



Portable Toxic Gas Monitor SC-8000 Data Logger Management Program SW-SC-8000

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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¹ Preface

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 2000, Windows XP, Windows Vista and Windows 7, 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.

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 SC-8000 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.
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- Utilization of the software other than for intended purposes is prohibited. If the operating manual is ignored when using the software, or the software is altered in any way, the safety and quality of the product might not be maintained. We will not be liable for any accidents caused by these conditions.

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Installation and Uninstallation

2-1. Precautions on operating environment

This program can be used on Microsoft operating systems Windows 2000, Windows XP, Windows Vista and Windows 7. 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
- 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_2	Instal	lation	proced	lura
2-3.	instai	auon	proced	

program Welcome to the InstallShield Wizard for SC-8000 Welcome to the InstallShield Wizard for SC-8000 The InstallShield (R) Wizard will install SC-8000 on your computer. To continue, click Next. WARNING: This program is protected by copyright law and international treaties. WARNING: This program is protected by copyright law and international treaties. Click the Next button. The following screen is displayed. The following screen is displayed.		After inserting the CD-ROM and starting setup.exe, the following screen is displayed
 Accept the license agreement Accept the following screen is displayed. Click the Next button. The following screen is displayed. Click the Next button. The following screen is displayed. Click the Next button. The following screen is displayed. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following locense agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please READ THIS SOFTWARE LICENSE AGREEMENT Please READ THIS SOFTWARE LICENSE AGREEMENT Please READ THIS SOFTWARE LICENSE, IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE WILLY BEFORE USING THE EGNING DBY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE WILLY BEFORE USING THE EGNING DBY THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE. THE YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE.	Start the setup	
• Accept the license agreement • Accept the license agreement • Click the Next button. The following screen is displayed. • License Agreement Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT Please read the following license agreement carefully. RIKEN KEIKI SOFTWARE AND (IF APPLICABLE) RETURN THE SOFTWARE YOU DARE AGREEING TO BE BOUND BY THE TERMS OF THISL LICENSE. IF YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE THE RING OF THISL LICENSE. JOH YOU DO NOT AGREE TO THE HERME OF THE SOFTWARE TO THE PUVCHASE LOCATION.	program	
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 Accept the license agreement Click the Next button. The following screen is displayed. SC-8000 - InstallShield Wizard 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. Eccept the terms in the license agreement 		WARNING: This program is protected by copyright law and international treaties.
 Accept the license agreement The following screen is displayed. 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. 		< Back Next > Cancel
 Accept the license agreement SC-8000 - InstallShield Wizard 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. 		Click the Next button.
license agreement 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.	• • • •	The following screen is displayed.
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	-	😥 SC-8000 - InstallShield Wizard
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.	agreement	
InstallShield		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.

Click the Next button to continue the installation, or the Cancel button to abort the

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

	ext button to display the following s	
	- InstallShield Wizard	×
	er Information enter your information.	
<u>U</u> ser Na test	ime:	
Organiz	ation:	
Install t	his application for:	
	Anyone who uses this computer (all Only for mo (SOET)	users)
	Only for <u>me</u> (SOFT)	
InstallShield		
lick the No	ext button.	k Next > Cancel
岁 SC-8000		k Next > Cancel
BC-8000	ext button.	
SC-8000 Destinat	ext button. - InstallShield Wizard ion Folder	
Destinat	ext button. - InstallShield Wizard ion Folder xt to install to this folder, or click Change to Install SC-8000 to:	install to a different folder.

• Start setup

eady to Install the Progra	m	
The wizard is ready to begin ir	nstallation.	
If you want to review or chan exit the wizard.	ge any of your installation setting	gs, <mark>click Back. Click Cancel t</mark>
Current Settings:		
Setup Type:		
Typical		
Destination Folder:		
C:\Program Files\SC-8000)(
User Information:		
Name: test		
Company:		
allShield		
	< Back	Install Cance

Click the Install button to start installation.

• Complete

SC-8000 - InstallShield Wizard Completed

InstallShield Wizard Completed

The InstallShield Wizard has successfully installed SC-8000.

Click Finish to exit the wizard.

< Back

Finish

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

The program can be used immediately after setup.

Cancel

Save past data for reinstallation

Please note the followings when reinstalling the software:

- 1. Uninstall the software before reinstallation.
- 2. If the software is uninstalled after some operation, some files will remain on the PC. Of these files, SC8000.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 Windows 2000/XP/Vista/7

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 Windows 2000, XP, Vista or 7, 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 installed on a network-connected PC running Windows 2000/XP/Vista/7, check the following points.

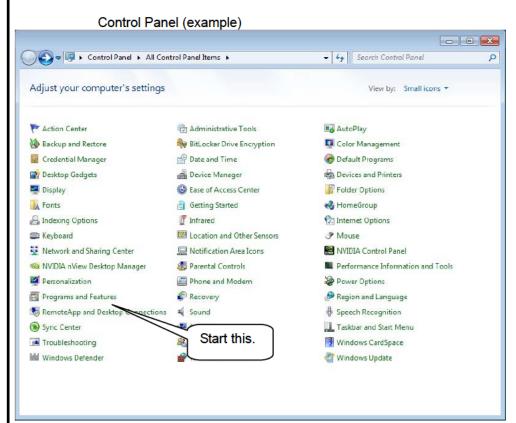
IrDA communication utilizes a subset of TCP/IP technology (the communication technology used for the Internet, etc.) and uses a special set of communication groups and IP addresses. Because of this, some strong Internet security software might reject communication.

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

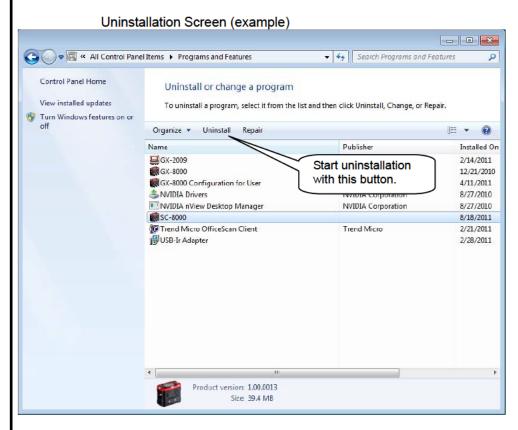
• Startup

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



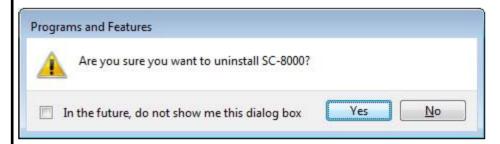
From the Control Panel, double-click Add or Remove Programs or Uninstall a Program to start.

