

Portable Gas Monitor

GX-3R

Data Logger Management Program

SW-GX-3R(EX)

Operating Manual

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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 manual.

This operating manual omits descriptions of basic operations like command selection and dialog box settings for Microsoft Windows 7, Windows 8, and Windows 10. If you are using Windows for the first time, read the Windows manual and familiarize yourself with basic Windows operations before proceeding.

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-3R 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 displayed 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 pinpoint which devices need calibration.
- · Simplifies the management of multiple devices.

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2. Installing and Uninstalling

2-1. Operating environment precautions

This program is compatible with Microsoft Windows 7, Microsoft Windows 8, and Microsoft Windows 10. The program is not compatible with other operating systems.

This program requires up to approximately 40 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

Load the CD-ROM into a tray-loading CD-ROM drive.

CD-ROM storage
 Do not store in locations subject to direct sunlight or high temperatures and humidity.

 CD-ROM drive type
 Do not insert in slot-loading CD-ROM drives.
 The label on the CD-ROM may prevent the CD-ROM from ejecting properly.

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 file "setup.exe".

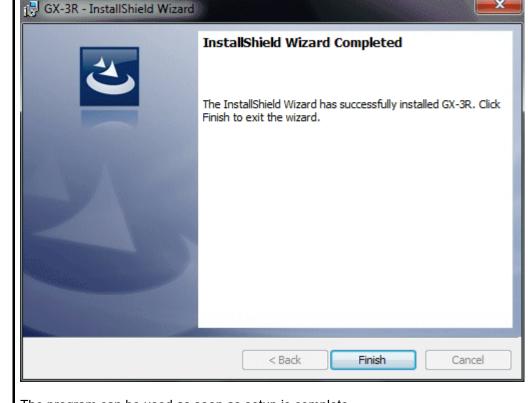
2-3. Installation procedure

Launch setup	The following screen will appear after the CD-ROM is inserted or setup.exe is launched.		
•	GX-3R - InstallShield Wizard		
	Welcome to the InstallShield Wizard for GX-3R		
	The InstallShield(R) Wizard will install GX-3R on your computer. To continue, click Next.		
	WARNING: This program is protected by copyright law and international treaties.		
	< Back Next > Cancel		
	Click the "Next" button.		
 Accept license agreement 	The following screen will appear:		
	License Agreement Please read the following license agreement carefully.		
	RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT PLEASE READ THIS SOFTWARE LICENSE AGREEMENT "LICENSE" CAREFULLY BEFORE USING THE SOFTWARE. BY USING THE SOFTWARE YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, DO NOT USE THE RIKEN KEIKI SOFTWARE AND (IF APPLICABLE) RETURN THE SOFTWARE TO THE PUVCHASE LOCATION.		
	I accept the terms in the license agreement Print I do not accept the terms in the license agreement		
	InstallShield		
	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:
	😸 GX-3R - InstallShield Wizard
	Customer Information Please enter your information.
	User Name:
	Organization:
	InstallShield
	Click the "Next" button.
 Destination folder 	GX-3R - InstallShield Wizard
loidei	Destination Folder
	Click Next to install to this folder, or click Change to install to a different folder.
	Install GX-3R to: C:\Program Files\GX-3R \ Change
	InstallShield
	< Back Next > Cancel
	Click the "Next" button.



	X
GX-3R - InstallShield Wizard Ready to Install the Program The wizard is ready to begin installation.	5
If you want to review or change any of your installation settings, click Back. Click Cancel exit the wizard.	to
Current Settings:	_
Setup Type:	
Typical	
Destination Folder:	
C:\Program Files\GX-3R\	
User Information:	
Name: test	
Company:	
InstallShield — < Back Install Cance	el
Click the "Install" button to begin installing.	
The following screen will appear once setup is complete:	
GX-3R - InstallShield Wizard	x
InstallShield Wizard Completed	
The InstallShield Wizard has successfully installed GX-3R. Finish to exit the wizard.	Click



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

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. One such file is the "GX3R.mdb" database file. If you wish to save past data, save this file to another location before deleting the folder.

CAUTION

Precautions for installing on Microsoft Windows 7, Microsoft Windows 8, and Microsoft Windows 10

This software requires libraries for various drivers for the Windows system. Installing the software automatically initiates the processing required to incorporate these libraries.

However, if you are using Microsoft Windows 7, Microsoft Windows 8, or Microsoft Windows 10, you will be asked to install system libraries with administrator privileges.

Follow the instructions displayed to log in as an administrator and install the system libraries.

You will then be asked to restart Windows. When Windows restarts, log in once again as a general user, then install the application.

(Installing the libraries and application involves simply launching setup.exe on the CD-ROM. Administrator privileges are required only if the necessary libraries are not present in the system folder.)

Using with a network connection

Check the following before installing on a PC running Microsoft Windows 7, Microsoft Windows 8, or Microsoft Windows 10 and connected to a network.

IrDA communication uses certain TCP/IP-based technology (communication technology used in the Internet, etc.) and uses a special communication group and IP address.

For this reason, communications may be blocked in certain cases by strong Internet security software.

Where possible, run the software on a PC not connected to a network.

If use on a PC connected to a network is unavoidable, carefully assess the security settings before use.

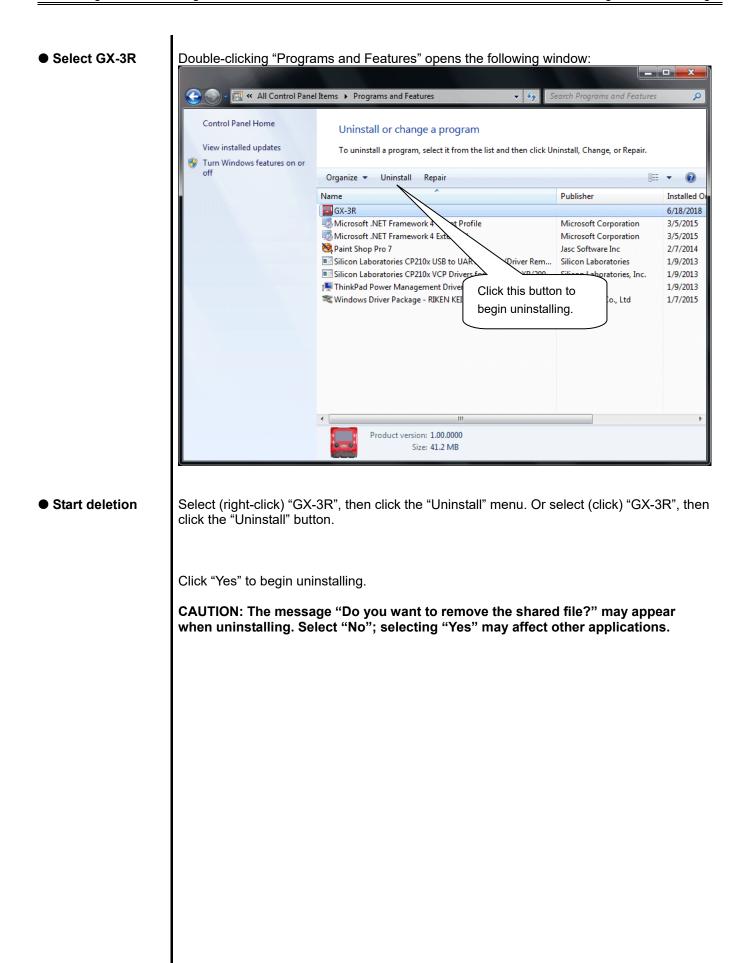
2-4. Uninstallation procedure

• Startup

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

Control Panel (example)		
Control Panel + All Con	trol Panel Items 🕨 🔫	Search Control Panel
Adjust your computer's settings		View by: Large icons 🔻
Internet Options	Keyboard	Location and Other Sensors
I Mouse	Network and Sharing Center	Notification Area Icons
Parental Controls	Performance Information and Tools	Versonalization
Phone and Modem	Power Options	Programs and Features
Recovery	Region and Language	R noteApp and Desktop Co ections
Sound	Speech Recognition	Syna ter
👰 System	Taskbar and Start Menu	
Ser Accounts	Windows CardSpace	Windows Derender
Windows Firewall	iiidows Mobility Center	🦉 Windows Update 🗸

Double-click to open "Programs and Features" in the Control Panel.

