

Portable Combustible Gas Detector

ompustible Gas Detection

NC-1000

Data Logger Management Program

SW-NC-1000

Operating Manual

Request for the Customers

- Read and understand this operating manual before using the management program.
- Use the management program in accordance with the operating manual.

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Preface

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The operation procedures and precautions mentioned in this operating manual apply only for the specified use of the program. We do not hold ourselves responsible for uses not described in this operating manual.

This operating manual will not explain the basic common operations of Microsoft Windows 7, Windows 8 and Windows 10, such as selecting commands or setting dialog boxes. First-time users of Windows should read the Windows manual in advance to learn common operations of the operating system.



This product is distributed on a special type of CD called "CD-ROM". Do not try to play this CD on a common audio CD player. Ignoring this warning may cause loud noise, resulting in hearing impairment or speaker damage.

CAUTION

Necessity of pointing devices This software requires pointing devices such as a mouse or touchpad. Keyboard-only operation is not supported.

1-1. Purpose and features of this program

This program is used to download data collected by the data logger function featured in NC-1000 to a PC to use the data effectively.

There are the following advantages in downloading data collected by the data logger function:

- Gathered data can be viewed in a list.
- Gathered data can be viewed in graph and chart formats.
- Graph and chart data can be printed and stored on paper.
- Past data can be stored.
- Manual copying of data is no longer necessary.
- Able to know quickly which unit needs calibration, and perform calibration automatically.
- Able to manage more than one unit easily.

Notice

- Copying or duplicating the content of this manual without our knowledge, in whole or in part, is prohibited unless otherwise specified in law.
- Due to the improvement of the product, the content of this operating manual might be amended without prior notice.
- It is necessary to agree with the Software License Agreement, separately provided, before using this product. Please consent that we assume you have agreed to this agreement when the package is opened.
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Installation and Uninstallation

2-1. Precautions on operating environment

This program can be used on Microsoft operating systems Microsoft Windows 7, Windows 8 and Windows 10. Please note that it cannot be used on other operating systems.

This program requires a maximum of 40 MB hard disk when it is installed. Moreover, on operation of the system, it requires hard disk capacity depending on the amount of data. Please use the program with sufficient disk capacity.

Precautions on handling the CD-ROM

- CD-ROM storage Do not store the CD-ROM in a place exposed to direct sunlight or a place with high temperature and humidity.
 CD-ROM drive to use
- CD-ROM drive to use Avoid using a slot-loading CD-ROM drive. The label attached on the CD-ROM might prevent CD-ROM from ejecting properly. Use a tray-type CD-ROM drive.

2-2. Software installation

Insert a disk which stores data of the program to a CD-ROM drive of a Windows-based PC. After a while, an installation screen will automatically start.

When the PC does not support the auto-start function of the CD-ROM, operate as follows:

- 1. From Explorer, open the CD-ROM drive.
- 2. Double-click the "setup.exe" file.

2-3.	Installation	procedure
------	--------------	-----------

t the setup gram	📴 NC-1000 - InstallShield Wizard
	Welcome to the InstallShield Wizard for NC-1000
	The InstallShield(R) Wizard will install NC-1000 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.
	The following screen is displayed. 같 NC-1000 - InstallShield Wizard
eement	License Agreement
	License Agreement
	Please read the following license agreement carefully.
	Please read the following license agreement carefully.
	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.
	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.
	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

Caution: Fully understand the license agreement before continuing with the installation of the software.

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Customer	Click the Next button to display the following screen.
Information	NC-1000 - InstallShield Wizard
	Customer Information
	Please enter your information.
	User Name:
	test
	Organization:
	InstallShield
	< Back Next > Cancel
	Click the Next button.
Destination	
Folder	🔁 NC-1000 - InstallShield Wizard
	Destination Folder
	Click Next to install to this folder, or click Change to install to a different folder.
	Install NC-1000 to:
	C:\Program Files\NC-1000\ Change
	InstallShield
	< Back Next > Cancel

Click the Next button.

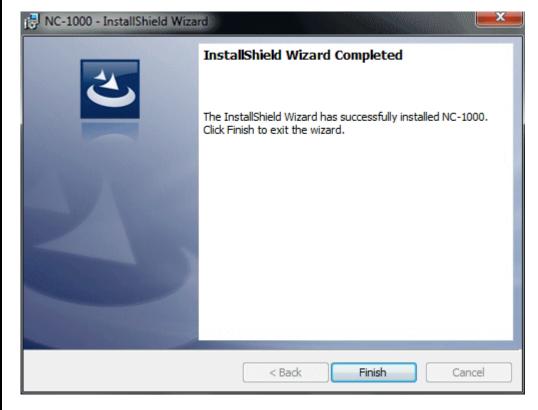
Start setup

Tł	e wizard is ready to begin installation.
e	you want to review or change any of your installation settings, click Back. Click Cancel to it the wizard. rrent Settings:
	etup Type:
	Typical
	estination Folder:
	C:\Program Files\NC-1000\
U	ser Information:
	Name: test
	Company:

Click the Next button to start installation.

• Complete

When the setup process is completed, the following screen is displayed.



The program can be used immediately after setup.

Save past data for reinstallation

Please note the following when reinstalling the software:

- 1. Uninstall the software before reinstallation.
- If the software is uninstalled after some operation, some files will remain on the PC. Of these files, NC1000.mdb is a database file. If past data needs to be saved, copy this file to a different location, and then delete the folder.

Precautions when installing on Microsoft Windows 7, Windows 8 or Windows 10

This software requires a library, which consists of files such as various drivers, installed on the Windows system. The files are installed automatically during the installation of the software.

When using Microsoft Windows 7, Windows 8 or Windows 10, installation of the system library requires administrator privileges.

In this case, follow the instructions to log in as an administrator, and then install the system library. After installation, a dialog prompts to restart the system. Restart, log on again as a general user, and install the application.

(Both the library and the application are installed by clicking setup.exe in the CD-ROM. Installation with an administrator privilege is required only when the required library is not installed in the system folder.)

When using the software under a network-connected environment

When installing on a network-connected PC running Microsoft Windows 7, Windows 8 or Windows 10, check the following points.

IrDA communication utilizes a subset of TCP/IP technology (the communication technology used for the Internet, etc.) and uses a special set of communication groups and IP addresses.

Because of this, some strong Internet security software might reject communication.

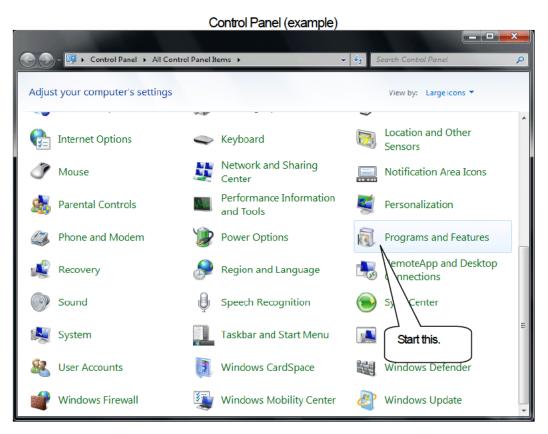
If possible, use a computer that is not connected to the network.

When using a computer connected to the network, use with sufficient considerations on security settings.

2-4. Uninstallation

Startup

To uninstall the software, from the Start menu of the Windows bar, click Settings and then start Control Panel.



From the Control Panel, double-click Add or Remove Programs to start.