• Select SC-8000 When Add or Remove Programs or Uninstall a Program is double-clicked, the following screen is displayed.



• Start deletion

Select SC-8000 and click the Remove button.



Click Yes to start the uninstallation.

CAUTION: A message, "Do you want to remove the shared file?" might be displayed during uninstallation. Select No to All. Selecting Yes to All might affect other applications.

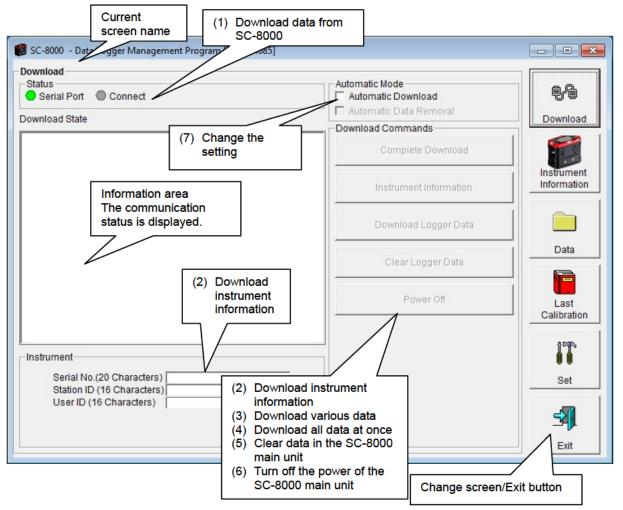
3

How to Operate

Double-click the SC-8000 desktop shortcut, or click the Start Menu, select Programs and click the SC-8000 program icon.

3-1. Download screen

After the splash screen, the download screen is displayed.



To perform data communication, place the SC-8000 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.

* When communicating, place the SC-8000 main unit and the IrDA port of the PC face-to-face at a distance under 10 cm.

CAUTION:

Communication is not performed when the SC-8000 main unit is performing a measurement. To perform communication when measurement is in progress, turn off the SC-8000 main unit, and then turn on the SC-8000 main unit with the program activated.

(1)	Download d	ata	from SC-8000
• Pre	pare the main		
uni	ť	1.	Start the software.

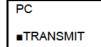
- 1. Start the software.
 - 2. With the SC-8000 main unit powered off, move it to a position capable of communication.
 - 3. Turn on the SC-8000 main unit.

CAUTION:

Make sure to turn on the power of SC-8000 after placing it to a position capable of communication.

Communication will not be established when it is placed at a position capable of communication with the power turned on.

The message will be displayed as shown on the right on the LCD screen of the SC-8000 main unit. → (Due to the display resolution of SC-8000, the message will be somewhat difficult to read.)



The following message is displayed in the Information Area.

Download Status Serial Port 💙 Connect	Automatic Mode	1.
Download State	Automatic Data Removal Download Commands	Download
SC-8000Connection Successful.	Complete Download	1
This shows that the communication with	Instrument Information	Instrument Information
SC-8000 is established.	Download Logger Data	
	Clear Logger Data	Data
	Power Off	Last Calibration
Instrument		it
	ownload, Instrument Power Off buttons	Set
are enabled.		S
		Exit

CAUTION:

If the content of the Information Area is different from above, turn off the power of the SC-8000 main unit, check the position of the unit, and then turn on the power again.

When communication is established, the Status area changes as follows.

Status Serial Port 😑 Connect	
Serial Port:	
Communication available:	Green (PC port ready)
Communication not available: I	Red
Connect:	_
	Gray
Communication in progress:	Green

(2) Download instrument information
 Download

instrument	First, click the Instrument Information butt	ton to download instrument information data.
information	Download	
	Now Downloading	
	An animation is displayed during downloa	ıd.
		downloaded, the content of the Instrument nload Logger Data and Clear Logger Data
	Instrument	
	Serial No.(20 Characters) SC-8000-	
	Station ID (16 Characters) ST-ID000 User ID (16 Characters)	
	USERID (10 Characters)	The content is updated to show the status of the SC-8000 main unit.
	Download Commands	1
	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.

SC-8000 - Data Logger Management Program [P.No.04085]		
Download Status Serial Port Connect	Automatic Node Automatic Download	Download
	Download Commands	
SC-8000Connection Successful. SC-8000 Instrument Information Download. SC-8000 Instrument Information Download Complete.	Complete Download	
	Instrument Information	Instrumen
	Download Logger Data	
Click	Clear Logger Data	Data
	Power Off	Last
Instrument		
Serial No.(20 Characters) SC-8000-NO6 Station ID (16 Characters) ST-ID000		Set
User ID (16 Characters)		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.

(4) Complete download

Complete
 download

The Complete Download button downloads Instrument Information, Interval Trend, Alarm Trend, Alarm Events, Trouble Events, and Power Events data at once.

Click the Complete Download button	Click the	Complete	e Download	button.
------------------------------------	-----------	----------	------------	---------

- Status	Automatic Mode	89
Download State	Automatic Data Removal	Download
SC-8000 Snap Shot Data Download.	Download Commands	
SC-8000 Shap Shot Data Download	Complete Download	
SC-8000 Alarm Trend Download.	ck	Instrumen
SC-8000 Alarm Trend No Data.	Instrument Information	Informatio
SC-8000 Alarm Events Download.		
SC-8000 Alarm Events No Data.	Download Logger Data	
SC-6000 Trouble Events Download.		Data
SC-8000 Trouble Events No Data.	Clear Logger Data	
SC-8000 Power Events Download.		
Power Events Update Database. SC-8000 Power Events Download Complete.	E Power Off	Last
SC-6000 Fower Events Download Complete.		Calibration
	-	
Instrument		1 P
Serial No.(20 Characters) SC-8000-NO6 Station ID (16 Characters) ST-ID000		Set
User ID (16 Characters)		
		51
		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.

- (5) Clear data in the SC-8000 main unit
- Clear data

Use the Clear Logger Data button to delete various data stored inside SC-8000.

Click the Clear Logger Data button.	
Logger Data Clear	23
SC-8000 Data clear	

Ready?

Yes



No

Click Yes to start clearing the data.

- (6) Turn off the power of the SC-8000 main unit
- Power OFF

Use the Power Off button to turn off the power of the SC-8000 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 SC-8000 main unit. After the serial port of the PC is initialized, it will be reset to the data download ready status.