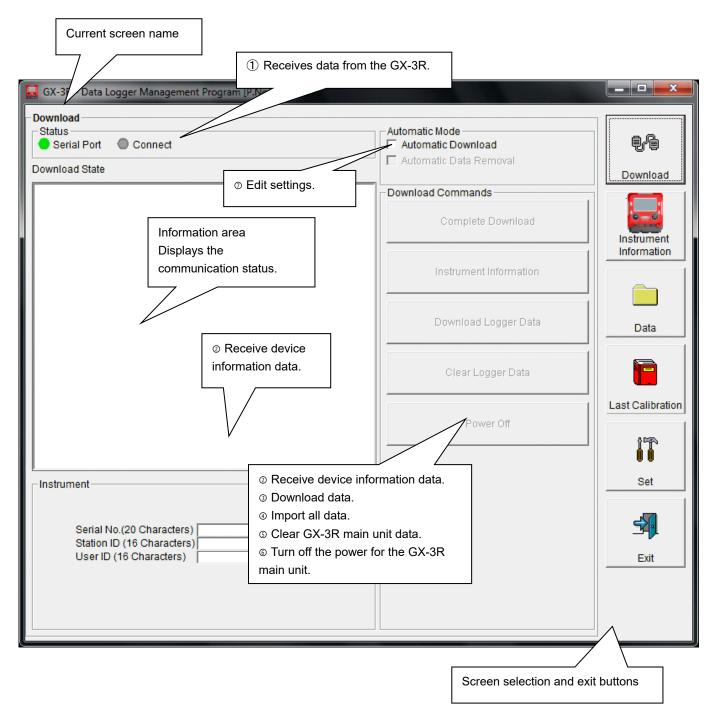


3. Operating procedures

Start the program by clicking the "GX-3R" 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, place the GX-3R in a suitable location, start this program, and power on the main unit. The program will automatically determine whether data communication is possible; if so, it will enter reception standby mode.

Receiving data from the GX-3R

The LC	Ie with the power alro D on the GX-3R will a nay be somewhat diffic	ppear as showr		IrDA
`	ons of the GX-3R LCD.			■ TRANSMIT
The info	ormation area displays	the following in	nformation:	
Constanting	- Data Logger Management Program			
Downloa	ld			
Seria	al Port 🛛 🔴 Connect		Automatic Mode	
Download			📃 🗖 Automatic Data Remova	
	.Connection Successful.		Download Commands	Downlo
GA-SIX			Download Commands	
			Complete Down	
				Instrum
	Indicates connec		Instrument Inform	nation
	the main unit.			
			Download Logge	r Data
				Data
			Olean Lannan 5	iata
			Clear Logger E	
				Last Calib
		The "Complet	e Download", "Instrume	
			and "Power Off" buttons	
Instrum	ient	enabled.		
	Serial No.(20 Characters) Station ID (16 Characters)			-4
	User ID (16 Characters)			Exit
	A 1 1			
CAUTIO		-formation and	a differ from these a	
	letails shown in the ir -3R main unit and ch			• •
	sary before turning o			
	ary soloro turning of		loo ugunn	
1100033	atus" area changes to	indicate comm	unication is possible.	
The "St	s			
The "St				
The "Status	s rial Port 🛛 🔴 Connect			
The "Status Status Serial F	s rial Port 🛛 🔴 Connect Port:	-		
The "Status Status Serial F Corr	s	Green	The PC port is ava	ilable for use.
The "St Status Serial F Com Com	s rial Port Oconnect Port: nmunication possible: nmunication not possib		The PC port is ava	ilable for use.
The "St Status Serial F Com Connect	s rial Port Connect Port: nmunication possible: nmunication not possib ct:	ole: Red	The PC port is ava	ilable for use.
The "Status Status Serial F Com Connec Stan	s rial Port Oconnect Port: nmunication possible: nmunication not possib		The PC port is ava	ilable for use.

Receiving device information data

eceive device nformation	First, click the "Instrument Information" button to receive device information data.
	Now Downloading
	An animated display will appear while data is being received.
	Once the "Instrument Information" data has been received, the details shown in the "Instrument" area will be updated and the "Download Logger Data" and "Clear Logger I buttons enabled.
	Serial No.(20 Characters) Updated to show Station ID (16 Characters) S ID 001 User ID (16 Characters) U ID 001 GX-3R main unit
	Download Commands
	Complete Download
	Instrument Information Instrument Information The "Download Logger Data" and "Clear Logger Data" buttons are enabled.
	Download Logger Data
	Clear Logger Data
	Power Off

③ Downloading 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.		
GX-3R - Data Logger Management Program [P.No.*****]		_ D _X
Download Status Serial Port Connect	Automatic Mode Automatic Download Automatic Data Removal	0,0
Download State		Download
GX-3RConnection Successful. GX-3R Instrument Information Download. GX-3R Instrument Information Download Complete.	Download Commands Complete Download	Instrument
	Instrument Information	
Click	Download Logger Data	Data
	Clear Logger Data	
	Power Off	Last Calibration
Instrument		Set
Serial No.(20 Characters) Station ID (16 Characters) S ID 001 User ID (16 Characters) U ID 001		Exit

The information area displays the data receiving status.

CAUTION:

Since access to other data is not permitted, other download buttons and the "Set" button are disabled while data is being downloaded.

④ Downloading all main unit data

• All data Clicking the "Complete Download" button downloads all data, including "Instrument Information", "Interval Trend", "Alarm Trend", "Alarm Events", "Trouble Events", and "Power ON/OFF Events" data.

Click the "Complete Download" button.	
	_

GX-3R - Data Logger Management Program [P.No.*****]		
- Download	- Automatic Mode	
🗢 Serial Port 🛛 🔴 Connect	Automatic Download	9-9
Download State	Automatic Data Removal	Download
GX-3RConnection Successful. GX-3R Instrument Information Download. GX-3R Instrument Information Download Complete GX-3R Log Data Download	Download Commands Complete Download	Instrument
GX-3R Interval Trend Download. Interval Trend Update Database. GX-3R Interval Trend Download Complete.	Instrument Information	
GX-3R Alarm Trend Download. Alarm Trend Update Database. GX-3R Alarm Trend Download Complete.	Download Logger Data	Data
GX-3R Alarm Events Download. Alarm Events Update Database. GX-3R Alarm Events Download Complete.	Clear Logger Data	
GX-3R Trouble Events Download. Trouble Events Update Database. GX-3R Trouble Events Download Complete.	Power Off	Last Calibration
		00
Instrument		Set
Serial No.(20 Characters) Station ID (16 Characters) S ID 001 User ID (16 Characters) U ID 001		Exit

The information area displays the data receiving status.

CAUTION:

Since access to other data is not permitted, other download buttons and the "Set" button are disabled while data is being downloaded.

© Clearing GX-3R main unit data

• Clear data Clicking the "Clear Logger Data" button clears all data from the GX-3R.

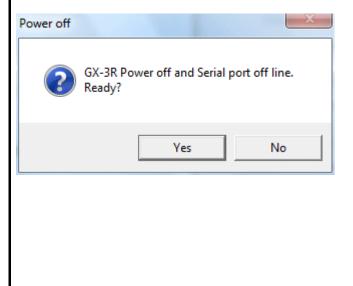
Click the "Clear Logger Data" button.
Logger Data Clear
GX-3R Data clear Ready?
Yes No
Click "Yes" to begin clearing the data.

- © Turning off the power for the GX-3R main unit
- Power off

Clicking the "Power Off" button turns off the power for the GX-3R main unit and resets the PC serial port.

1. Click the "Power Off" button.

Click "Yes" to begin the process of powering off the GX-3R main unit and to reset the PC serial port before switching to standby to await data from the main unit.



\odot Switching to automatic processing I

Automatic	1. Select the "Automatic Download" checkbox (if not already selected).
download mode	- Automatic Mode
	Click
	🗖 Automatic Data Removal
	Automatic Load
	Select automatic load mode. Caution! Download commands are not active.
	Yes No
	Click "Yes" to switch to automatic processing.
	Click "No" to cancel the mode change.
Automatic	All data is downloaded automatically by the PC when the GX-3R main unit is powered on.
removal after	The GX-3R main unit will then power off.
download	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.
	Automatic Mode Automatic Download Click
	Automatic Data Removal
	Auto data Removal.
	Remove Data after download.
	Ready?
	Yes No
	Click "Yes" to automatically delete all data inside the GX-3R after it is downloaded.
	* This is a convenient way to reduce download times when repeating the Download $ ightarrow$
	Delete \rightarrow Download procedure 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-3R main unit.

 Data source type GX-3R - Data 	© Status information	n info	alibration his	tory	Click this button.	
-Instrument Information [Conp						
GX-3R Status				on History	\	ere 🗌
	Gas	Calib.Date	Before	After A.Cal.	Cal.Due(Days)	
	CH4(100%LEL)		0	0 50	Now	
	02(40.0%)	1/1/2018	0.0	0.0 12.0	Now	Download
Serial No. (20 Characters)	H2S(200.0ppm)		0.0	0.0 25.0	Now	
	CO(2000ppm)	1/1/2018	0.0	0 50	Now	
Station ID (16 Characters)	CO(2000ppin)	1/1/2010	U	0 30	T NOW	
S ID 001						Instrument
-						Information
User ID (16 Characters)						
			Last Bu	mp Test		
	Gas	Bump Test Date	Test Resul	t Concentration	mp Test Due(Da	
	CH4(100%LEL)	1/1/2018	0	0	Now	
	O2(40.0%)	1/1/2018	0.0	0.0	Now	Data
	H2S(200.0ppm)	1/1/2018	0.0	0.0	Now	
	CO(2000ppm)	1/1/2018	0	0	Now	
			-			
						Last Calibration
	Januaria					
		Warnir	ng and Alarm po	pint		
Gas	Warning	Alarm	AlarmH	STEL	TWA	IT I
CH4(100%LEL)	10	50	50			
O2(40.0%)	18.0	18.0	25.0			Set
H2S(200.0ppm)	1.0	10.0	10.0	5.0	1.0	
CO(2000ppm)	∧ 25	50	50	200	25	
	7					-
	/ \					P
	Sensor alarm set					Exit
						EXIL
Info	ormation					

CAUTION: This screen is read-only. Data cannot be edited on this screen. \rightarrow See 3-6. Set screen. Data is not displayed if the "Instrument Information" data has not been downloaded.