Select NC-1000	When Add or Remove P	rograms is double-clicked, the fol	llowing screen is displayed.	
	🌏 🕞 🗸 🔝 « All Control Pane	el Items 🔸 Programs and Features	▼ <	5 P
	Control Panel Home	Uninstall or change a program		
	View installed updates	To uninstall a program, select it from the li	st and then click Uninstall, Change, or Repair.	
	off	Organize 👻 Uninstall Repair	8=	•••
		Name Microsoft .NET Framework 4 Microsoft .NET Framework 4 Hed	Publisher Microsoft Corporation Microsoft Corporation	Installed Or 3/5/2015 3/5/2015
		NC-1000 Paint Shop Pro 7 Silicon Laboratories CP210x USB to UAR	Jasc Software Inc Silicon Laboratories	3/6/2015 2/7/2014 1/9/2013
		Silicon Laboratories CP210x VCP Drivers for		1/9/2013 1/9/2013 1/7/2015
		<		
		Product version: 1.0.0.1 Size: 39.5 MB		
Start deletion	Select NC-1000 and clic	k the Remove button.		
	Programs and Features	-		1
	Are you sure	you want to uninstall NC-1000?		
	In the future, do	not show me this dialog box	Yes No	
	Click Yes to start the unin	nstallation.		
		"Do you want to remove the s Select No to All. Selecting Yes		

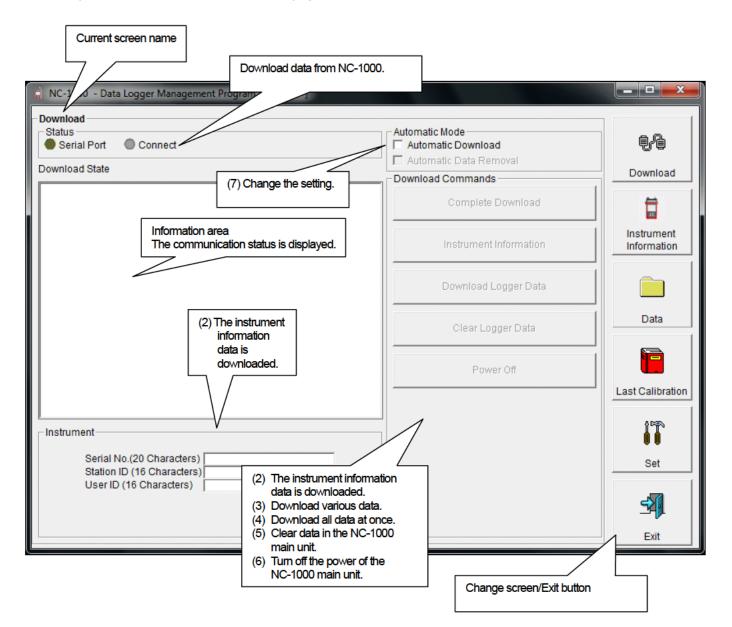
3

How to Operate

Double-click the NC-1000 desktop shortcut, or click the Start Menu, select Programs and click the NC-1000 program icon.

3-1. Download screen

After the splash screen, the download screen is displayed.



To perform data communication, place the NC-1000 main unit to an appropriate position, and with the program activated, turn on the power of the main unit. The program automatically judges whether or not communication is possible. If possible, the PC will be ready to receive the data.

Prepare the main unit	ve it to a position capable of com er placing it to a position capa t is placed at a position capabl	ble of	
	The message will be displayed as shown on the rig LCD screen of the NC-1000 main unit. \rightarrow (Due to the display resolution of NC-1000, the mess somewhat difficult to read.)	-	NIT
	The following message is displayed in the Informat	tion Area.	D <mark></mark>
	Download Status Serial Port Connect Download State	Automatic Mode	Download
	NC-1000Connection Successful.	Complete Download	
	This shows that the communication with main unit is	Instrument Information	
	established.	Ciear Logger Data	
		Power Off	Last Calibration
	Serial No.(20 Characters)		Set
	Station ID (16 Characters) User ID (16 Characters) Information and Po	wer Off buttons are enabled.	
			Exit
	CAUTION: If the content of the Information Area is different NC-1000 main unit, check the position of the under When communication is established, the Status are Status Serial Port Serial Port Connect Serial Port: Communication available: Green (PC port ready	nit, and then turn on the powe	

wnload trument	First, click the Instrument Information button to Download	download instrument information data.
ormation	<u>م</u>	
	Now Downloading	
	An animation is displayed during download.	
	When the Instrument Information data is down area is updated and the Download Logger Data a Instrument	
	Serial No.(20 Characters)	
	Station ID (16 Characters)	The content is
		The content is updated to show the status of the NC-1000 main unit.
	Download Commands	
	Complete Download	
	Instrument Information	The Download Logger Data and Clear Logger Data buttons are enabled.
	Download Logger Data	
	Clear Logger Data	
	Power Off	

(3) Download various data

Trend data

• Event data

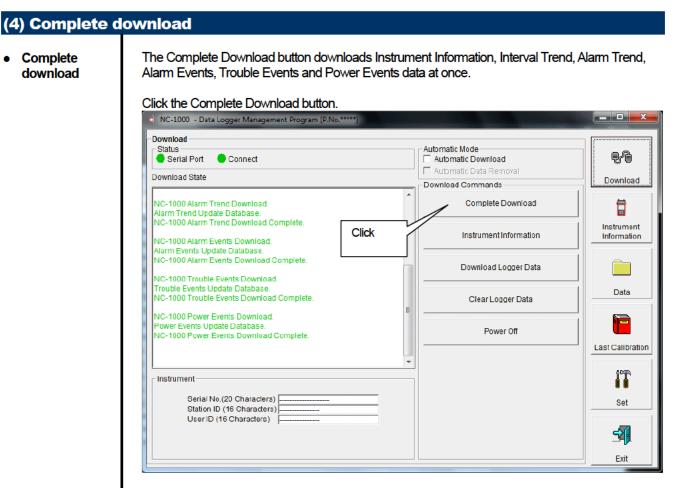
After the instrument information data is downloaded using the Instrument Information button, the Download Logger Data button is enabled.

ownload		
Status	Automatic Mode Automatic Download Automatic Data Removal Download Commands	Download
IC-1000Connection Successful. IC-1000 Instrument Information Download. IC-1000 Instrument Information Download Complete.	Complete Download	
	Instrument Information	Instrument Information
Click	Download Logger Data	
	Clear Logger Data	Data
	Power Off	
		Last Calibrati
Instrument		Î
Serial No.(20 Characters) Station ID (16 Characters) User ID (16 Characters)		Set
User ID (16 Unaracters)		5
		Exit

The download status is displayed in the information area.

CAUTION:

During download of each data, other data accesses are prohibited. Therefore, other download buttons and the Set button are disabled.



The download status is displayed in the information area.

CAUTION:

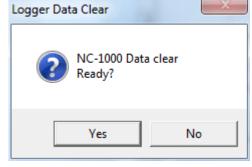
During download of each data, other data accesses are prohibited. Therefore, other download buttons and the Set button are disabled.

(5) Clear data in the NC-1000 main unit

• Data clear

Use the Clear Logger Data button to delete various data stored inside NC-1000.

Click the Clear Logger Data button.



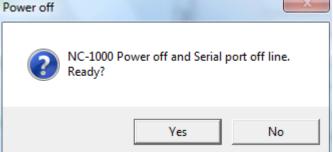
Click Yes to start clearing the data.