(7) Switch to auAutomaticDownload	1. Mark the Automatic Download checkbox. (If not marked yet.)
	Automatic Mode
	Automatic Download Click
	T Automatic Data Removal
	Automatic Load
	Select automatic load mode. Caution! Download commands are not active.
	<u>Y</u> es <u>N</u> o
	Click Yes to switch to Automatic Download. Click No to cancel mode change.
 Automatic Data Removal 	In this mode, after the SC-8000 main unit is powered on, the PC automatically downloads complete data and then turns off the power of the SC-8000 main unit. During automatic download, manual download is not available.
	 When Automatic Download is used, downloaded data can be automatically removed after download. 1. Mark the Automatic Data Removal checkbox.
	Automatic Mode Click Image: Automatic Download Image: Automatic Data Removal
	Auto data Removal.
	Remove Data after download. Ready?
	Yes No
	Click Yes to automatically remove data stored in SC-8000 after downloading complete data.
	 * This setting is useful for shortening download time when repeating download and data removal processes.

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 SC-8000 main unit.

Warning and Alarm point Data Gas Warning Alarm STEL TWA CO(300ppm) 100 200 (4) Alarm setpoint information Set	(1) Data source type SC-8000 - Da ogger Mana Instrument Information [Conn SC-8000 Status Serial No. (20 Characters) SC-8000-NO6 Station ID (16 Characters) ST-ID000 User ID (16 Characters)	e I Gas	Calibration histo information Calibration Histo Before After	Click this butt	on
CO(300ppm) 100 200 Last (4) Alarm setpoint information Set	Gas	Warning	 	TWA	
(4) Alarm setpoint information		-			
Evit		Alarm setpo			Calibration

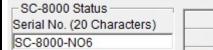
CAUTION: This screen is read-only. Modification of data is not supported. -> See "3-6. Set screen". When the Instrument Information data is not downloaded, no data is displayed.

(1) Data source type

Data source information

When the information of the multi-gas monitor main unit is displayed, the text Connected is displayed.

Instrument Information [Connected]



- (2) Status information
- Information details

SC-8000 Status Serial No. (20 Characters)	
SC-8000-NO6	
Station ID (16 Characters) ST-ID000	
User ID (16 Characters)	
Serial No, Station ID, and Use CAUTION: This column is re	

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.**

(3) Calibration history information Calibration history details

		Calibra	ation Histo	ory	
Gas	Calib.Date	Before	After	A.Cal.	Cal.Due(Days)
CO(300ppm)	4/14/2011			20	Now
etails: as: alib.Date: efore: fter: .Cal.: al.Due (Days)	Measured gas n Date of last calib Concentration be Concentration at Calibration gas o Suaranteed ope remaining time r indicate a warnir	oration efore last ca fter last calil concentration rating time eaches 1 m	bration/ca on without a	alibration Inother ca	libration (when t

(4) Alarm setpoint information

Details

		Warning and	d Alarm point	
Gas	Warning	Alarm	STEL	TWA
CO(300ppm)	100	200	1220	

Details:

Gas:	Measured gas name
Warning:	Concentration at first alarm setpoint
Alarm:	Concentration at second alarm setpoint
STEL:	Concentration at STEL alarm setpoint
TWA:	Concentration at TWA 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.

		Click tr	ns bu	tton
(1) Delete data	listed. (1) De (2) Vie	ta inside the folder is		
sc-6000 Data	Name Se	erialNo StationID UserID Date/Time C-800 ST-ID000 8/17/2011 2:2	11:	6/6
BumpTest Calibration History 08/11	Spagererererererererererererererererererer			Download nstrument nformation
	Property	Value iv17142107_SC-8000-NO6	•	Data
(3) Summary pane		8/17/2011 2:21:07 PM to 8/17/2011 2:27:05 PI SC-8000-NO6 ST-ID000	E	Last Calibration
	Data Count Interval Time (sec) Gas(FullScale) Avg	35 10 CO(300ppm) 0 ppm		Set
☐ Serial No. ☐ Station ID ☐ User ID	Max	0 ppm		-
		View 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.

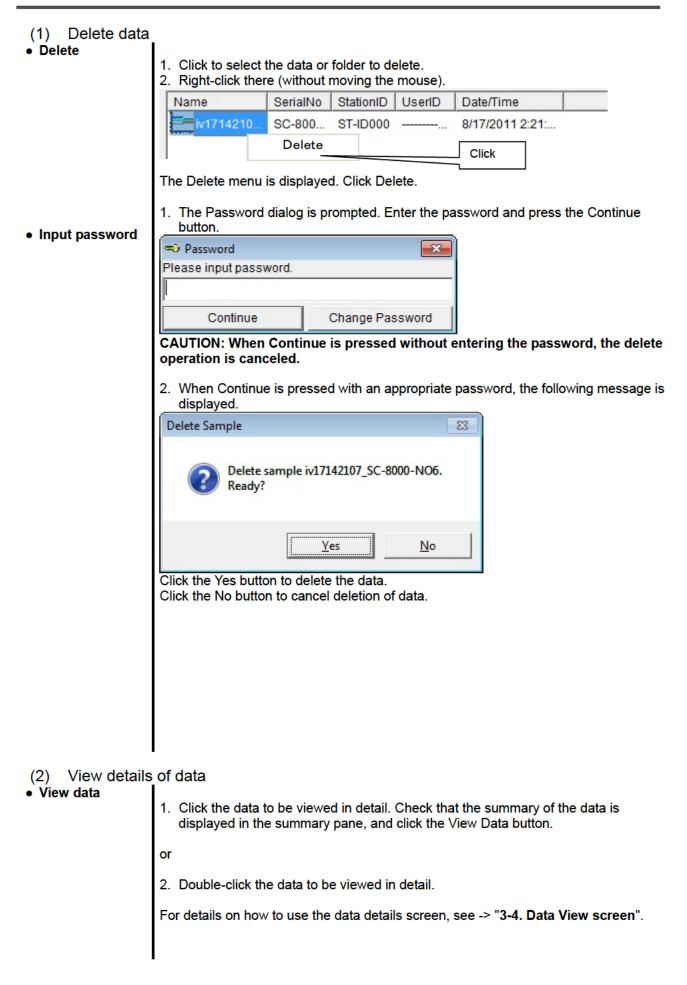
Folders and data names are formed under the following rules.

Folder name: 12/09 = Data of December 2009.

File name: iv15152831_12345678901234567890 = Interval trend, 15th day, 15:28:31 (Start date and time of logging)

al18144738_12345678901234567890 = Alarm trend, 18th day, 14:47:38 (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".