① Data source type

 Data source information 	The indication will be "[Connected]" if information about the connected multi-gas monitor main unit is displayed.
	-Instrument Information [Connected]

- ② Status information
- Information details

Displays the "Serial No.", Station ID", and "User ID" stored inside the main unit. CAUTION: These boxes are read-only and cannot be edited.

GX-3R Status ----

Serial No. (20 Characters)

Station ID (16 Characters)

S ID 001

User ID (16 Characters)

③ Calibration history information

Calibration Calibration History history details Before Gas Calib.Date After A.Cal. Cal.Due(Days) CH4(100%LEL) 1/1/2018 0 0 50 Now O2(40.0%) 1/1/2018 0.0 0.0 12.0 Now H2S(200.0ppm) 1/1/2018 Now 0.0 0.0 25.0 1/1/2018 Now CO(2000ppm) 0 0 50 Details: Measured gas names (full-scale units) Gas: Date of last calibration Calib.Date: Before: Concentration before last calibration Concentration/calibration failure after last calibration After: A.Cal: Automatic calibration concentration Bump test Cal.Due (Days): Warranty period for uncalibrated state (A warning is displayed in history details red 1 month before calibration expires.) Last Bump Test Bump Test Date Test Result Concentration mp Test Due(Da Gas CH4(100%LEL) 1/1/2018 0 0 Now Now O2(40.0%) 1/1/2018 0.0 0.0 Now H2S(200.0ppm) 1/1/2018 0.0 0.0 CO(2000ppm) 1/1/2018 0 0 Now 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): Warranty period for state with no bump test (A warning is displayed in red 1 month before the bump test expires.)

④ Sensor alarm setpoint information

Details

		Wa	rning and Alarm po	int	
Gas	Warning	Alarm	AlarmH	STEL	TWA
CH4(100%LEL)	10	50	50		
O2(40.0%)	18.0	18.0	25.0		
H2S(200.0ppm)	1.0	10.0	10.0	5.0	1.0
CO(2000ppm)	25	50	50	200	25

20000	
Gas:	Measured gas names
Warning:	1st alarm setpoint concentration
Alarm:	2nd alarm setpoint concentration
AlarmH:	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.

Delete data.	1 Delet		contents.	Click	this buttor	1.	
GX-3R - Data r Management Progra	Im [P.N [©] View	data details.					- 🗆 <mark>- X</mark>
Data GX-3R	Name	SerialNo		UserID Date U_ID_0 6/15/	/Time 2018 2:00:0		ŧ/ŧ
□ ··· · · · · · · · · · · · · · · · · ·	iv1514044	I9	S_ID_001	U_ID_0 6/15/	2018 2:04:4		Download
Of/18							Instrument Information
							Data
③ Summary display area	Property		Valu	ie		<u> </u>	
	Name Sempling Date	iv15140007		/2018 2:04:49 PI	4		
	Serial No.	0/10/2010 2.00		2010 2.04.4011	"	La	st Calibration
	Station ID	S_ID_001	-			=	
	User ID	U_ID_001				=	0000
	Data Count	36					
	Interval Time (10					••
	Gas(FullScale	CH4(100%LEL		12S(200.0ppm	CO(2000pp		Set
	Avg	1 %LEL	****	0.0 ppm	0 ppm		
	Max	51 %LEL	****	0.0 ppm	0 ppm		-57
		06/15 14:00:07	*****	06/15 14:00:07	06/15 14:00		341
Serial No.	Min Data/Tima		*****	*****	****	-	Evit.
Station ID	•	III]	•		Exit
User ID			View Data				
		② View dat	a details.				

This screen can be used 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:03/11 = Data for March 2011File 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 each year. 4. See 4. Data Maintenance.

 Deleting data Delete 1. Click and select the data (folder) to delete. 2. Right-click without moving the mouse. StationID UserID Date/Time Name SerialNo 1514000 5/2018 2:00:0... ട_ID 001 Click Delete iv15140 5/2018 2:04:4... Click "Delete" on the "Delete" menu that appears. Password input 1. Enter the password at the prompt, then click the "Continue" button. Reserved Password Please input password. Continue Change Password CAUTION: Clicking "Continue" without entering a password will cancel the delete. 2. The following message will appear when you enter the correct password and click the "Continue" button. **Delete Sample** Delete sample iv15140007_------Ready? <u>Y</u>es No Click the "Yes" button to delete the data. Click the "No" button to cancel data deletion.

② Viewing 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 information on how to operate the Data View screen: \rightarrow 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	iv15140007						
Sampling Date	6/15/2018 2:00	0:07 PM to	6/15/2	2018 2:04:49 PI	M		
Serial No.		-					
Station ID	S_ID_001					=	
User ID	U_ID_001					-	
Data Count	36						
Interval Time (10						
Gas(FullScale	CH4(100%LEL	02(40.0)%)	12S(200.0ppm	CO(2000p	pr	
Avg	1 %LEL	*****		0.0 ppm	0 ppm	ı	
Max	51 %LEL	*****		0.0 ppm	0 ppm	1	
Max Date/Time	06/15 14:00:07	****		06/15 14:00:07	06/15 14:0	DI	
Min	****	*****		****	*****		
Min Dote/Time		****		****	****	Ψ.	
•					,		
Name: Sampling Date Serial No./Stat Data Count: Interval Time (Gas (FullScale Avg: Max: Max Date/Time Min: Min Date/Time Warning: Alarm: AlarmH: STEL: TWA:	ion ID/User ID sec): e) - base: e:	9: GX-3 Num Sam Gas Gas Date Gas Date 1st a 2nd a 3rd a STEI	and BR ma ber o pling (full-s avera data and data and larm alarm L alar	time of measu ain unit status f data samples interval (secon cale) - base age value maximum valu- time of maxim minimum valu- time of minimu setpoint setpoint setpoint m setpoint n setpoint	s nds) ie um value e	dete	ection
Alarm events DateTim		Gas		Event	•		1
5/30/2018 4:17			WAR		•		1
5/30/2018 4:17							
5/30/2018 4:17							
Gas: Ga	ate and time o as generated vent type	f event oc	curre	nce			T

Property				Value	9		*
Name	al1514	0008					
Alarm Date/Tir	6/15/20	18 2:00	:08 PM				
Serial No.							
Station ID	S_ID_0	01					
User ID	U_ID_0	001					
Data Count	720						
Interval Time (5						
Gas(FullScale	130H(1	00%LE	02(40.0	%)	12S(200.0ppr	m CO(2000pp	
Value	51 %	LEL	*****		0.0 ppm	0 ppm	
Warning	10 %	LEL	18.0 %	6	1.0 ppm	25 ppm	
Alarm	50 %	LEL	18.0 %	6	10.0 ppm	50 ppm	
AlarmH	50 %	LEL	25.0 %	6	10.0 ppm	50 ppm	
OTEL	***	**	*****		E 0 0000	000 000	Ŧ
Gas (FullScale)		e:	Samp Gas (oling full-s	f data sample interval scale) - base		155
Interval Time (s Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA:		ə:	Samp Gas (Conc 1st al 2nd a 3rd al STEL	oling full-s entra arm larm larm alar	interval .		urro
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration hist) - base		Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA	oling full-s entra arm larm larm alar	interval scale) - base ation at time of setpoint setpoint setpoint m setpoint n setpoint	of alarm occi	urre
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe DateTime) - base ory	G	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA	oling full-s entra arm larm larm . alar alarn	interval scale) - base ation at time of setpoint setpoint setpoint m setpoint n setpoint Before		urre
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe DateTime 6/14/2018 11:49	ory 9:24 Alv	G CH4(10	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA	oling full-s entra arm larm larm . alar alarn	interval scale) - base ation at time of setpoint setpoint m setpoint n setpoint n setpoint Before 0 %LEL	of alarm occi	urre
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration hist DateTime 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA	oling full-s entra arm larm larm alarn alarn	interval interval iccale) - base ation at time of setpoint setpoint m setpoint n setpoint Before 0 %LEL 20.9 %	of alarm occi	urre
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration hist DateTime 6/14/2018 11:49 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 6as 00%LEL) 0%) 0.0ppm)	oling full-s entra arm larm larm alarn alarn	interval interval iscale) - base ation at time of setpoint setpoint m setpoint n setpoint Before 0 %LEL 20.9 % 0.0 ppm	of alarm occi	
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration hist DateTime 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 6as 00%LEL) 0%) 0.0ppm)	oling full-s entra arm larm larm alarn alarn	interval interval iccale) - base ation at time of setpoint setpoint m setpoint n setpoint Before 0 %LEL 20.9 %	of alarm occi	JLL
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration hist DateTime 6/14/2018 11:49 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 6as 00%LEL) 0%) 0.0ppm)	oling full-s entra arm larm larm alarn alarn	interval interval iscale) - base ation at time of setpoint setpoint m setpoint n setpoint Before 0 %LEL 20.9 % 0.0 ppm	of alarm occi	urro
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe DateTime 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200 ()	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 0%LEL) 0%) 0.0ppm) 00ppm)	bling full-s entra arm ilarm alarm . alar alarr (interval interval iscale) - base ation at time of setpoint setpoint m setpoint m setpoint n setpoint Before 0 %LEL 20.9 % 0.0 ppm 	of alarm occi	
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe DateTime 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49	ory 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200 () CH4(10	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA as 00%LEL) 0%) 0.0ppm) 00%LEL)	bling full-s entra arm larm larm . alar alarr ((interval interval ition at time of setpoint setpoint m setpoint n setpoint n setpoint 0 %LEL 20.9 % 0.0 ppm 	of alarm occi	
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/1/2018 2:29:4	ory 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv 9:24 Alv 14 PM	G CH4(10 O2(40.0 H2S(20 CO(200 () CH4(10 O2(40.0	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA as 0%LEL) 0%) 0.0ppm) 00%LEL) 0%)	bling full-s entra arm larm larm . alarr alarr ((interval interval iscale) - base ation at time of setpoint setpoint m setpoint m setpoint n setpoint 0 %LEL 20.9 % 0.0 ppm 0 %LEL 20.9 %	of alarm occi	JLLC
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/1/2018 2:29:4 6/1/2018 2:29:4	ory 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200 () CH4(10 O2(40.0 H2S(20	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 0%LEL) 0%) 0.0ppm) 00%LEL) 0%) 0.0ppm)	bling full-s entra arm larm larm . alarr alarr ((interval interval iscale) - base ation at time of setpoint setpoint m setpoint n setpoint n setpoint 0 %LEL 20.9 % 0.0 ppm 0 %LEL 20.9 % 0.0 ppm	of alarm occi	JLL
Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/1/2018 2:29:4	ory 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200 () CH4(10 O2(40.0 H2S(20 CO(200	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 0%LEL) 0%) 0.0ppm) 00%LEL) 0%) 0.0ppm)	bling full-s entra arm larm larm . alarr alarr ((interval interval iscale) - base ation at time of setpoint setpoint m setpoint m setpoint n setpoint 0 %LEL 20.9 % 0.0 ppm 0 %LEL 20.9 %	of alarm occi	
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Gas (FullScale) Value: Warning: Alarm: AlarmH: STEL: TWA: Calibration histe 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/14/2018 11:49 6/1/2018 2:29:4 6/1/2018 2:29:4	ory 9:24 Alv 9:24 Alv	G CH4(10 O2(40.0 H2S(20 CO(200 () CH4(10 O2(40.0 H2S(20 CO(200	Samp Gas (Conc 1st al 2nd a 3rd al STEL TWA 0%LEL) 0%) 0.0ppm) 00%LEL) 0%) 0.0ppm)	bling full-s entra arm larm larm . alarr alarr ((interval interval iscale) - base ation at time of setpoint setpoint m setpoint n setpoint n setpoint 0 %LEL 20.9 % 0.0 ppm 0 %LEL 20.9 % 0.0 ppm	of alarm occi	