(6) Turn off the power of the NC-1000 main unit

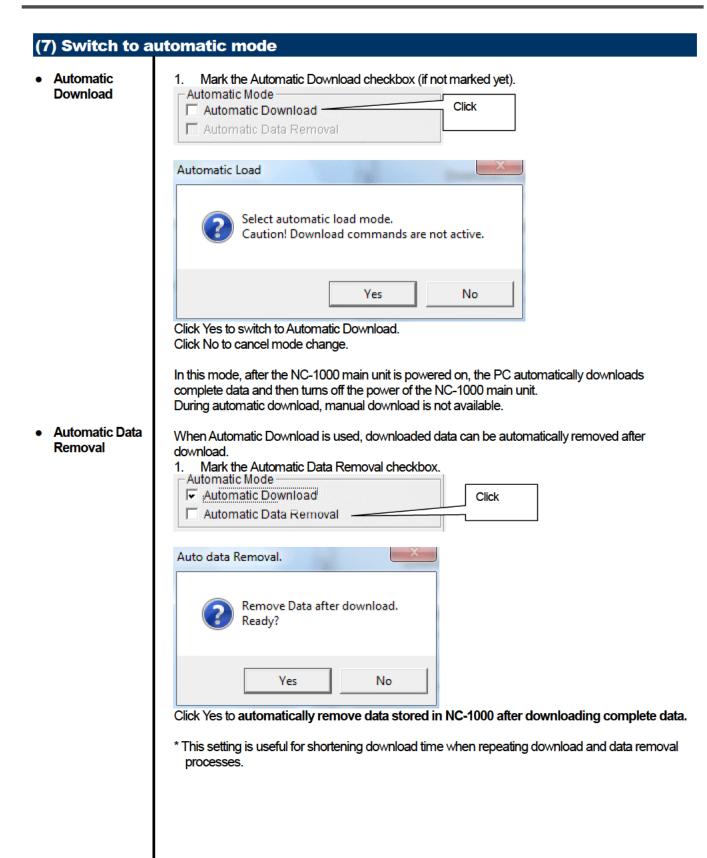
Power OFF

Use the Power Off button to turn off the power of the NC-1000 main unit and initialize the serial port of the PC.

1. Click the Power Off button.



Click the Yes button to start the power off process of the NC-1000 main unit. After the serial port of the PC is initialized, it will be reset to the data download ready status.

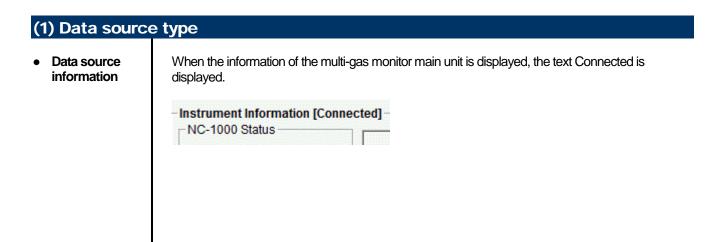


3-2. Instrument Information screen

Click the Instrument Information button at the right side of the screen to switch to the following screen. This screen lists instrument information data for the currently connected NC-1000 main unit.

(1) Data source type							_
	(2) Status in	formation (3) C	alibration hist	tory inform	nation	Click this butto	n
Data Logger Manageme	en fram [P.	No.*****]					
-Instrument Information [Connect	/		\rightarrow				
NC-1000 Status			Calibra	tion Histor	rv	/	
Serial No. (20 Characters)	Gas	Calib.Date	Before	After	A.Cal.	Cal.Due(Days)	
	H4(10000ppm	1/1/2008	0	0	5000	Now	Download
Station ID (16 Characters)							
ST-ID001							` 🛱
User ID (16 Characters)							_
			Last B	ump Test			Instrument Information
	Gas	Bump Test Date	Test Result	Cond	centration	Bump Test Due(i information j
CI	H4(10000ppm	4/1/2011		0	0	Now	_
							Data
		Warnin	ig and Alarm p	point			
Gas	Warning			Alarm			
CH4(10000ppm)	250			500			
							Last Calibration
	^						0 FR
	$\langle \rangle$						
(4) Senso	or alarm setpoi	int information					Set
							-√6
							Exit

CAUTION: This screen is read-only. Modification of data is not supported. -> See "3-6. Set screen". When the Instrument Information data is not downloaded, no data is displayed.



(2) Status information

Information details

Serial No, Station ID and User ID stored inside the main unit are displayed. CAUTION: This column is read-only. Modification of the data is not supported.

NC-1000 Status
Serial No. (20 Characters)
Station ID (16 Characters)
ST-ID001
User ID (16 Characters)

(3) Calibration history information Calibration Calibration History history details Calib.Date After A.Cal. Before Cal.Due(Days) Gas CH4(10000ppm 1/1/2008 0 0 5000 Now Contents: : Measured gas name (full scale) Gas Calib.Date : Date of last calibration : Concentration before last calibration Before : Concentration after last calibration/calibration failure After A.Cal. : Concentration for automatic calibration Cal.Due(Days) : Guaranteed operating time without another calibration (when the remaining time reaches 1 month, this item is displayed in red to indicate a warning) Last Bump Test Bump test history details Concentration Bump Test Due(Gas Bump Test Date Test Result CH4(10000ppm 4/1/2011 0 0 Now Contents: Gas : Measured gas name (full scale) Bump.Date : Date of last bump test Test Result Concentration : Last test result concentration Test Gas Concentration : Last test gas concentration Bump.Due(Days)

ays) : Guaranteed operation time without another bump test (when the remaining time reaches 1 month, this item is displayed in red to indicate a warning)

(4) Sensor alarm setpoint information

Details

	v	/arning and Alarm point	
Gas	Warning	Alarm	
CH4(10000ppm)	250	500	
Contents:			
	: Measured gas name		
Varning	: Concentration at first alarm setpoint		

Alarm

: Concentration at second alarm setpoint

3-3. Data screen

Click the Data button at the right side of the screen to switch to the following screen and view the list of downloaded data.

(1) Delete data	The data insid (1) Delete dat (2) View detai		Click this button		
NC-1000 Ata Logger Management Progra					
NC-1000 Data	Name S	erialNo StationID	UserID Date/Time	-	ŧ∕₽
I I III	iv04134237		3/4/2015 1:42:3		
03/15	iv04134322	<u></u>	3/4/2015 1:43:2	λ	Download
Interval Trend	iv04134327	<u></u>	3/4/2015 1:43:2	7	⇒ 1
SnapShot	iv04135259	ST-ID003	3/4/2015 1:52:5	<u>د</u> //	
Alarm Trend	iv04140659	ST-ID003	3/4/2015 2:06:5	<u>ا</u>	Instrument Information
	iv04140836	ST-ID003	3/4/2015 2:08:3	e	
	iv04151257	ST-ID003	3/4/2015 3:12:5	7 -	\ 📄 📗
	Property		Value		Data
	Name	iv04134237		'nl	
	Sampling Date/Time	3/4/2015 1:42:37 PM	to 3/4/2015 1:43:00 PM		
(3) Summary pane	Serial No.				
	Station ID			=	Last Calibration
	Down D				
	Data Count	4			1 m
	Interval Time (sec)	10	(40000====)		
· · · · · · · · · · · · · · · · · · ·	Gas(FullScale) Avg		(10000ppm) 0 ppm		Set
Serial No.	Max		0 ppm	-	
Station ID	Max Data/Tima		o ppin	Ŧ	
User ID		March Date			<u> </u>
		View Data			Exit
	(2) Vie	w details of data			

The operation of this screen is similar to the Windows Explorer. However, the following operations are not supported.