(3) Summary pane • Details

When the selected data is a normal data, the summary of the data is displayed.	
Interval trend	

lame	Value
	iv17142107_SC-8000-NO6
Sampling Date/Time	8/17/2011 2:21:07 PM to 8/17/2011 2:27:05 PM
Serial No.	SC-8000-NO6
Station ID	ST-ID000
Jser ID	
Data Count	35
nterval Time (sec)	10
Gas(FullScale)	CO(300ppm)
wg	0 ppm 0 ppm
lax lax Date/Time	08/17 14:21:07
lin lin	*****
lin Date/Time	****
Varning	100 ppm
Jarm	200 ppm
STEL	*****
WA	****
ame:	Name of data
as(FullScale): vg: ax: ax Date/Time: in: in Date/Time: ⁄arning: arm:	Gas (full scale) Average value of gas Maximum value of gas data Date/time when the maximum value is logged Minimum value of gas data Date/time when the minimum value is logged First alarm setpoint Second alarm setpoint STEL alarm setpoint
TEL: WA:	TWA alarm setpoint

Alarm trend Property		Value	
Name	al02002801	-	
Alarm Date/Time	1/2/2009 12:28:01 AM		
Serial No.			
Station ID			
User ID			
Data Count	720		
nterval Time (sec)	5		
Gas(FullScale)		CO(75.0ppm)	
Value		29.0 ppm	
Warning		25.0 ppm	
Alarm		50.0 ppm	
STEL		****	
TWA		****	
lame:	Name of data		
larm Date/Time:	Date/time whe	en the alarm occurred	
Serial No./Station ID/Us			
Data Count:	Number of sa	•	
nterval Time (sec):	Sampling inte	rval	
Gas(FullScale):	Gas (full scale	e)	
/alue:		when the alarm is occ	curred
Varning:	First alarm set		
larm:	Second alarm		
STEL:	STEL alarm se		
ΓWA:	TWA alarm se	tpoint	
DateTime	Gas	Before	After
8/17/2011 11:28:28 AM	CO(300ppm)	0 ppm	
8/17/2011 11:26:57 AM	CO(300ppm)	0 ppm	
8/17/2011 11:26:57 AM	CO(300ppm)		
8/17/2011 11:26:57 AM DateTime:	CO(300ppm)	0 ppm	
8/17/2011 11:26:57 AM DateTime: Gas:	CO(300ppm) Date and time Gas	^{0 ppm} when the event occur	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM pateTime: Gas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
a/17/2011 11:26:57 AM pateTime: bas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM pateTime: Gas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM pateTime: Gas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM pateTime: Gas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Before:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
a/17/2011 11:26:57 AM pateTime: bas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
a/17/2011 11:26:57 AM ateTime: as: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
8/17/2011 11:26:57 AM DateTime: Gas: Gefore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	
a/17/2011 11:26:57 AM pateTime: bas: efore:	CO(300ppm) Date and time Gas Concentration	^{0 ppm} when the event occur before calibration	

Alarm events DateTime Gas Event 4/4/2011 1:12:22 PM CO(150ppm) WARNING CO(150ppm) 3/30/2011 4:25:27 PM WARNING 3/30/2011 4:14:12 PM CO(150ppm) WARNING 3/23/2011 3:42:40 PM WARNING CO(150ppm) 3/17/2011 2:04:12 PM CO(150ppm) WARNING 3/4/2011 3:25:38 PM WARNING CO(150ppm) 3/3/2011 5:10:45 PM CO(150ppm) WARNING 2/23/2011 4:11:55 PM CO(150ppm) WARNING 24 Datas Total DateTime: Date and time when the event occurred Gas: Naturally occurring or produced gas Event: Event type Trouble events DateTime Gas/Body Event 6/7/2011 10:49:55 AM Body Fail(Li-ion) 6/7/2011 10:48:53 AM Body Fail(Li-ion) 6/7/2011 10:47:07 AM Body Fail(Li-ion) 6/7/2011 10:40:29 AM Body Fail(Li-ion) 6/6/2011 3:07:59 PM Body Fail(Li-ion) 5/30/2011 1:18:45 PM Body Fail(Li-ion) 5/28/2011 2:40:04 PM Body Fail(Li-ion) 5/23/2011 9:56:13 AM Body Fail(Li-ion) Total 23 Datas DateTime: Date and time when the event occurred Naturally occurring or produced gas, or the SC-8000 Gas/Body: main unit (Body) Event: Event type Bump test DateTime Gas Test Result Concentration Judge 8/17/2011 2:16:10 PM CO(300ppm) 14 ppm 20 ppm PASS 8/17/2011 2:14:42 PM CO(300ppm) 14 ppm 20 ppm PASS 8/17/2011 2:12:51 PM CO(300ppm) 40 ppm FAIL 14 ppm 8/17/2011 2:12:09 PM CO(300ppm) 14 ppm 40 ppm FAIL 8/17/2011 11:27:57 AM CO(300ppm) 0 ppm 200 ppm FAIL 8/17/2011 11:26:27 AM CO(300ppm) 0 ppm 200 ppm FAIL Date and time when the event occurred DateTime: Gas: Gas Test Result: Test result concentration Concentration: Test gas concentration Judge: Test judgment

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		w data summary aneously
- Data Logger Man	agement Program [P.No.04		
Data Vew(Interval Trend) —			
• Table C Graph 🔲 Ev	ent Only Condensed Print	Export Summary Return	
No	Date/Time	CO(75.0ppm)	
1	1/2/2009 12:27:06 AM	Fail(BIAS)	Download
2	1/2/2009 12:28:01 AM	WARNING	
3	1/2/2009 12:28:04 AM	NORMAL	
4	1/2/2009 12:28:04 AM	Fail(FLOW)	
5	1/2/2009 12:28:05 AM	WARNING	Instrument
6	1/2/2009 12:28:05 AM	NORMAL	Information
7	1/2/2009 12:28:32 AM	NORMAL	
8	1/2/2009 12:28:32 AM	Fail(FLOW)	
9	1/2/2009 12:28:34 AM	NORMAL	
			Data
			Last Calibration
			1
			Set
			S
<	III		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.