DateTime:Date and time of event occurrenceGas:GasBefore:Concentration before calibration

After: Co

Concentration before calibration Concentration after calibration

DateTime	Gas/Body	Event
6/14/2018 11:49:24 AN	CO(2000ppm)	Fail(Span)
6/14/2018 11:49:24 AN	H2S(200.0ppm)	Fail(Span)
6/14/2018 11:49:24 AN	O2(40.0%)	Fail(Span)
6/14/2018 11:49:24 AN	CH3OH(100%LE	Fail(Span)
6/1/2018 2:29:44 PM	CO(2000ppm)	Fail(Span)
6/1/2018 2:29:44 PM	H2S(200.0ppm)	Fail(Span)
6/1/2018 2:29:44 PM	O2(40.0%)	Fail(Span)
6/1/2018 2:29:44 PM	CH4(100%LEL)	Fail(Span)
	13 Datas	
DateTime: D	ate and time of e	vent occurrence
	as generated or vent type	GX-3R main unit
Dumme to ata		

Bump tests

Gas H4(100%L)2(40.0%) I2S(200.0p :O(2000ppr ()	Test Result 0 %LEL 21.1 % 0.0 ppm 0 ppm	Concentration 50 %LEL 12.0 % 25.0 ppm 50 ppm	FAIL FAIL FAIL FAIL
2(40.0%) 2S(200.0p C(2000ppr	21.1 % 0.0 ppm	12.0 % 25.0 ppm	FAIL FAIL
2S(200.0p O(2000ppr	0.0 ppm	25.0 ppm	FAIL
O(2000ppr		ļ	
·····	0 ppm	50 nnm	E 4 11
		oo ppin	FAIL
()			
H4(100%L	0 %LEL	50 %LEL	FAIL
2(40.0%)	20.9 %	12.0 %	FAIL
2S(200.0p	0.0 ppm	25.0 ppm	FAIL
O(2000ppr	0 ppm	50 ppm	FAIL
()			
otal	3	Datas	
	H4(100%L 2(40.0%) 2S(200.0p O(2000ppr ()	H4(100%L 0 %LEL 2(40.0%) 20.9 % 2S(200.0p 0.0 ppm O(2000ppr 0 ppm ()	H4(100%L 0 %LEL 50 %LEL 2(40.0%) 20.9 % 12.0 % 2S(200.0p 0.0 ppm 25.0 ppm O(2000ppr 0 ppm 50 ppm ()

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

3-4. Data View screen

This screen displays data details in table and graph format.

Sele	ect table or graph.	© Sen	d to printer.	3	Save to file.	4 T	o view data	a summary at the same
4	ata Logger Manager	nent Program (F	P.No.*****]				7	
Vie	(Interval Trend)			\	\mathbb{N}	/		
able		t Only 🔲 Con	densed	N Print	Export S	Summary	Return	
lo	Date/Time	:H4(100%LEL	O2(40.0%)	12S(200.0nnm	CO(2000ppm)	()	emperatur 4	
1	6/15/2018 2:00:08 PM	ALARM H						
2	6/15/2018 2:00:08 PM	ALARM						Download
3	6/15/2018 2:00:08 PM							
4	6/15/2018 2:00:16 PM	AIR		AIR	AIR			
5	6/15/2018 2:00:17 PM	29 %LEL	*****	0.0 ppm	0 ppm		29.1 °C	
6	6/15/2018 2:00:18 PM	-ALARM H						Instrument
7	6/15/2018 2:00:18 PM	-ALARM						Information
8	6/15/2018 2:00:18 PM	-WARNING						
9	6/15/2018 2:00:18 PM	Representation of the second second						
0	6/15/2018 2:00:27 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.2 °C	
1	6/15/2018 2:00:37 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.3 °C	
12	6/15/2018 2:00:47 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.3 °C	Data
3	6/15/2018 2:00:57 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.4 °C	
14	6/15/2018 2:01:07 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.4 °C	
15	6/15/2018 2:01:17 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.5 °C	
16	6/15/2018 2:01:27 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.6 °C	
7	6/15/2018 2:01:37 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.6 °C	Last Calibration
8	6/15/2018 2:01:47 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.6 °C	
9	6/15/2018 2:01:57 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.7 °C	17
0	6/15/2018 2:02:07 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.7 °C	
1	6/15/2018 2:02:17 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.7 °C	
2	6/15/2018 2:02:27 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.8 °C	Set
3	6/15/2018 2:02:37 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.8 °C	
4	6/15/2018 2:02:47 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.8 °C	
5	6/15/2018 2:02:57 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.8 °C	
6	6/15/2018 2:03:07 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.8 °C	
7	6/15/2018 2:03:17 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.9 °C	Exit
8	6/15/2018 2:03:27 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.9 °C	
29	6/15/2018 2:03:37 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.9 °C	
0	6/15/2018 2:03:47 PM	0 %LEL	*****	0.0 ppm	0 ppm		29.9 °C	-

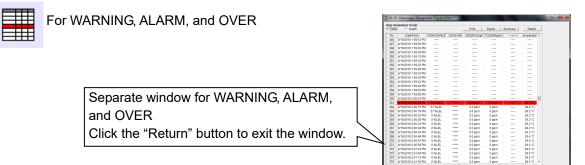
Event Only: Displays event data only.

□ 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 the alarms occurred in red.

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 trend data and to display the data (if any) in a separate window.



* The "Alarm Trend" data table highlights the locations of the alarms occurred in red.

Selecting table or graph

• Select graph 1. Select "Graph" of the "Table" and "Graph" radio buttons at the top left of the screen.