1. Rename data.

2. Move the data to another location.

Folders are displayed in an Explorer-like manner, with serial numbers, station IDs and User IDs displayed hierarchically in this order.

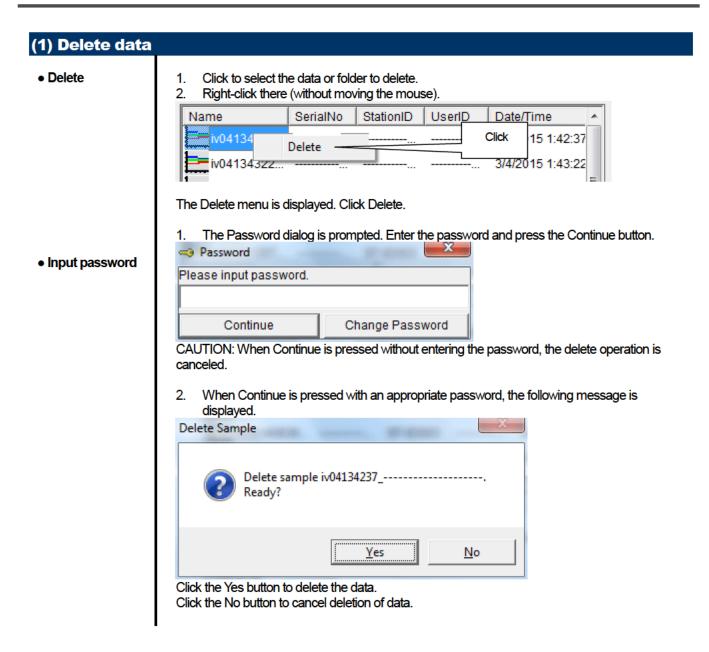
Folders and data names are formed under the following rules.

Folder name: 03/11 = Data of March 2011.

File name: 22111930_3EB = Interval trend, 22nd day, 11:19:30 (Start date and time of logging)

al26150419_3EB = Alarm trend, 26th day, 15:04:19 (Date and time of alarm occurrence)

The limit of data items to be stored in each folder depends on the memory limit of the PC. However, to maintain response speed, back up data files at least once a year. See "4. Data Maintenance".



(2) View details	of data
• View data details	 Click the data to be viewed in detail. Check that the summary of the data is displayed in the summary pane, and click the View Data button.
	or
	2. Double-click the data to be viewed in detail.
	For details on how to use the data details screen, see "3-4. Data View screen".
l l	

(3) Summary pane Details When the selected data is a normal data, the summary of the data is displayed. Interval trend Property Value Name iv04134237_---Sampling Date/Time 3/4/2015 1:42:37 PM to 3/4/2015 1:43:00 PM Serial No. Station ID User ID Data Count 4 10 Interval Time (sec) Gas(FullScale) CH4(10000ppm) Avg 0 ppm Max 0 ppm Max Date/Time 03/04 13:42:37 Warning 250 ppm Alarm 500 ppm Name : Data name Sampling Date/Time : Start and end of sampling date/time Serial No./Station ID/User ID : Status of the NC-1000 main unit Data Count : Number of sampled data Interval Time (sec) : Sampling interval (sec) Gas(FullScale) : Gas (full scale) Avg : Average value of gas Max : Maximum value of gas data Max Date/Time : Date/time when the maximum value is logged : Minimum value of gas data Min Min Date/Time : Date/time when the minimum value is logged Warning : First alarm setpoint Alarm : Second alarm setpoint Alarm events Gas Event DateTime 3/4/2015 5:03:12 PM CH4(10000ppm) WARNING CH4(10000ppm) ALARM 3/4/2015 5:03:12 PM 3/4/2015 3:15:20 PM CH4(10000ppm) WARNING 3/4/2015 3:15:20 PM CH4(10000ppm) ALARM 3/4/2015 1:54:03 PM CH4(10000ppm) ALARM WARNING 3/4/2015 1:53:48 PM CH4(10000ppm) DateTime : Date and time when the event occurred Gas : Naturally occurring or produced gas Event : Event type

Property		Valu	le	
lame	al04135348		-	
larm Date/Time	3/4/2015 1:53:48 F	M		
Serial No.				
Station ID	ST-ID003			
Jser ID				
Data Count	720			
Interval Time (sec)	5			
Gas(FullScale)	(CH4(100	(mqq00	
Value		250 p		
Warning		250 p		
Alarm		500 p		
			F	
terval Time (sec) as(FullScale) alue /arning larm	: Sampling inte : Gas (full scal : Concentratio : First alarm se : Second alarr	e) n when th etpoint		soccurred
Calibration history				
DateTime	Gas	Bef	ore	After
3/4/2015 5:02:57 PM	CH4(100ppm)	800	ppm	800 ppm
3/4/2015 3:14:45 PM	CH4(100ppm)	1000	ppm	1010 ppm
3/4/2015 3:14:25 PM	CH4(100ppm)	975	ppm	1000 ppm
3/4/2015 2:11:57 PM	CH4(100ppm)	0 p	pm	
3/4/2015 2:10:13 PM	CH4(100ppm)	0 p	pm	
3/4/2015 2:09:49 PM	CH4(100ppm)	0 p	pm	
3/4/2015 1:57:57 PM	CH4(100ppm)	1040	ppm	1000 ppm
3/4/2015 1:57:31 PM	CH4(100ppm)	0 p	pm	
Gas : Gas Before : Con	e and time when the centration before ca centration after calib	libration	curred	
DateTime	Gas/Body			Event
3/4/2015 5:04:23 PM	Body		Fail(FLO	
3/4/2015 2:10:13 PM	CH4(10000ppm)		Fail(Spai	-
3/4/2015 2:09:50 PM	CH4(10000ppm)		Fail(Spail	
3/4/2015 1:48:20 PM	Body		Fail(FLO	
////1/1900	Body		Fail(CLO	-
	Dody		an(OLO	-/
Gas/Body : Nat	e and time when the urally occurring or pi ent type			NC-1000 ma

DateTime	Gas	Test Result	Concentration	Judge
3/4/2015 5:02:32 F	CH4(100ppr	790 ppm	800 ppm	PASS
3/4/2015 3:13:50 F	CH4(100ppr	975 ppm	1000 ppm	PASS
3/4/2015 2:09:19 F DateTime	CH4(100ppr Date and time	0 ppm	10000 ppm	FAIL
Concentration	: Test result col : Test gas conc	centration		
ludge Snapshot	: Test judgmen	t		
-	Gas	t Test Result	Concentration	Judge
Snapshot	Gas		Concentration 800 ppm	Judge PASS
Snapshot DateTime	Gas CH4(100ppr	Test Result 790 ppm		
Snapshot DateTime 3/4/2015 5:02:32 F	Gas CH4(100ppr CH4(100ppr CH4(100ppr	Test Result 790 ppm	800 ppm	PASS

3-4. Data View screen

This screen displays the details of each data in a table or a graph.