		Ŧ
-	H	+

In case of WARNING, ALARM, OVER

	TC-800 - Date L	agge Management Program (P.No.DAIRS)		Translate Sec.
	data Viewijitarm 1 19 Table 11 d		et East Sursmay Adum	3
	540	Date/Time	00(75.0ppm)	÷.
	360	12/2009 12:27 OE AM	0.0 ppm	
	201	12/2009 12/2 ¹ 11 AM	0.0 gpm	
	157		10 ppm	
	363	10/2009 12/21/21 48	0.0 ppm	
	254		0.0 ppm	
	- 268	10/2009 12:27:31 AM	0.0 ppm	
	214	12/2009 12:27:36:444	0.0 pp.m	
	307	12/2006 12/2 ⁺ #1 AM	0.0 gpm	
	- 314	12/2009 12/27 46 AM	0.0 ppm	
The separate screen displayed in case	168	10/2009 12:27:51 AM 10/2009 12:27:58 AM	0.0 april	
The separate screen displayed in case		12/2009 12:27:58:48	tik 5 opre	
	- P.	10/2008 12 20 06 444	415 ppm	A
of WARNING, ALARM, OVER.		40-0500 +0-05 +1 AM	41.5 apres	
		10/2009 12 21 10 44	46.5 cpm	
		12/2010 12 21 21 444	45.0 ppm	
Click the Return button to turn off the	200	10/0000 12 21 21 444	25.5 mm	
		100000 1000 1000	8-0 ppm	
	26.0	10/2009 12/20 20 404	2.8 ppm	
screen.	349	10/00/00 17/01 41 444	0.0 pers	
SCIECII.	379	10/2009 12/25 46 464		
1	3/1			
	372	10/2008 12/21/56 AM		
	373	10/0000 12 21:01 444		+

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

Switch between table and graph views

 Switch to graph view

1. From the Table and Graph radio buttons at the top left of the screen, select Graph.

and the second second second second	Check graph					
SC-8000 - Data Logger Mar	L	5]				
ata View(Interval Trend) Table ⓒ Graph		Print	Export S	ummary	Return	ŧ.Ŀ
co 10	Data Browse (iv1714)	2107_SC-8000-NO	6) - Interval Trend			<u> </u>
10						Download
9						
8						Instrument
7						Information
6						
5						Data
4						
3						Last
2						Calibration
1-[08/17.14:21:17]						1 PP
CD:0						00
				0	08/17 14:26:	Set
08/17 14:21:17 Sa	mpling Date/Time: 17	-Aug-11 14:21:17 to	17-Aug-11 14:26:5	7	08/17 14:26:	
Sal CO(300ppm)	mpling Date/Time: 17	-Aug-11 14:21:17 to		7 Z Cursor	08/17 14:26:	s.
Sal CO(300ppm)	mpling Date/Time: 17				08/17 14:26:	
Sal CO(300ppm)	nd a combo I	i⊽ Event	F	Cursor	n to perfe	Exit
sar coc(300ppm) porm 1 • e checkboxes a erations on the v CO(300ppm) om 1	nd a combo l view.	i⊽ Event	ottom of the	Cursor	n to perfe	Ext
sar coc(300ppm) porm 1 • e checkboxes a erations on the v coc(300ppm) om 1 eckboxes at the	nd a combo l view. • • bottom of	v Event	nottom of the	Cursor	n to perfe	Ext Dorm various
satisfies a screen (gas na	nd a combo l view. • • bottom of ame): S	v Event box at the b Select these	Pottom of the	Cursor e screer	n to perfe F	Ext Ext Cursor Cursor h gas data.
sar coc(300ppm) porm 1 • e checkboxes a erations on the v coc(300ppm) om 1 eckboxes at the	Ind a combo b view. bottom of ame): S	v Event box at the b Select these Jse this box	Pottom of the Event boxes to to to select the	e screer	n to perfo F n/off each ification	Exit Exit Cursor A gas data. ratio of the
satisfies a screen (gas na	nd a combo l view. bottom of ame): S h	Event box at the b Select these Jse this box	bottom of the Event boxes to to to select the kis, according	Cursor e screer oggle on ne magn	n to perfo voff eacl ification numbe	Cursor h gas data. ratio of the r of samples
satisfies a service of the service o	nd a combo l view. bottom of ame): St h S	Event box at the b Select these Jse this box	bottom of the Event boxes to to to select the kis, accordin ox to displa	Cursor e screer oggle on ne magn	n to perfo voff eacl ification numbe	Exit Exit Cursor A gas data. ratio of the
satisfies a service of the service o	e bottom of me): S	Event box at the b Select these Jse this box porizontal ax Select this b uch as alar	bottom of the Event boxes to to to select the kis, accordin ox to displa	e screer	n to perfe , n/off eacl ification e numbe informa	Cursor crm various Cursor h gas data. ratio of the r of samples tion markers

on the following definitional equations.

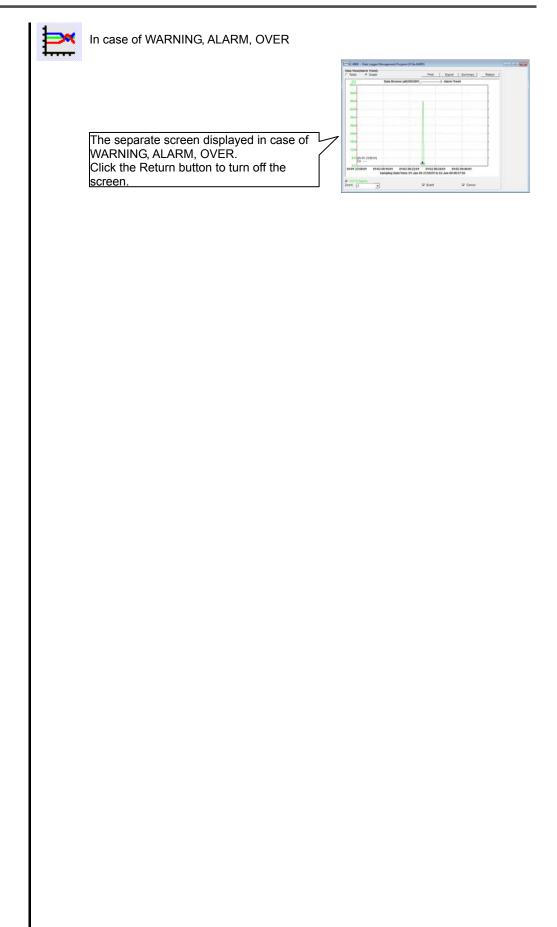
In the case that "x" is the maximum value of data without an event, when the full scale is above 10, Y max = { int (x / 10) + 1 } * 10; when the full scale is below 10, Y max = {int (x) + 1}, where "int" means to round off the decimal part.