Data View(Interval Trend) O Table O Graph		Print Export	Summary	Return	
CH4 02	Data Browse (iv18160242			2 Temp.	
70 30.0			10 10.0		Download
63 27.0			9 9.0	00 36.0	Instrument
56 24.0			8 8.0	00 32.0	Information
49 21.0			7 7.0	00 28.0	
42 18.0			6 6.0	00 24.0	Data
35 15.0			5 5.0	00 20.0	
28 12.0			4 4.0	00 16.0	
21 9.0			3 3.0	00 12.0	Last Calibration
14 6.0			2 2.0	00 8.0	17
7 3.0			1 1.0	00 4.0	Set
0 0.0	01/18 16:04:52 01/18 16:07	02 01/18 16:09:12 01/18 1	0 0.0	0.0 0.0	-
%LEL %	Sampling Date/Time: 18-Jan	-18 16:02:52 to 18-Jan-18 16	6:12:22 ppm pp	m _« C	Exit
I	0%LEL O2(40.0%)	C0_C0-H2(2	:12:22 ppm pp 20▼ SO2(100.00pp)▼		Exit
		C0_C0-H2(2			
I	0%LEL O2(40.0%)	C0_C0-H2(2			
Zoom 1 .	0%LEI⊽ O2(40.0%) Γ Ev	I CO_CO-H2(2 ent ☐ Cursor	07 SO2(100.00pp7	Temperature	
Zoom 1 CH4(10)	0%LEI⊽ O2(40.0%) Γ Ev	I CO_CO-H2(2 ent ☐ Cursor	07 SO2(100.00pp7	Temperature	
Zoom 1 CH4(100 Zoom 1 definition /arious operation he screen.	0%LEI⊽ O2(40.0%) Γ Ev	ent Cursor	or so2(100.00ppr	Temperature	
Zoom T CH4(10) Zoom T CH4(10) /arious operation he screen.	o%LEI⊽ o2(40.0%) Γ Ev s are available u	ent CO_CO-H2(2 Cursor	or so2(100.00ppr	Temperature	es at the botton
/arious operation he screen.	0%LEI⊽ 02(40.0%) Is are available us 4(100%LEI⊽ 02(40.0%)	ent CO_CO-H2(2 Cursor	xes and cor	Temperature	es at the botton
Zoom 1 CH4(10) Zoom 1 CH4(10) Arious operation he screen.	0%LEI⊽ 02(40.0%) Is are available u: 4(100%LEI⊽ 02(40.0% ▼	ent CO_CO-H2(2 Cursor	cor so2(100.00pp) oxes and cor Image: Co_co-H2(2 Image: Cursor	nbo box 0⊽ SO2(10	es at the botton
Zoom 1 CH4(10) Zoom 1 CH4(10) Various operation he screen. Zoom 1 CH4 Zoom 1	0%LEI⊽ 02(40.0%) Is are available u: 4(100%LEI⊽ 02(40.0%) ▼ s (gas names):	ent CO_CO-H2(2 Cursor sing the checkbo	xor so2(100.00ppr oxes and cor r CO_CO-H2(2 □ Cursor s the corresp	nbo box vor so2(10 ponding	es at the botton
Zoom Tech4(10) Zoom Tech4(10) Arious operation he screen.	0%LEI⊽ 02(40.0%) s are available us 4(100%LEI⊽ 02(40.0%) ▼ s (gas names): 1 b):	ent CO_CO-H2(2 Cursor sing the checkbo) Event Displays or hides Specify a horizor	oxes and cor CO_CO-H2(2 Cursor S the correspondent axis scal	nbo box vor so2(10 ponding	es at the botton
Various operation he screen.	0%LEI⊽ 02(40.0%) Is are available u: 4(100%LEI⊽ 02(40.0%) ▼ es (gas names): 1 px:	ent CO_CO-H2(2 Cursor sing the checkbo	oxes and cor CO_CO-H2(2 □ Cursor S the corresp ntal axis scal les.	nbo box vor so2(10 ponding le factor	es at the botton 00.00ppl⊽ Temperatu gas data. appropriate for
Zoom The screen.	0%LEI▼ 02(40.0%) Is are available us 4(100%LEI▼ 02(40.0%) ▼ us (gas names): us (gas names): :	ent CO_CO-H2(2 Cursor sing the checkbo) Cisplays or hides Specify a horizor number of sampl Displays event in events.	xes and cor CO_CO-H2(2 Cursor S the corresp ntal axis scal les. nformation m	nbo box vor so2(10 ponding le factor narkers f	es at the botton 00.00ppl⊽ Temperatu gas data. appropriate for
Zoom Techeckboxe Zoom Techeckboxe Zoom Zoom Checkboxe	0%LEI▼ 02(40.0%) Is are available us 4(100%LEI▼ 02(40.0%) ▼ us (gas names): us (gas names): :	ent CO_CO-H2(2 Cursor c	xes and cor CO_CO-H2(2 Cursor S the corresp ntal axis scal les. nformation m	nbo box vor so2(10 ponding le factor narkers f	es at the botton 00.00ppl⊽ Temperatu gas data. appropriate for
Zoom The screen.	0%LEI▼ 02(40.0%) Is are available us 4(100%LEI▼ 02(40.0%) ▼ us (gas names): us (gas names): :	ent CO_CO-H2(2 Cursor sing the checkbo) Cisplays or hides Specify a horizor number of sampl Displays event in events.	xes and cor CO_CO-H2(2 Cursor S the corresp ntal axis scal les. nformation m	nbo box vor so2(10 ponding le factor narkers f	es at the botton 00.00ppl⊽ Temperatu gas data. appropriate for

greater: Ymax = {int (x / 10) + 1} × 10, and for full scale under 10: Ymax = {int (x) + 1} "int": Decimal values are discarded.

CAUTION:

No graph will be drawn unless there are five or more normal concentration data samples.

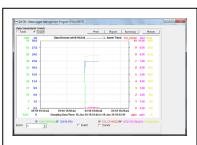
Data consisting only of events cannot be displayed in graph form because they do not contain concentration information.

The mouse cursor will appear as follows when hovered over "WARNING", "ALARM", or "OVER" event data. Click here to search for the

corresponding trend 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 Sending to printer

• Print

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

1	Contraction of the local division of the loc	t the top of the screen. anagement Program (P.No.05975)	Click "Print".			
-Data View(I C Table	nterval Trend • Graph) Print	Export Summa	ry	Return	ŧ4
CH4 70	O2 30.0	Data Browse (iv18160242		12 SO2 10 10.00		Download
63	27.0			9 9.00	36.0	
56	24.0			8 8.00	32.0	Instrument Information
49	21.0			7 7.00	28.0	
42	18.0			6 6.00	24.0	Data
35	15.0			5 5.00	20.0	
28	12.0			4 4.00	16.0	
21	9.0			3 3.00	12.0	Last Calibration
14	6.0			2 2.00	8.0	
7	3.0			1 1.00	4.0	Set
0	0.0	:52 01/18 16:04:52 01/18 16:07:02 01/18 16:0	9:12 01/18 16:11:12	0 0.00	0.0	47.
%LEL	%	Sampling Date/Time: 18-Jan-18 16:02:52 to 1	(8-Jan-18 16:12:22 pr	m ppm	۰C	Exit
Zoom 1	♥ CH4(▼		CO_CO-H2(20 SO2(100) Cursor	00pp 🔽 1	emperature	

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

Printer L	ist	and the second s	×
Printer	Microsof	t XPS Document Writer	•
	ОК	Cancel	

Click the "OK" button to begin printing.

Click the "Cancel" button to return to the Data View screen without printing.

Sample printout (graph print)

Sample printout (table print)