Switch between table and	graph views (2) Output to a printer	(3) Save to a file (4) To view data sum	mary simultaneou
NC Data Logger M	anagement Program [P.No.*****]		
ata View(Interval Trend) -			
	vent Only Condensed Print	Export Summary Return	
No	Date/Time	CH4(10000ppm)	
1	3/4/2015 3:12:57 PM	AIR	
2	3/4/2015 3:13:04 PM	CAL ON	Download
3	3/4/2015 3:13:07 PM	0 ppm	
4	3/4/2015 3:13:17 PM	30 ppm	Ħ
5	3/4/2015 3:13:27 PM	350 ppm	
6	3/4/2015 3:13:37 PM	770 ppm	Instrument
7	3/4/2015 3:13:47 PM	920 ppm	Information
8	3/4/2015 3:13:57 PM	980 ppm	
9	3/4/2015 3:14:07 PM	1005 ppm	
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17	3/4/2015 3:15:20 PM	CAL OFF	
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19	3/4/2015 3:15:20 PM	WARNING	
20	3/4/2015 3:15:27 PM	1010 ppm	1 ⊂∓>
21	3/4/2015 3:15:37 PM	895 ppm	
22	3/4/2015 3:15:47 PM	500 ppm	
23	3/4/2015 3:15:50 PM	NORMAL	Set
24	3/4/2015 3:15:57 PM	135 ppm	
25	3/4/2015 3:16:07 PM	60 ppm	
26	3/4/2015 3:16:17 PM	15 ppm	-21
27	3/4/2015 3:16:21 PM	AIR	-7
28	3/4/2015 3:16:27 PM	mag 0	Exit

Event Only: Displays event data only.

Condensed: Displays data which shows some change in sample data.

CAUTION: Graph is not available when the number of samples is five or less.

In the table for the Alarm Trend data, the data where the alarm occurred is painted in red.

Among the event data, when the mouse cursor is pointed to WARNING, ALARM or OVER, the cursor changes to the following.

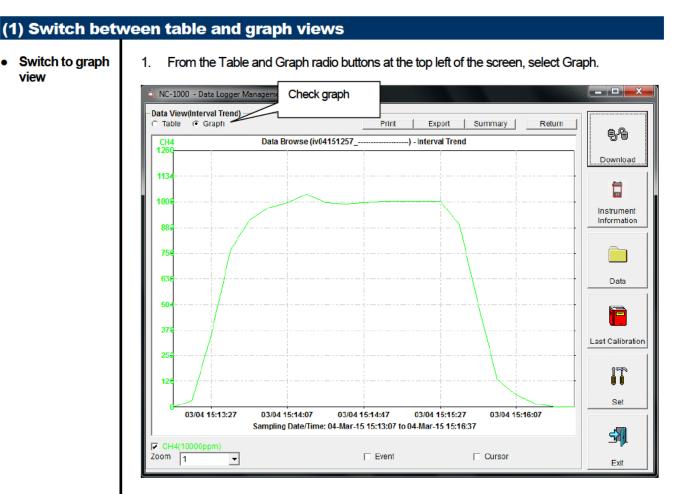
When in this state, clicking the cell triggers a search for the corresponding trend data. If it exists, it can be displayed in a separate screen.

		-
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In case of

ase of WARNING, ALARM, OVER	Data View(Alarm Trend)	Print	Export Summary Return
	Contraction of the second seco		
	No	Date/Time	CH4(10000ppm) +
	348	3/4/2015 3:14:15 PM	1050 ppm
	349	3/4/2015 3:14:20 PM	1050 ppm
	350	3/4/2015 3:14:25 PM	1000 ppm
	351	3/4/2015 3:14 30 PM	1000 ppm
	352	3/4/2015 3:14:35 PM	1000 ppm
	353	3/4/2015 3:14:40 PM	1010 ppm
	354	3/4/2015 3:14:45 PM	1010 ppm
	355	3/4/2015 3:14:50 PM	1010 ppm
	356	3/4/2015 3.14:55 PM	1010 ppm
	357	3/4/2015 3 15:00 PM	1010 ppm
	358	3/4/2015 3.15:05 PM	1010 ppm
	359	3/4/2015 3:15:10 PM	1010 ppm
	360	3/4/2015 3:15:15 PM	1010 ppm
	361	34400163352074	1010 birm
	362	3/4/2015 3:15:25 PM	1010 ppm
The concernate correct displayed in cose of MADNING	363	3/4/2015 3:15:30 PM	1010 ppm
The separate screen displayed in case of WARNING,	364	3/4/2015 3:15:35 PM	1010 ppm
	> 365	3/4/2015 3:15:40 PM	740 ppm
ALARM, OVER.	366	3/4/2015 3:15:45 PM	590 ppm
,	367	3/4/2015 3 15:50 PM	320 ppm
Click the Return button to turn off the screen.	368	3/42015 3 15:55 PM	215 ppm
	369	3/4/2015 3 16:00 PM	60 ppm
	370	3/4/2015 3:16:05 PM	100 ppm
	371	3/4/2015 3:16:10 PM	45 ppm
	372	3/4/2015 3 16:15 PM	20 ppm
	373	3/4/2015 3:16:20 PM	5 ppm
	374	3/4/2015 3 16 25 PM	0 ppm
	375	3/4/2015 3 16:30 PM	0 ppm -

* In the table for the Alarm Trend data, the data where the alarm occurred is painted in red.



Use checkboxes and a combo box at the bottom of the screen to perform various operations on the view.

CH4(10000ppm)				
Zoom 1		F Event	Cursor	

Checkboxes at the top of the screen (gas name): Select these boxes to toggle on/off each gas data.

Zoom combo box: Use this box to select the magnification ratio of the horizontal axis, according to the number of samples.

Event checkbox: Select this box to display event information markers, such as alarms. Cursor checkbox: Select this box to display a cursor on the graph.

CAUTION:

The maximum value of the graph's vertical axis is automatically adjusted based on the following definitional equations.

When the maximum value of data without event is "x", if full scale is 10 or above, the equation will be $Ymax = {int(x / 10) + 1} * 10$. If full scale is below 10, the equation will be $Ymax = {int(x) + 1}$, where "int" means to round off the decimal part.

CAUTION:

A graph is not displayed unless there are five or more normal concentration data. Data that contains only events cannot be drawn as a graph, because no concentration data is included.

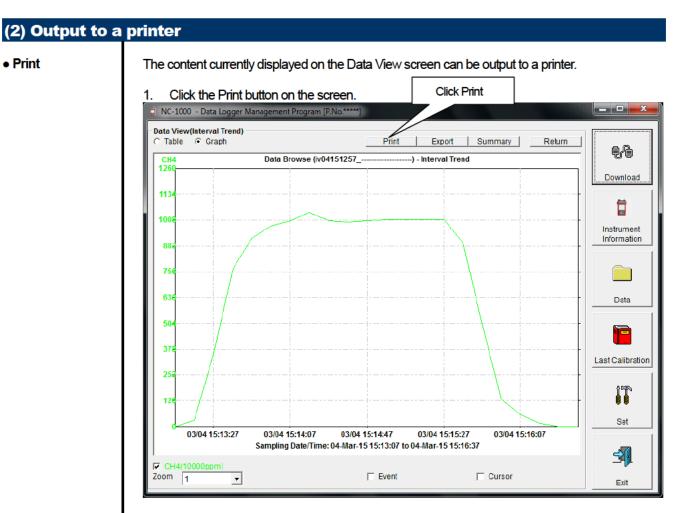
Among the event data, when the mouse cursor is pointed to WARNING, ALARM or OVER, the cursor changes to the following. When in this state, clicking the graph triggers a search for the corresponding trend data. If it exists, it can be displayed in a separate screen.

≫

In case of WARNING, ALARM, OVER

The separate screen displayed in case of WARNING, ALARM, OVER. Click the Return button to turn off the screen.