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 alarm trend data. If it exists, it can be displayed in a separate screen.



1. Click the Print bu	utton on the scr	een.	Click Print	
🗭 SC-8000 - Data Logger Man	agement Program (P.No.04	4085]		
C Table G Graph		Print	Export Summary	Return
CO [Data Browse (iv17142107	_SC-8000-NO6) - Int	erval Trend	
0				
3				
8				
7				
6				
5				
4				
3				
2				
2				
1			(08)CO	17-14:26:57 - : 0
08/17 14:21:17				08/17 14

The Printer List screen is displayed. Select the printer to use and click the OK button.

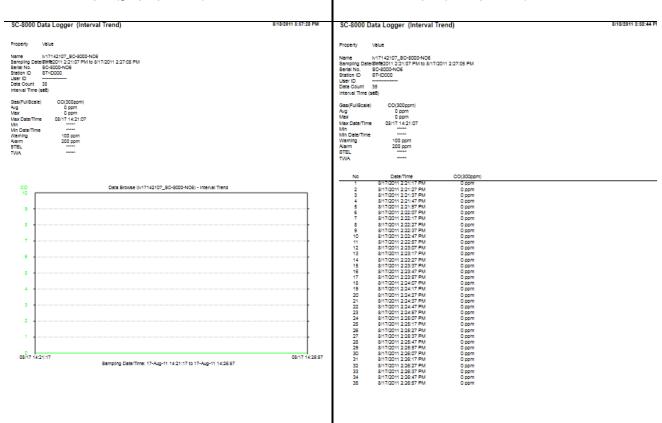
Printer Li	st		X
Printer	Microso	ft XPS Document Wi	riter 💌
	ОК	Cancel	

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)



Printo	out exam	ple (calibration history)				t example (alar	m events)	
SC-8000 Dat	ata Logger (Calibi	ration History)	8/18/2011 3:38:26 PI	N	SC-8000 Data	Logger (Alarm Event)			8/18/2011 4:1
Property		Value			Property		Value		
Berial No. Btation ID User ID		80-6000-NO6 87-10000			Serial No. Station ID User ID		SERIAL2 ST-IDDDD		
Lest Download		8/18/2011 2:14:08 PM			Last Download		8/18/2011 3:53:14 P	м	
No	Date/Time		CO(300ppm)		No	Date/Time	Ges	Event	
1 8/	917/2011 11:28:28 AM	Before After	0 ppm		1 4/4/2 2 3/30	2011 1:12:22 PM 1/2011 4:25:27 PM	CO(150ppm) CO(150ppm)	WARNING WARNING	
2 8/	917/2011 11:26:57 AM	After	0 ppm		3 3/30	V2011 4:14:12 PM V2011 3:42:40 PM	CD(150ppm) CD(150ppm)	WARNING WARNING	
		Alei			5 3/17	/2011 2:04:12 PM	CO(150ppm)	WARNING	
					7 3/3/2	2011 3:25:38 PM 2011 5:10:45 PM	CO(150ppm) CO(150ppm)	WARNING	
					9 2/23	2011 4:11:55 PM 2011 8:51:25 AM	CO(150ppm) CO(150ppm)	WARNING WARNING	
						2011 4:10:12 PM 2011 3:27:27 PM	CO(150ppm) CO(150ppm)	WARNING	
					12 2/15 13 2/10	2011 5:00:30 PM 2011 4:05:44 PM	CO(150ppm) CO(150ppm)	WARNING ALARM	
					14 2/10	2011 4:05:20 PM 2011 1:45:17 PM	CO(150ppm) CO(150ppm)	WARNING ALARM	
Printo	out exam	ple (bump test)			16 2/8/2	2011 1:44:54 PM 2011 3:54:39 PM	CD(150ppm) CD(150ppm)	WARNING ALARM	
SC-8000 Da	ata Logger (Bump	o Test)	8/18/2011 3:40:58 P	м	18 2/7/2	2011 3:54:35 PM 2011 3:54:18 PM 2011 4:47:31 PM	CO(150ppm)	WARNING ALARM	
					20 2/2/2	2011 4:47:14 PM	CO(150ppm) CO(150ppm)	WARNING	
Property		Value			22 2/2/2	2011 1:05:53 PM 2011 1:05:36 PM	CO(150ppm) CO(150ppm)	ALARM WARNING	
Serial No. Station ID		8C-8000-ND5 8T-ID000			23 12/2 24 12/1	8/2010 11:35:05 AM 6/2010 4:33:13 PM	CO(150ppm) CO(150ppm)	WARNING	
User ID Last Download		8/18/2011 2:14:08 PM							
No	Date/Time		CO(300ppm)						
1 8	8/17/2011 2:16:10 PM	Test Result Concentration	14 ppm 20 ppm						
2 8	B/17/2011 2:14:42 PM	Judge Test Result	PASS 14 ppm						
		Concentration	20 ppm PASS						
3 8	8/17/2011 2:12:51 PM	Test Result Concentration	14 ppm 40 ppm						
4 3	8/17/2011 2:12:09 PM	Judge Test Result	FAL 14 ppm						
• •	617/2011 2:12:09 PM	Concentration	40 ppm						
5 8	8/17/2011 11:27:57 AM	Judge Test Result	FAIL 0 ppm						
		Concentration Judge	200 ppm FAIL						
6 8	8/17/2011 11:26:27 AM	Test Result Concentration	0 ppm 200 ppm						
		Judge	FAIL						

Printout example (1 SC-8000 Data Logger (Trouble Event			ntout exampl		8/18/2011 4:13:11 PM
Property	Value				
Berlei No.	SERIAL2	Proper	y Value		
tation ID	SERIAL2 ST-ID000	Name	ss09105527_8ERIAL2 g Date@Bi818011 10:55:27 AM		
iser ID ast Download	8/18/2011 3:53:15 PM	Senal 1 Station User 10	0. SERIAL2 ID ST-ID001		
No Determine 1 67720111024533 AM 2 6772011102453 AM 3 6772011102453 AM 3 6772011102453 AM 5 6502011102453 PM 6 530201111045 PM 7 526201124004 PM 8 522001130738 PM 9 522001130738 PM 9 51202011242104 PM 9 51202011242104 PM 10 51102011124217 PM 11 31602011104217 PM 12 45120011104217 PM 13 31602011104213 PM 14 31602011104213 PM 17 71020011453744 PM 21102011453744 PM 21102014537 PM 211102011453744 PM 211102014537 PM 2111020145371648 PM 211102014537 PM 2111020145371648 PM 211102014537 PM 2111020145371648 PM 211111020144886 PM	Gas.Booy Event Booy Pail(L-Hon) Booy Pail(L-Hon)		o Date/Time	OOI193ppmi 9 ppm 	

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.