							erty	Value					
ime impling Date/Time ital No. alton ID ata Dount ita Count ierval Time (aec)	1/15/15/242 1/15/2015 4:02:4 56 10	Z PM IS 1/18/2018 4:	12:25 PM				e ping GalaiTime el No. ton ID 10 i Count vui Time (sec)	H15140007 6/15/2018 2:00:07 5_10_001 U_ID_001 28 10	PM to 6/15/2011	5 2:04:49 PM			
ss(FullScale)	CH4(100%LEL)		()	CO_CO-H2(2000pg		Temperature	FullScale)	CH4(100%LEL)	O2(40.0%)	H25(200.0com)		()	
	O WLEL SO WLEL	20.5 %		0 ppm 0 ppm	0.07 ppm 0.30 ppm		, ,	1 NUEL		0.0 ppm	0 ggm		
s: Date/Time	01/15 16:02:42	01/18 16:02:51		01/15 16:02:42	01/18 16:12:24		Date/Time	51 %LEL 06/15 14:00:07		0.0 ppm 06/15 14:00:07	0 ppm 05/15-14:00:07		
n Deleji ime		15.5 % 01/15 16:02:42											
aming	10 WLEL	18.0 %		25 ppm	2.00 ppm		DetelTime						
nm nm H	50 WLEL 50 WLEL	18.0 %		50 ppm 50 ppm	5.00 ppm 10.00 ppm		ning m	10 NUEL 50 NUEL	15.0 %	1.0 ppm 10.0 ppm	25 ppm 50 ppm		
	SO WEEL	25.0 %		200 ppm	10.00 ppm 5.00 npm			SO WEEL	25.0 %	10.0 ppm	50 ppm		
VA				25 ppm	2.00 ppm		L			5.0 ppm	200 ppm		
										1.0 ppm	25 ppm		
CH4 02	D-1- P-1	wae (1/15160242		- Internal Transf	CO_CO-HZ	507 Terrs	Date/Time 6/15/2015 2:00:05 PM	CH4(100%LEL) ALABW H	O2(40.0%)	H25(200.0ppm)	CD(2000ppm)	()	
70 30.0		W10100242		y - company i rend	10	10.00 40.0	6/15/2018 2:00:05 PM 6/15/2018 2:00:05 PM	ALARM H ALARM					
							6/15/2015 2:00:05 PM	WARNING					
63 27.0						9.00 35.0	6/15/2018 2:00:16 PM 6/15/2018 2:00:17 PM	AIR 29 %LEL		AIR 0.0 ppm	AIR. Diggim		
							6/15/2016 2:00:17 PM	-ALARVIH		0.0 ppm	0.050		
55 24.0						5.00 32.0	6/15/2015 2:00:15 PM	-ALARM					
							6/15/2018 2:00:18 PM 6/15/2018 2:00:18 PM	-WARNING NORMAL					
49 21.0					,	7.00 28.0	6/15/2018 2:00:18 PM 6/15/2018 2:00:27 PM	O NURMAL		0.0 ppm	0 ppm		
							6/15/2015 2:00:37 PM	ONLEL		0.0 ppm	0 ppm		
42 18.0						6.00 24.0	6/15/2015 2:00:47 PM 6/15/2015 2:00:57 PM	O NUEL O NUEL		0.0 ppm 0.0 ppm	0 ppm 0 ppm		
							6/15/2018 2:00:57 PM 6/15/2018 2:01:07 PM	O WLEL O WLEL		0.0 ppm	0 000		
35 15.0						5.00 20.0	6/15/2018 2:01:17 PM	O WELEL		0.0 ppm	0.00m		
							6/15/2018 2:01:27 PM 6/15/2018 2:01:37 PM	O WLEL O WLEL		0.0 ppm 0.0 ppm	0 ppm		
25 12.0						4.00 16.0	6/15/2015 2:01:47 PM	OWLEL		0.0 ppm	0 ppm		
							6/15/2018 2:01:57 PM	O WELEL		0.0 ppm	0 ppm		
21 9.0						3.00 12.0	6/15/2015 2:02:07 PM 6/15/2015 2:02:17 PM	O NUEL O NUEL		0.0 ppm 0.0 ppm	0 ppm		
21 9/0					3	2.00 12.0	6/15/2016 2:02:27 PM	O WLEL		0.0 ppm	0.00m		
14 6.0					_	2.00 8.0	6/15/2015 2:02:27 PM	O WUEL		0.0 ppm	0.00m		
14 6.0					1	2.00 8.0	6/15/2018 2:02:47 PM 6/15/2018 2:02:57 PM	O NUEL O NUEL		0.0 ppm 0.0 ppm	0.00m		
7 3.0						1.00 4.0	6/15/2018 2:02:07 PM	OWNER		0.0 ppm	0 00m		
					1	1.00 4.0	6/15/2015 2:02:17 PM	OWLEL		0.0 ppm	0.00m		
							6/15/2018 2:03:27 PM 6/15/2018 2:03:37 PM	O WLEL O WLEL		0.0 ppm 0.0 ppm	0.00m		
	16:02:52 01/18 16:04:5	2 01/15 16:07:0	2 01/18	16:09:12 01/18 1		0.00 0.0	6/15/2015 2:02:47 PM	O NUEL		0.0 ppm	0 ppm		
LEL N		lateiTime: 15-Jan-15				ppm «C	6/15/2018 2:02:57 PM	O NULEL		0.0 000	0 ppm		
							6/15/2015 2:04:07 PM 6/15/2015 2:04:17 PM	O NUEL O NUEL		0.0 ppm 0.0 ppm	0 00m		
							6/15/2015 2:04:27 PM	O VALEL		0.0 ppm	0 ggm		
							6/15/2015 2:04:37 PM	O WELEL		0.0 ppm	0 ggm		
							6/15/2018 2:04:47 PM	OWLEL		0.0 ppm	0 ppm		

Sample printout (calibration history) Sample printout (alarm events) GX-3R Data Logger (Calibration History) 6/18/2018 10:33:24 AM GX-3R Data Logger (Alarm Event) 6/18/2018 10:33:49 AM Property Value Property Serial No. Station ID User ID Last Down 6/18/2016 10:19:56 AM Serial No. Station ID User ID Lest Down 6/15/2015 10:19:55 AN Ch2 C2(40.04 20.9 % Date Gas 1 2 3 5/20/2018 4:17:22 PM CH4(100%LEL) 5/20/2018 4:17:22 PM CH4(100%LEL) 5/20/2018 4:17:22 PM CH4(100%LEL) 5/20/2018 4:17:22 PM CH4(100%LEL) WARNING ALARM ALARM H 02(40.0% 20.9 % Sample printout (bump tests) GX-3R Data Logger (Bump Test) 6/18/2018 10:33:36 AM Value Property Serial No. Station ID User ID Last Down 6/15/2015 10:19:56 AN 21.1 % 12.0 % FAIL 0.0 pc 25.0 p EAU 0 ppm 50 ppm FAIL (2000p) 0 ppm 50 ppm FAIL (2000p) 0 ppm 50 ppm FAIL 20.9 % 12.0 % FAIL

ample printout (trouble events)	
GX-3R Data Logger (Trouble Event)	6/18/2018 10:34:05 AM
Property Value	
Serial No	
Lest Downlasd 6118/2016 10:19.26 AM	
1 e14-2015 14-22-4 ALCC12000pm) Fal(5pan) 2 e14-2015 14-22-4 ALCC12000pm) Fal(5pan) 3 e14-2015 14-22-4 ALC2240 C4() Fal(5pan) 3 e14-2015 14-22-4 ALC2240 C4() Fal(5pan) 4 e14-2015 12-24-4 (C2)(C2)(C2)(C2)(C2)(C2)(C2)(C2)(C2)(C2)	
5 61/12/19 22244 FM (25200.0gom) Fall(Span) 7 61/2019 22244 FM (24204) Fall(Span) 8 61/2019 22244 FM (244105%)L] Fall(Span) 9 61/2019 2121 FM (2012005pm) Fall(Span) 10 61/2019 2121 FM (2012005pm) Fall(Span)	
10 61/12015 21/227 PM HS2(200.0pm) Fat(Spen) 11 61/12015 21/227 PM CR4(00) Fat(Spen) 12 61/12016 21/127 PM CR4(000LLL) Fat(Spen) 13 30/02016 41/119 PM (204/00) Fat(Spen)	
L	

Printer setup precautions

The detailed printer settings vary depending on the printer used. Refer to the printer instruction manual for more information.

[©] 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 Saving to file

Save

1. Click the "Export" button at the top of the screen.

Save As			x
OO - 📕 « Ap		 ✓ ✓ Search GX-3R 	٩
Organize 🔻 Ne	w folder	:≕ ▼	0
☆ Favorites	Name	Date modified Typ	e
Desktop Desktop Downloads	🍌 Data	6/18/2018 10:19 AM File	folde
Libraries Documents Music Pictures	E		
👰 Computer	- · ·		Þ
File name:	Sample.csv		•
Save as type:	Comma csv (*.csv)		•
Alide Folders		Save Cancel	

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 Excel CSV format. If a graph is displayed, the graph will be saved as a bitmap.

④ Viewing data summary at the same time

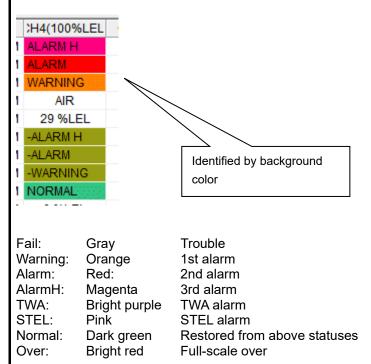
• Summary display 1. Click the "Summary" button at the top of the screen. Click 🔜 GX-3R - Data Logger Management Program [P.No.**** Data View(Interval Trend) Graph □ Event Only □ Condensed Summary Export Return Print łł Property Value . Name iv15140007 Download Sampling Date/Time 6/15/2018 2:00:07 PM to 6/15/2018 2:04:49 PM Е Serial No. Station ID S_ID_001 User ID U_ID_001 Instrument 36 Data Count Information Interval Time (sec) 10 Gas(FullScale) ;H4(100%LEL 02 %) I2S(200.0ppm CO(2000ppm) ----(---) emperatur 111 . No Date/ I2S(200.0ppm CO(2000ppm) ----(---) emperatur Data 6/15/2018 2 1 A summary is 2 6/15/2018 2 -------------------displayed. 3 6/15/2018 2 _____ _____ _____ -----AIR AIR _____ 4 6/15/2018 2.00 ____ ***** 5 6/15/2018 2:00:17 PM 29 %LEL 0.0 ppm 0 ppm 29.1 °C Ξ Last Calibration 6 6/15/2018 2:00:18 PM LARMH ----6/15/2018 2:00:18 PM -----7 ALARM ---------------8 6/15/2018 2:00:18 PM VARNING ---------------Î 9 6/15/2018 2:00:18 PM NORMAI -----***** 29.2 °C 0.0 ppm 10 6/15/2018 2:00:27 PM 0 %LEL 0 ppm Set ***** 11 6/15/2018 2:00:37 PM 0 %LEL 0.0 ppm 0 ppm 29.3 °C ***** 12 6/15/2018 2:00:47 PM 0 %LEL 0.0 ppm 0 ppm 29.3 °C 6/15/2018 2:00:57 PM 0 %LEL ***** 29.4 °C 13 0.0 ppm 0 ppm **3** 6/15/2018 2:01:07 PM ***** 29.4 °C 14 0 %LEL 0.0 ppm 0 ppm ***** 29.5 °C 6/15/2018 2:01:17 PM 15 0 %LEL 0.0 ppm 0 ppm ***** Exit 16 6/15/2018 2:01:27 PM 0 %LEL 0.0 ppm 0 ppm 29.6 °C ***** 17 6/15/2018 2:01:37 PM 0 %LEL 0.0 ppm 0 ppm -----29.6 °C ***** 18 6/15/2018 2:01:47 PM 0 %LEL 0.0 ppm 0 ppm 29.6 °C 19 6/15/2018 2:01:57 PM 0 %LEL ***** 0.0 ppm 0 ppm 29.7 °C

Click the "Summary" button while the summary is displayed to hide 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.