VersiAlare Breat) Sole 4 Graph	Prof. 1	Doot Summary
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The Printer List screen is displayed. Select the printer to use and click the OK button.

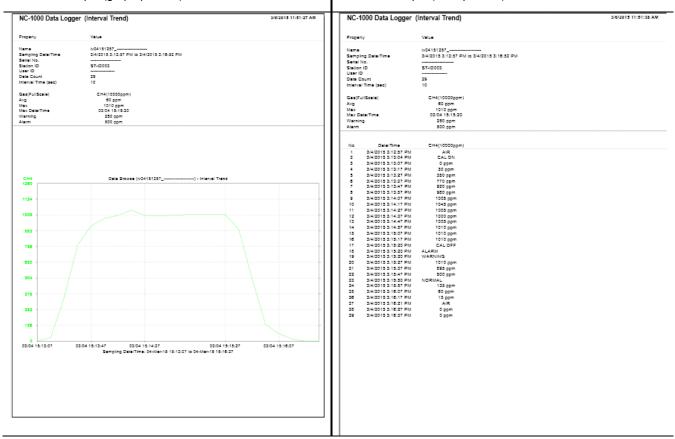
Printer List			x
Printer	Microsoft	t XPS Document Writer	•
	ок	Cancel	

Click the OK button to start the printout.

Click the Cancel button to cancel the printout and return to the previous screen.

Printout example (graph printout)

Printout example (table printout)

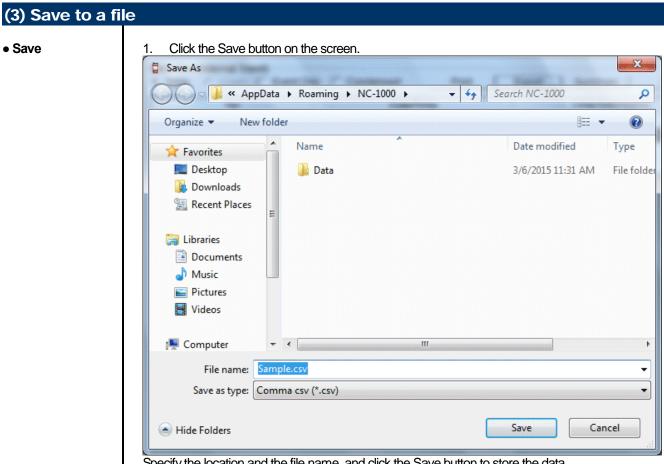


IC-1000 Data Log	ger (Calibr	ation History)	3/8/2015 11:51:57 AM	NC-1000 Data Logger (Alar	m Event)		3/6/2015 11:52:12 AN
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ser ID at Download	3/5/2015 11:25	32 AM		User ID Last Download	2(5/2015 11:39:51 A		
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Printout example (trouble events)	Printout example (snapshot)
NC-1000 Data Logger (Trouble Event) SINIZUTE TITESSISH AM	NC-1000 Data Logger (Snap Shot) 218/2015 11:52:47 AM
Property Value	Property Value
Serial No Sistem ID ST-ID003	Name 2004134355
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No Dele/Time Gazi@ody Eveni	Station ID 51-I0001 User ID
1 3/4/2015 5/3/23 PM Body Fai(FLCW) 2 3/4/2015 2:10:13 PM CH4(10000ppm) Fai(Span)	No Detailine I-C4H10(10002ppm)
3 314/2015 2:09:50 PM CH4(10000ppm) Fail(Span) 4 314/2015 1:45:20 PM Body Fail(FLOW)	1 3H(2015 1H3:55 PM 0 ppm
5 1/1/1900 Body Fax(CLC.)	1 1

Notes on printer settings

- (1) Detailed printer settings depend on the printer used. Please see the operation manual of the printer.
- (2) This program does not support Print Area setting. Therefore, usage such as printing only part of the selected data is not possible.
- (3) Copies can be changed only when the setting is available from the printer. When the setting is changed in this way, the change affects other applications subsequently used. (For example, when Copies is changed to 2, a printout operation from another application might also result in two copies.)
 If Print Setting is changed in this program, when a printout is required from another application, check Print Setting of that application.



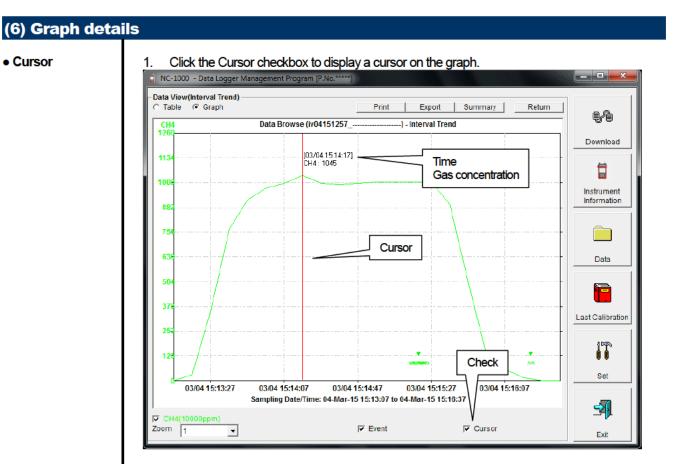
Specify the location and the file name, and click the Save button to store the data. Click the Cancel button to cancel the save operation.

CAUTION:

When a table is displayed, the content of the table is saved in the Excel CSV format. When a graph is displayed, the bitmap of the graph is saved.

Data View(interval Trend) Condensed Print Export Summa Return Property V04151257	📋 NC-1000 - Data Logo	ger Management Program (P.No.*	screen. ****]	Click		_ D X
Property Value			Print	Export Summary Retu	ım	
Sampling Date/Time 9/4/2015 3:12:57 PM to 3/4/2015 3:16:52 PM Serial No. ST-ID003 Station ID ST-ID003 User ID Instrument Data Count 29 Interval Time (sec) 10 CH4(10000ppm) Instrument Interval Time (sec) CH4(10000ppm) 1 3/4/2015 3 CAL ON Oppm 4 CAL ON Data 5 3/4/2015 CH4(10000ppm) 6 3/4/2015 CAL ON Data 6 3/4/2015 CH4(10000ppm) Instrument Instrument 7 3/4/2015 CH4(10000ppm) Instrument Instrument 7 3/4/2015 CH4(10000ppm) Instrument Instrument 8 3/4/2015 CH4(10000ppm) Instrument Instrument 9 3/4/2015 Siti.13:7 PM 900 ppm Instrument 9 3/4/2015 Siti.14:7 PM 1005 ppm Instrument 11 3/4/2015	Property		Value		A	
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	895 ppm				
	500 ppm				
NORMAL					
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	0 ppm				
	o ppm				
FAIL WARNING	: Gray	Fault First alarm			
ALARM NORMAL	: Red : Deep green	Second alarm Recovery from	n the above state)	
OVER	: Light red	Over full scale	e		
1					

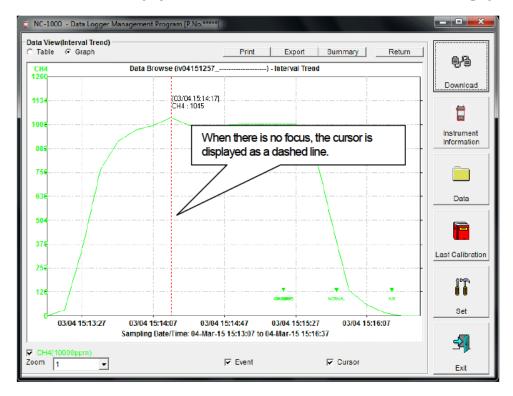


Use the left and right keys to move the cursor left and right, and the up and down keys to move the time and concentration views up and down.