If Print Setting is changed in this program, when a printout is required from another application, check Print Setting of that application before printing.

Save As	ogram Files + SC-8000 + + 47	Search SC-8000	<mark>×</mark> م
Organize - Ne	w folder	:==	• 0
Desktop Downloads Elbraries Documents Music Pictures Videos Computer Computer S(64bit) (D:)		Date modified 8/18/2011 2:13 PM	Type File folder
	▼ ∢ [,
File <u>n</u> ame:	Sample		8
Save as <u>t</u> ype:	Comma csv (*.csv)		10

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.

(4) To view data summary simultaneously Summary view

Data View(Interval Trend	7/	
⊙ Table (● Graph	Print Export Summar Return	₽/B
Property	Value	99
Name	iv17142107_SC-8000-NO6	Download
Sampling Date/Time	8/17/2011 2:21:07 PM to 8/17/2011 2:27:05 PM	
Serial No.	SC-8000-NO6	11 C
Station ID	ST-ID000	
UserID		Instrument
Data Count	35	mormatio
Interval Time (sec)	10 *	
10	Data Browse (iv17142107_SC-8000-NO6) - Interval Trend	Data
10 9 8		Data
9	summary is layed.	Last
9	summary is	Last
9- 8- 7- 6- 5- 4- 3- 2-[08/17]	summary is	Last Calibration
9- 8- 7- 6- 5- 	summary is layed. 08/17 14:26:	Last Calibration

When the Summary button is clicked, the summary view is cleared.

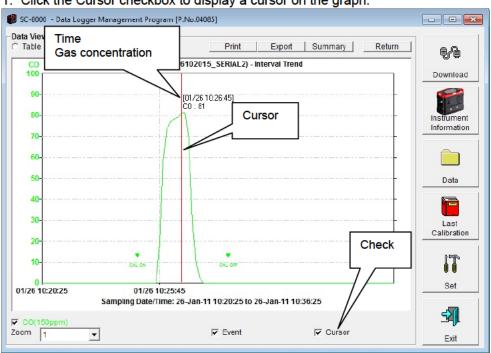
(5) Table details

• Event color

The cells that display gas concentration are painted according to the event occurred at that time.

CO(50	Oppm)	The cells are identified by	
		background color.	
ALARM			
WARNING			
NORMAL	_		
WARNING			
ALARM	2		
	2)3		
)6		
)6		
)6		
OVER			
40	01		
50)0		
	00		
	00		
	00		
STEL	20		
	00		
50	00		
Fail:	Gray	Fault	
Warning:		First alarm	
Alarm:	Red	Second alarm	
STEL:	Pink	STEL alarm	
	Light purple	TWA alarm	
	Light purple Deep green		
TWA:	Light purple Deep green Light red		
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	
TWA: Normal:	Deep green	Recover from above states	





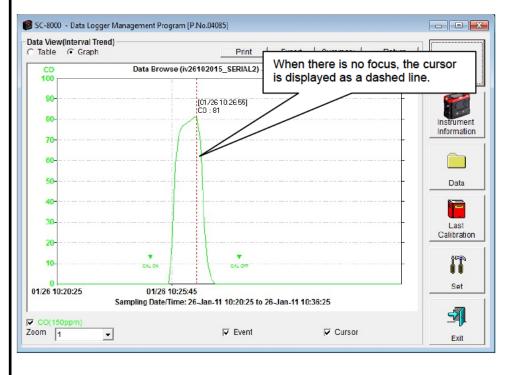
Use the left and right keys to move the cursor left and right, and the up and down keys to move the time and concentration views up and down.

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

CAUTION:

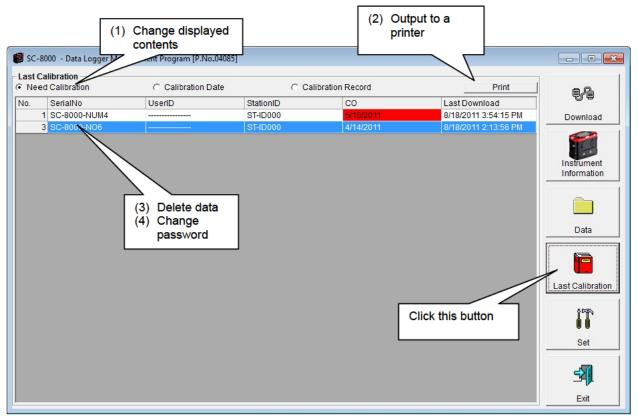
Cursor operation is not available when a window irrelevant to the program is opened and the focus is moved outside the graph area.

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.



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

(1) Change displayed contents

Expired data

1. Click the Need Calibration radio button.

		Calibration	C Calibration D	Click		C Calibration	Record	Print
No.		SerialNo	UserID	2	stationid		CO	Last Download
	1	SC-8000-NUM4		5	ST-ID000		5/10/2011	8/18/2011 3:54:15 PI
	3	SC-8000-NO6		5	ST-ID000		4/14/2011	8/18/2011 2:13:56 PI

Among the SC-8000 main units connected in the past (in other words, the main units from which Instrument Information data is downloaded), this table extracts and displays the records which have an expired calibration date.

1. Click the Calibration Date radio button.

	d Calibration	 Calibration Date 	C Calibratio	n Record	Print
No.	SerialNo	UserID	StationID	CO	Last Download
1	SC-8000-NUM4		ST-ID000	5/10/2011	8/18/2011 3:54:15 PM
2	SERIAL2		ST-ID001	6/15/2011 10:37:55 AM	8/18/2011 3:52:16 PM
3	SC-8000-NO6	· · · · · · · · · · · · · · · · · · ·	ST-ID000	4/14/2011	8/18/2011 2:13:56 PM

List view

Data for the SC-8000 main units connected in the past is listed. (Of the data with the same serial number, user ID, and Station ID, the newest data is displayed.)

1. Click the Calibration Record radio button.

	Calibration	C	Calibration Date		Calibration Re	cord		Print
No.	SerialNo	UserID	StationID	Gas	Before	After	A.Cal.	Cal.Due(D
1	SC-8000-NUM4		ST-ID000	CO			50.0	Now
2	SERIAL2		ST-ID001	CO	58	51	50	Remaining
3	SC-8000-NO6		ST-ID000	CO			20	Now

Display details

Data for SC-8000 main units connected in the past is listed in the same format as the Instrument Information screen.