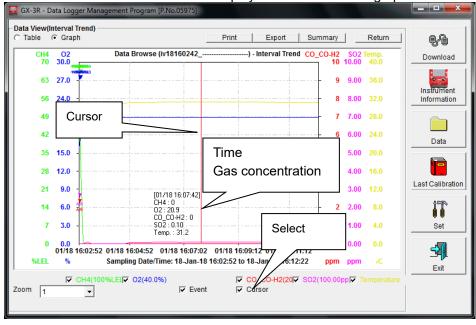


1.

© Graph details

Cursor

Select the "Cursor" checkbox to display the cursor over the graph.



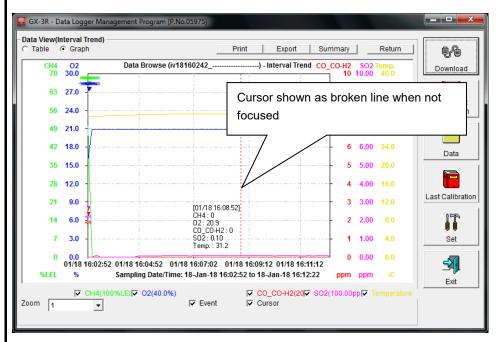
Use the " \leftarrow " and " \rightarrow " keys to move the cursor left and right. Use the " \uparrow " and " \downarrow " keys to move the time and concentration display up and down.

Press the "Shift" key at the same time to move the cursor faster.

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

This checks for the calibration expiration of previously downloaded main unit data. Bump tests are also displayed in the same way.

		display detai	ils.		② Send to p	rinter.	· · · · · · · · · · · · · · · · · · ·	
GX-3R - Data Logg		AProgram (Pa	NO.]					
Last Calibration								-
O Need Calibration	0	Calibration D	ate	Calibration	Record	Print		
No. SerialNo	UserID	StationID	Gas	Before	After	A.Cal.	Cal.Due(Day:	
1	U_ID_001	S_ID_001	CH4	C			Now	Download
			02	0.0			Now	
			H2S	0.0			Now	
			CO	0	0	50	Now	a second
		\setminus \setminus						Instrument
								Information
		③ Delete da						
		④ Change p	bassword.					
								Data
								Data
								Data
•			m		Click	, this button		Data
<			III			< this button.		
		Bump Test Da		 Bump Tes 		< this button.		
Need Bump Test	C UserID	Bump Test Da	ate		tRecord			
Need Bump Test		-	ate D Gas		tRecord	ncentration	Prim	
Need Bump Test	UserID	StationI	ate D Gas		t Record Result Co	oncentration 0	Print Bump Test Du	
Need Bump Test	UserID	StationI	ate D Gas 01 CH4		Record Result Co 0	oncentration 0 0.0	Print Bump Test Du Now	
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S		Result Cc 0 0.0	oncentration 0 0.0 0.0	Prim Bump Test Du Now Now	
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now	Last Calibration
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
Need Bump Test No. SerialNo	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration
Need Bump Test	UserID	StationII S_ID_00	ate D Gas 01 CH4 02 H2S Bump test		Result Co 0.0 0.0	oncentration 0 0.0 0.0 0.0	Print Bump Test Du Now Now Now Now	Last Calibration

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

Selecting display details

xpired data			leed Calib	ration" radi	o button.					
		Calibration — ed Calibration	n (Calibration [Date	C Calib	oration R	Record		Print
	No.	SerialNo	Usend	StationID C	H4 C)2 H	12S	CO		Last Downlo
		1	- U_ID_001	S_ID_001	Click)18 1	/1/2018	1/1/2018		6/18/2018 1
				previously n download				units (for	which dev	ice
st display		lick the "C Calibration	alibration	Date" radio	button.					
		ed Calibration	n (Calibration E	Date	C Calib	ration R	ecord		Print
	No.	SerialNo	UserID	StationID CI	H4 0	2 H	2S	CO		Last Downlo
	-	1	U_ID_001	S_ID_001 1/	1/2018 1/	1/2018 1/	1/2018	1/1/2018		6/18/2018 1
etailed display	-Last (Calibration —		Record" ra						
		ed Calibration		Calibration E		Calib			4.0-1	Print
	No.	SerialNo 1	UserID U_ID_001	StationID S_ID_001	Gas CH4	Before	0	After 0	A.Cal. 50	Cal.Due(Day: Now
					02		0.0	0.0		Now
					H2S		0.0	0.0		Now
		_			CO		0	0	50	Now
	İnstru For r	ument Info nore info	ormation so rmation o	isly connec creen. In display of rument Inf	contents	: → Refe				

② Sending to printer

• Print

The most recent calibration dates shown in the "Need Calibration" and "Calibration Date" displays can be printed out.

The printer selection window appears. Select the desired printer and click the "OK" button. Printer List

Printer	Microsoft XPS Document Writer				
	ОК	Cancel			

GX-3F	GX-3R Data Logger (Last Calibration) 6/18/2018 10:39:52 AM							
No.	SerialNo	UserID	StationID	CH4	CZ	H25	co	Last Download
1		U_ID_001	S_ID_001	1/1/2018	1/1/2018	1/1/2018	1/1/2018	 6/18/2018 10:19:36 AM

③ Deleting data

	O Need Calibration	n	Calibration	on Date	0	Calibration	Record		Print
	No. SerialNo	UserID U_ID_001	StationID S_ID_001	CH4	O2 Delete	H2S	Click]	Last Downle 6/18/2018 1
	CAUTION: Or displays can Data cannot I	be delete	d.					ibration Da	ite"
sword input	 Click the "E the "Continue" Password Please input p 	button.	tton to dis	play a	passwor	d dialog.	Enter the	password,	then click
	Contin			ige Pas					
	CAUTION: Cli 2. The followi	ng messa			-				
	"Continue" but Delete History	ton.				x			
	() De	lete History	: SerialNo	=					
			<u>Y</u> es		<u>N</u> o				
	Click the "Yes' Click the "No"				tion.				

Operating Procedures

④ Changing the password

• Password input

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

🧠 Password	X
Input current password.	

Continue	Current password

2. Enter the correct password, then click the "Current password" button. The following message appears.

🧠 Password	×	
Input new password.		

Continue	New Password	

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

4. A password dialog will appear again. Enter the same (new) password, then click the "New Password" button.

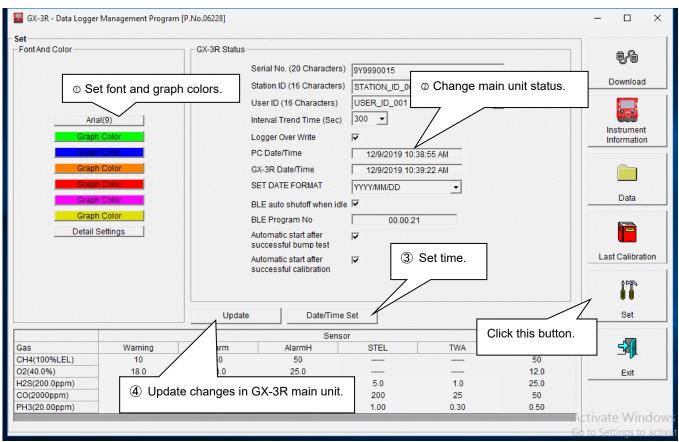
Change password	
Change new password.	
ОК	

Lastly, 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.

