data files.

6. Troubleshooting

Symptom	Cause	Corrective action
Communication is not possible.	The main unit is not in a suitable location. Obstacles are in the way.	Confirm that it is correctly connected.
	Other devices using infrared are present.	Turn off the other devices or take other measures to prevent interference.
	The COM port is not recognized. *1	Install the correct driver.
	The driver is out of date.	Install the latest driver version.

*1 Normally recognized as Silicon Labs CP210x USB to UART Bridge (COM No.)

If the problems persist even after taking the action described above, please contact RIKEN KEIKI.

7. File Organization

Details of the files present when the program is installed and the files present during operation are provided below.

7-1. Current directory immediately after installation

File name	Details
GX-6100.exe	GX-6100 program body
RKComm2.ocx	Communication component
Filemove.avi	Animation file used during data reception
RkIrDA11.ocx	Infrared communication component

7-2. Current directory during operation

File name	Details
GX-6100.ini	GX-6100 initial setup file
GX6100.dat	Data downloading file
GX-6100.mdb	Database file (Microsoft Jet 3.6 database)
Data	Directory for saving event data files
Seriallog.log	Record of communication port details since the program was started (for investigation/maintenance use)

CAUTION: The files and subdirectories in the current directory during operation are created after the program is started.

8. Software Function Specifications

Product name (Program name)	GX-6100 Data Logger Management Program
Product model	SW-GX-6100
Executable file name	GX-6100.exe
Compatible operating systems	Microsoft Corporation Windows 10 Windows 11
Program size	Main unit approx. 4.8 MB, library approx. 5.2 MB (Uses up to 42 MB of hard disk space during installation.)
Communication conditions	Serial interface (USB to UART) (IrDACOM adapter) Baud rate: 921,600 bps Data bits: 8 bits Stop bit: 1 bit Parity: None
Transmission time	Max. approx. 4 minutes (for maximum number of data samples and standard communication settings)
Medium	CD-ROM ×1
Package contents	Operating manual (this document) Product warranty registration card User license agreement

Revision history

Issue	Revision	Issue date
0	First issue	June 16, 2025