The Shift key can be used together to speed up the cursor. **CAUTION:**

Cursor operation is not available when a window irrelevant to the program is opened and the focus is moved outside the graph area.

The cursor itself is displayed as a dashed line. To restore focus, click inside the graph area.



3-5. Last Calibration screen

The expiration dates of the data downloaded in the past can be checked. The bump test is displayed similarly.

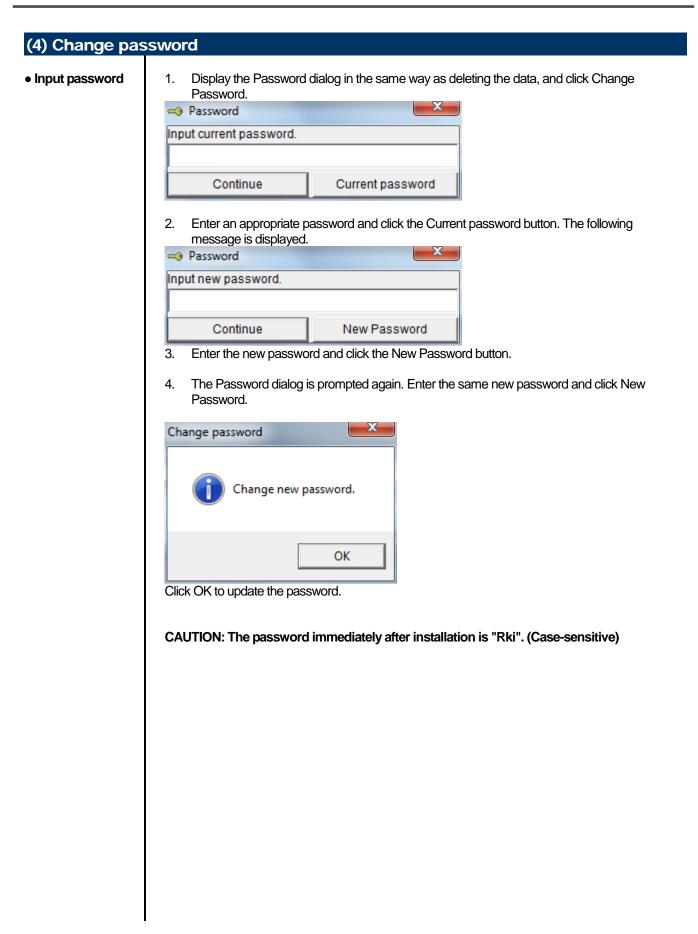
	(1) Char	nge displayed contents		(2) Output to a prin	nter	
📋 NC-1000 - D	ata Loo	nagement Program [P.No	o.*****]			
-Last Calibration						
Need Calibra	ition	C Calibration Date	C Calibratio	on Record	Print	ŧ.
No. SerialN	0	UserID		CH4	Last Download	
1			ST-ID001	1/1/2008	3/6/2015 11:57:34 AM	Download
		(3) Delete data (4) Change passwor	rd			Instrument Information
-Last Bump Tes						Data
Need Bump		C Bump Test Date	C Bump Te		Click this button	
No. SerialN	0	UserID		CH4	Last Download	
1			ST-ID001	4/1/2011	3/6/2015 11:57:34 AM	Last Calibration
		About	bump test			Set
						Exit

CAUTION: This table is read-only. Modification of the table is not supported.

€N	leed Ca	alibration-		Gamerator		00	alibration Recor	d	Print
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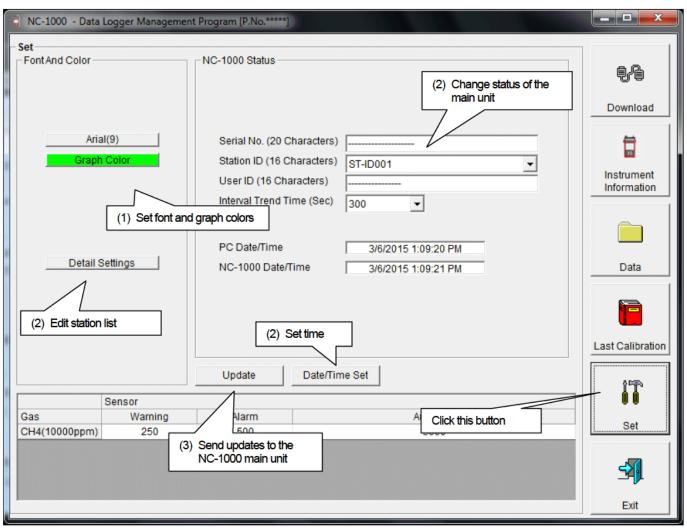
(2) Output to a printer • Print The last calibration date of each unit can be printed out using Need Calibration or Calibration Date. The Printer List screen is displayed. Select the printer to use and click the OK button. Printer List 8 Printer Microsoft XPS Document Writer • OK Cancel 3/6/2015 12:00:01 PM NC-1000 Data Logger (Last Calibration) StationID ST-ID001 ST-ID003 Last Download 3/6/2015 11:57:34 AM 3/5/2015 11:39:37 AM No. SerlalN 1 -----2 -----SerialNo UserID CH4 1/1/2008 3/4/2015 5:02:57 PM _____

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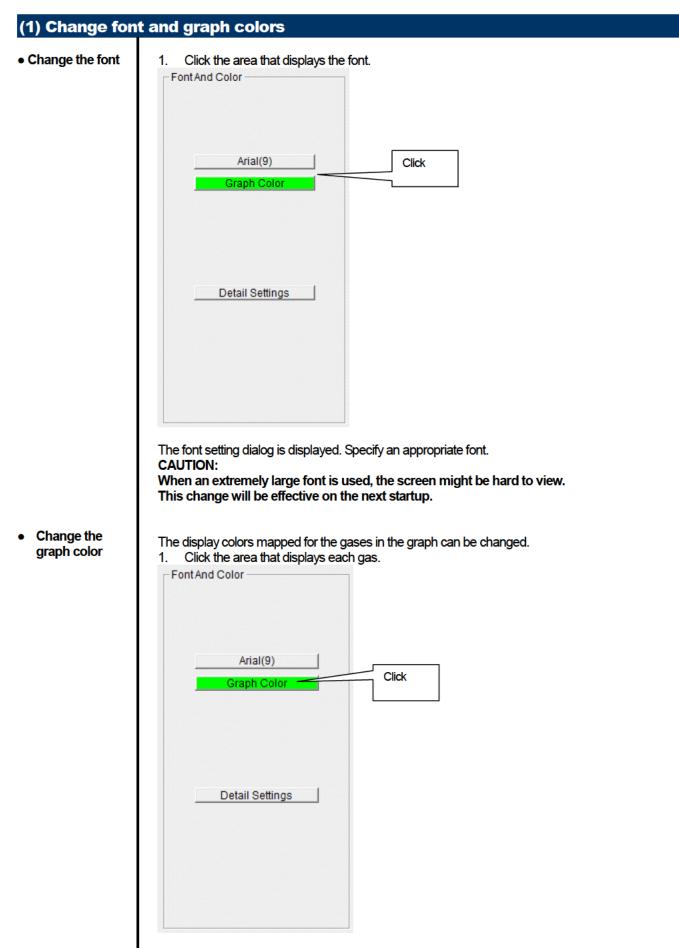


3-6. Set screen

In this screen, display settings of the screen and the detailed settings of the unit can be specified.