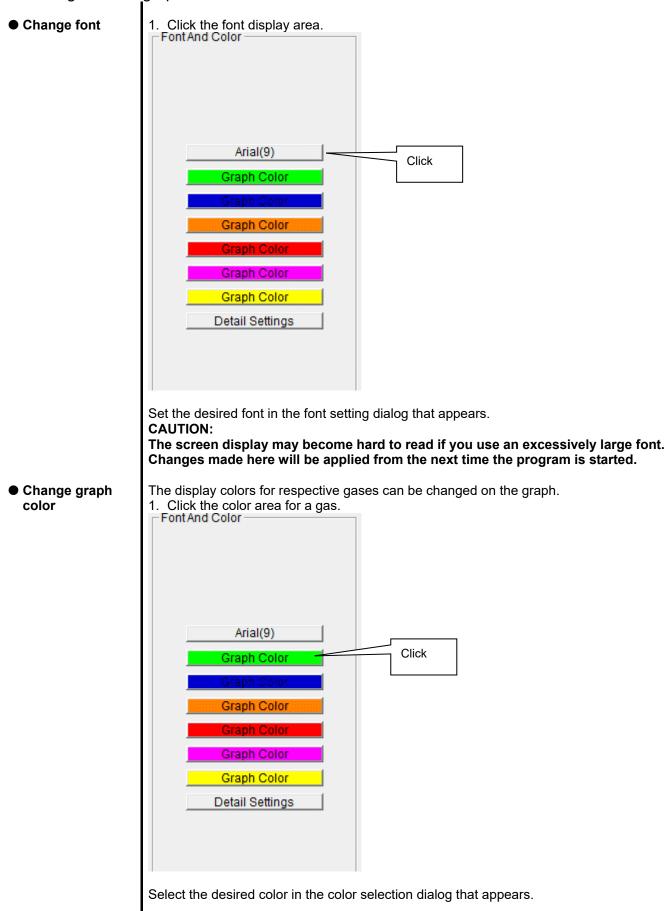


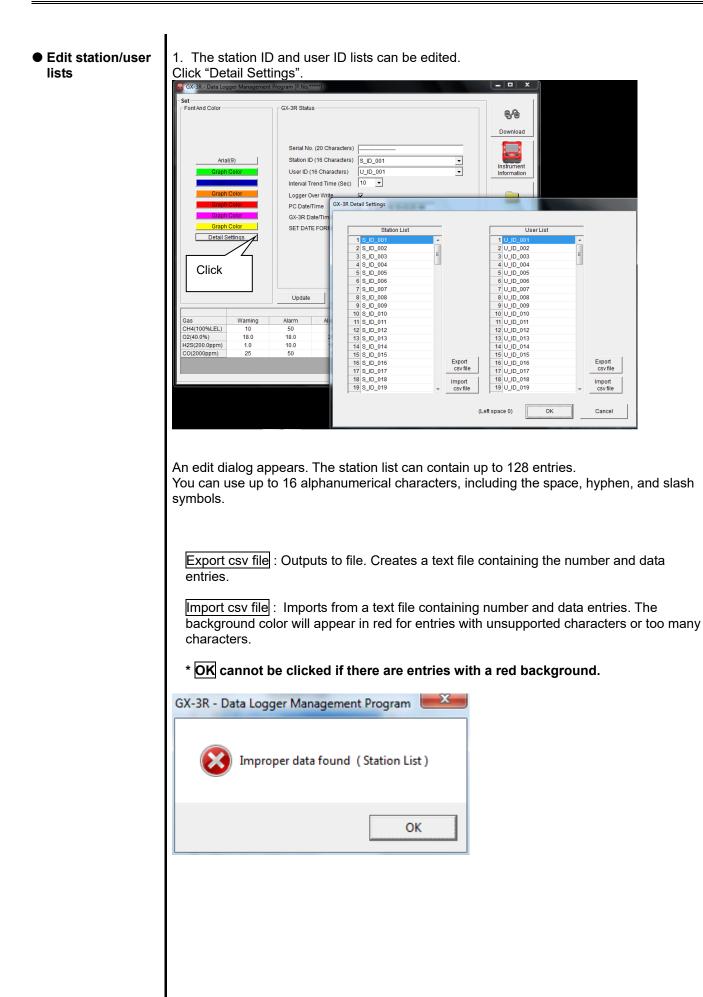
CAUTION: Data that has been set or changed must be sent to the GX-3R main unit by clicking the "Update" button.

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

- CAUTION: "BLE auto shutoff when idle" and "BLE Program No" are displayed only when connected with GX-3R Pro with BLE function.
- CAUTION: "Automatic start after successful bump test" and "Automatic start after successful calibration" may not be displayed depending on the software version.

① Setting font and graph colors





② Changing main unit status

Edit

2. Edit data in the status area a	s required.
Serial No. (20 Charactere)	010000015
Serial No. (20 Characters)	
Station ID (16 Characters)	STATION_ID_001
User ID (16 Characters)	USER_ID_001
Interval Trend Time (Sec)	300 -
Logger Over Write	
PC Date/Time	12/9/2019 10:39:07 AM
GX-3R Date/Time	12/9/2019 10:39:34 AM
SET DATE FORMAT	YYYY/MM/DD 👻
BLE auto shutoff when idle	
BLE Program No	00.00.21
Automatic start after successful bump test	V
Automatic start after successful calibration	V
Alarm Silence	
are within 16 characters. "Interval Trend Time" can be characters. Click the "Date/Time Set" button GX-3R main unit internal clock (When "BLE auto shutoff when ic minutes of inactivity after turning When "Automatic start after succ Pro will automatically start the set When "Automatic start after succ Pro will automatically start the set Check "Alarm Silence" to turn on	le" checkbox is selected, BLE function turns off in 5
CAUTION: Apart from clock se	annot be entered directly into the date/time boxes. etting, changing the status data here alone will not ata in the GX-3R main unit. Be sure to click "Update"

- update the same data in the GX-3R main unit. Be sure to click "Update" to update the changes in the main unit. CAUTION: "BLE auto shutoff when idle" and "BLE Program No" are displayed only
- when connected with GX-3R Pro with BLE function. CAUTION: "Automatic start after successful bump test" and "Automatic start after successful calibration" may not be displayed depending on the software version.

- ③ Updating changes in GX-3R main unit
- Notify of changes

1. Click the "Update" button after making changes.



Click the "Yes" button to send the changes to the GX-3R main unit to be stored. Click the "No" button to cancel update notification.

CAUTION: You cannot restore changed details. If "Update" has not yet been clicked, you can restore the changed details to the information on the main unit 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, if data is read in several times a day, the growing volumes of data may make it harder to find specific data. Unforeseen problems with the PC may also lead to loss of valuable data.

We recommend backing up data periodically to protect against such circumstances.

4-1. Data storage configuration details

Data is contained within the installed GX-3R program folder.

- 1) File name: GX3R.mdb File type: Microsoft JET 3.6 database file
- 2) File name: DataFile type: Folder. Individual trend data files are found within the corresponding year and month folders.

4-2. Backing up

Depending on the system configuration, we recommend copying data to a separate hard disk drive or external auxiliary storage device (for example, MO or CD-R).

When restoring data, copy the data to the location at which the GX-3R executable file is saved. This will allow data to be searched and viewed when the program is started.

5. Usage Precautions

Note the following precautions when using this program:

○ Confirm that the GX-3R is in a suitable location for receiving data. Normal communication is not possible if it is not in a suitable location.

[©] Avoid using similar functions on other applications at the same time when data is being received. (For example, using infrared communication with other applications while data is being received)

③ Do not forcibly shut down this program. (For example, using the Ctrl + Alt + Del operation) The program performs shutdown processing in which it saves configuration parameters for use the next time the program starts. Forcibly shutting down the program may cause problems the next time the program starts.

④ Do not directly modify or overwrite data files.

6. Troubleshooting

Symptoms	Cause	Corrective action
Communication is not possible.	The main unit is not in a suitable location. Obstacles are in the way.	Reposition the main unit.
	Other devices using infrared are present.	Turn off the other devices or take other measures to prevent interference.
An error occurs during	Disturbance light is present.	Remove any other devices that use infrared.
communication.	The GX-3R main unit moves during communication.	Make sure the GX-3R main unit does not move during communication.
The communication data is erroneous.	Disturbance light is present.	Remove any other devices that use or emit infrared.

If the problems persist even after taking the action described here, please contact Riken Keiki.

7. IrDA Specifications

7-1. Infrared communication

Infrared communication (IrDA protocol) is used for communicating with the main unit.

Check whether the PC being used supports infrared communication.

Ensure a direct line of sight between the PC communication port and the infrared communication port on the main unit. Remove any other sources of light interference.

CAUTION:

This program is able to communicate with the GX-3R main unit only in environments that support IrDA. Confirm that the PC being used has a built-in IrDA device that is currently usable.

An IrDA USB adapter is required if you are using a PC that lacks a built-in IrDA device (for example, most desktop PCs and some laptop PCs).

8. File Organization

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

8-1. Current directory immediately after installation

File name	Details
GX3R.exe	GX-3R program body
RkIrDA11.ocx	Infrared communication component
Filemove.avi	Animation file used during data reception

8-2. Current directory during operation

File name	Details
GX3R.exe RkIrDA11.ocx Filemove.avi	GX-3R program body Infrared communication component Animation file used during data reception
GX3R.ini GX3R.dat GX3R.mdb Data Serial.log	GX-3R initial setup file Data downloading file Database file (Microsoft Jet 3.6 database) Directory for saving trend data files Record of communication port details since the program was started (for investigation/maintenance use)

CAUTION: The files and directories listed below the double line are created after the program is started.

9. Software Function Specifications

Product name (Program name)	GX-3R Data Logger Management Program
Product model	
Executable file name	GX3R.EXE
Compatible operating systems	Microsoft Corporation Windows 7 Windows 8 Windows 10
Program size	Main program approx. 3 MB; libraries approx. 5.2 MB (Uses up to 40 MB of hard disk space during installation.)
Communication with main unit	Infrared (IrDA 1.1 protocol) compliant methodStandard communication settingsBaud rate57,600 bps (upper limit)Data bits8 bitsStop bit1 bitParityEven
Transmission time	Max. approx. 3 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

Manual Log

Rev.	Amendment	Issue data
0	First issue	2019/4/1
1	P.40 Initial password correction	20196/6
2	P40/43 Function added	2019/12/12
3	P43 Alarm Silence added	2022/3/15