CAUTION: The data specified and/or changed must be sent to the NC-1000 main unit using the Update button. CAUTION: The font setting is applied on the next startup.



The color selection dialog is displayed. Specify an appropriate color.

Click Detail Settings.					
📋 NC-1000 - Data Logger N	Management Program [P.No	D.*****]			
- Set-	NC-1000 Detai	il Settings			- 10
Font And Color					
					r
			Station List	t	
			ST-ID001	<u>^</u>	
Arial(9)			ST-ID002 ST-ID003	=	
Graph Color			ST-ID003		
			ST-ID004		
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Click					
			ST-ID014		
			ST-ID015		Export
			ST-ID016		csv file
			ST-ID017		001110
			ST-ID018		Import csv
Sensor		19	ST-ID019	-	file
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The edit dialog is displaye	ed. The station list con	tains sta	ations up to Num		ontorod
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Change

2.	In the status area,	change the desired data.
	IC 4000 Otatua	

Serial No. (20 Characters)	
Station ID (16 Characters)	ST-ID001
User ID (16 Characters)	
Interval Trend Time (Sec)	300 -
PC Date/Time	3/6/2015 1:10:14 PM
NC-1000 Date/Time	3/6/2015 1:10:15 PM
Update Date/Tim	e Set

The contents of Serial No. (20 Characters) and User ID can be changed. Interval Trend Time (Sec) and Station ID (16 Characters) can be selected and changed from the list.

The Date/Time Set button can be used to align the internal clock of the NC-1000 main unit (NC-1000 Date/Time) to the set time of the PC (PC Date/Time). **CAUTION: The date/time areas cannot be entered directly.**

CAUTION: The settings of the NC-1000 main unit are not modified except Date/Time Set by this change. Make sure to click Update to send the change request process to the main unit.

(3) Send updates to the NC-1000 main unit

Send updates

1. Modify the places to change and click the Update button.



When the Yes button is clicked, the changes are sent to the NC-1000 main unit and stored there. When the No button is clicked, update is canceled.

CAUTION: The changes cannot be undone. Before clicking Update, it is possible to revert to the data stored in the main unit by clicking the Instrument Information button on the Download screen to download the instrument information data.

Data Maintenance

Depending on usage (such as loading data many times in a single day), the number of data might increase drastically. In such a case, it might be difficult just to find the desired data. In addition, there is a possibility of losing valuable data caused by an unexpected trouble of the PC.

To prepare for such unexpected events, a periodical backup of the data is recommended.

4-1. Details of data storage structure

Data is stored in the installation folder of the NC-1000 program.

- 1) File name: NC1000.mdb File type: Microsoft Jet 3.6 database file
- File name: Data File type: Folder Trend data files are organized under year/month folders

4-2. Backup

Although it depends on usage, we recommend the data to be copied to another hard disk device or an auxiliary storage device (such as an MO drive or CD-R drive).

To restore data, copy it to the installation folder of the NC-1000 executable. The program searches for data on startup and the data will be available to view.

Operating Precautions

When using the program, take sufficient considerations on the following points:

- (1) When downloading data, check that NC-1000 is placed at an appropriate position. If the position is not appropriate, download cannot be performed properly.
- (2) When downloading, avoid similar operations using another application. (For example, performing IR communication during data download)
- (3) Do not kill the program (for example, by using Ctrl + Alt + Del). This program saves setting parameters on the shutdown process to prepare for the next startup. Therefore, if the program is killed, the next startup might fail.
- (4) Do not modify a data file directly.

Troubleshooting

Symptoms	Causes	Solutions
Communication is not possible.	The position of the main unit is inappropriate. An obstacle is in the way.	Change the position of the main unit.
	There is another device that uses IR.	Turn off the other devices, or prevent its interference.
Error occurs during	There is a scattered light outside.	Eliminate the device that uses IR.
communication.	The NC-1000 main unit moved during communication.	Do not move the unit during communication.
Something is wrong in the communication data.	There is a scattered light outside.	Eliminate the device that uses IR.

If an error still persists despite the above actions, please contact RIKEN KEIKI.

IrDA Specifications

7-1. About infrared communication

Communication with the main unit is performed via infrared communication (IrDA protocol).

Check that the computer to be used is capable of infrared communication.

Also, place the units so the infrared communication port of the main unit and the communication port of the PC directly face each other, and prevent interference of other lights.

CAUTION:

This program can establish communication with the NC-1000 main unit only in an environment with IrDA enabled. Check that the PC has a built-in IrDA device, and that it is enabled.

If the computer does not have a built-in IrDA device (this applies to most desktop PC and some notebook PC), use a separately sold IrDA-USB converter.

7-2. Display of communication ready status

At the start of communication, the operating system recognizes existence of an infrared device and displays an icon on the task bar.

By that icon, the communication status can be understood to some extent.

CAUTION: The displayed content might differ depending on the operating system and IrDA driver settings.

7-2-1. Task bar icon when the operating system recognizes NC-1000



The IrDA symbol is displayed, and when the cursor is pointed over the symbol, the message "NC-1000 is in range" is displayed.

7-2-2. Task bar icon when communication between the data logger program and the NC-1000 main unit is in progress



The IrDA symbol changes to an animation icon that shows communication, and when the cursor is pointed over the symbol, the message "Wireless link with NC-1000 at xxxx bps" is displayed.

* "xxxx" shows communication rate, which is normally 57600 bps. Depending on the environment, the rate might drop to a value around 38400 bps.

CAUTION:

Due to overhead in internal process of the NC-1000 main unit and/or the data logger program, there is little difference in overall communication time if the communication rate is 38400 bps or above. This is because a relatively long time is required to create data within the NC-1000 main unit and to analyze the downloaded data by the data logger program.

File Structure

This chapter explains the details about file contents at installation and during operation.

8-1. Current directory immediately after installation

File name	Details
NC1000.exe	NC-1000 main unit
RklrDA11.ocx	Infrared communication component
RKComm.ocx	Serial communication component
Filemove.avi	Animation file that shows that data download is in progress

8-2. Current directory during operation

File name	Details
NC1000.exe	NC-1000 main unit
RklrDA11.ocx	Infrared communication component
RKComm.ocx	Serial communication component
Filemove.avi	Animation file that shows that data download is in progress
NC1000.ini	NC-1000 initialization file
NC1000.dat	File for data downloading
NC1000.mdb	Database file (Microsoft Jet 3.6 database)
Data	Save directory for trend data files
Seriallog.log	Recording of data that flowed through communication port since startup of the program (for
	investigation and maintenance)

CAUTION: Files and directories below the double line are created after startup of the program.

Software Specifications

Name of product (name of program)	NC-1000 Data Logger Management Program
Model	SW-NC-1000
Executable file name	NC1000.EXE
Supported OS	Microsoft
	Windows 7
	Windows 8
	Windows 10
Program capacity	Main program: Approx. 3 MB/Library: Approx. 5.2 MB
	(Uses up to 40 MB of disk space on installation)
Communication of the	Infrared (conforming to IrDA 1.1 protocol)
main unit	Standard communication settings
	Baud rate: 57600 bps (maximum)
Transfer time	Maximum 3 minutes (standard communication setting, with maximum amount of data)
Medium	One CD-ROM
Package contents	Operating Manual (this document)
-	Product warranty and registration card
	License agreement