For details on the items, see "3-2. Instrument Information screen", "(3) Calibration history information".

(2) Output to a printer • Print The last

~	
	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	Microso	Microsoft XPS Document Writer			
	OK	Cancel			

-8000	Data Logger (Las	t Calibration)			8/18/2011 4:20:20 PM
No.	SerialNo	UseriD	StationID	00	Last Download
1	SC-8000-NUM4		8T-ID000	5/10/2011	8/18/2011 3:54:15 PM
	SC-8000-NO6		8T-ID000	4/14/2011	8/18/2011 2:13:56 PM

(3) Delete data Delete Move the mouse to the data that needs to be deleted, and right-click the data. 1 -Last Calibration Calibration Date C Calibration Record C Need Calibration Print SerialNo UserID StationID Last Download No. CO 1 SC-8000-NUM4 ST-ID000 8/18/2011 3:54:15 PM Click 6/15/2 8/18/2011 3:52:16 PM 2 SERIAL2 Delete 3 SC-8000 CAUTION: Deletion of data is available only in Need Calibration and Calibration Date views. It is not available in the Calibration Record view. 1. When the Delete button is clicked, the Password dialog is prompted. Enter the password and press the Continue button. Input password Password x Please input password. Continue Change Password CAUTION: When Continue is pressed without entering the password, the delete operation is canceled. 2. When Continue is pressed with an appropriate password, the following message is displayed. **Delete History** 23 Delete History : SerialNo=SC-8000-NO6 Yes No Click the Yes button to delete the data. Click the No button to cancel deletion of data.

(4) Change password

- Input password
- 1. Display the Password dialog in the same way as deleting the data, and click Change Password.

🗢 Password	×				
Please input password.					

Continue	Change Password				

2. Enter an appropriate password and click the Current password button. The following message is displayed.

Password	×
Input new password.	

Continue	New Password

- 3. Enter the new password and click the New Password button.
- 4. The Password dialog is prompted again. Enter the same new password and click New Password.

Change password	×
Change ne	w password.
	ОК

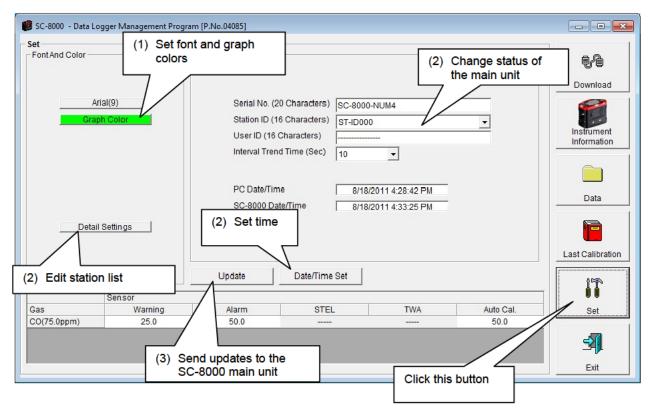
CAUTION: The password immediately after installation is "Riken". (Case-sensitive)

CAUTION: Clicking the Continue button during a password change process can execute the data delete command. When the Continue button is clicked with an old password, data will be deleted even in the process of password change.

Click OK to update the password.

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 SC-8000 main unit using the Update button.

CAUTION: The font setting is applied on the next startup.

(1) Change font and graph colors Change the font 1. Click the area that displays the font. Font And Color Click Arial(9) Graph Color **Detail Settings** The font setting dialog is displayed. Specify an appropriate font. CAUTION: When an extremely large font is used, the screen might be hard to view. This change will be effective on the next startup. Change the The display colors mapped for the gases in the graph can be changed. graph color 1. Click the area that displays each gas. Font And Color Arial(9) Click Graph Coloi Detail Settings The color selection dialog is displayed. Specify an appropriate color.

Change status of the main unit (2)

	Data Logger Management Program [P.N	Detail Settings		
Set	Lizeron March 1	Detail Settings		
Font And Co	lor			
		Station List		
		1 ST-ID000		
	Arial(9)	2 ST-ID001	E	
		3 ST-ID002		
	Graph Color	4 ST-ID003		
		5 ST-ID004		
		6 ST-ID005		
		7 ST-ID006		
		8 ST-ID007		
		9 ST-ID008		
		10 ST-ID009		
		11 ST-ID010		
	Datail Cattings	12 ST-ID011		
	Detail Settings	13 ST-ID012		
	́Ц	14 ST-ID013		
Click		15 ST-ID014		
		16 ST-ID015		Export
		17 ST-ID016		csv file
	Sensor	18 ST-ID017		Import csv
Gas	Warning	19 ST-ID018	+	file
CO(75.0ppm				

The edit dialog is displayed. The station list contains stations up to Number 256. Up to 16 characters of alphabets, numbers, spaces, hyphens, and asterisks can be entered.

* In the SC-8000 main unit, only the first eight characters are displayed. We recommend to use up to eight characters of only upper-case alphabets and/or numbers.

Export csv file:

The data is exported to a file. A text file is created using the "Number, data" format.

Import csv file:

Data is loaded from a text file that follows the "Number, data" format. If the data contains unsupported letters, or the data is too long, the background color of the corresponding cells is changed to red.

* If any cells have red background, OK cannot be selected.



• Change

2. In the status area, change the desired data.

Serial No. (20 Characters)	SC-8000-NUM4	
Station ID (16 Characters)	ST-ID000	-
User ID (16 Characters)		
Interval Trend Time (Sec)	180 💌	
PC Date/Time	8/18/2011 4:39:39 PM	
SC-8000 Date/Time	8/18/2011 4:44:22 PM	

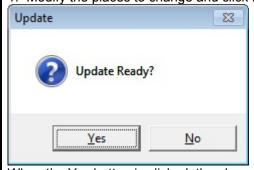
The contents of Serial No. (20 Characters) and User ID (16 Characters) can be changed.

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 adjust the internal clock of the SC-8000 main unit (SC-8000 Date/Time) to the internal clock of the PC (PC Date/Time). **CAUTION: The date/time areas cannot be entered directly.**

CAUTION: The settings of the SC-8000 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 SC-8000 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 SC-8000 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 SC-8000 program.

- 1) File name: SC8000.mdb File type: Microsoft Jet 3.6 database file
- 2) 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 SC-8000 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 SC-8000 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 communication.	There is a scattered light outside.	Eliminate the device that uses IR.
	The SC-8000 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 SC-8000 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.

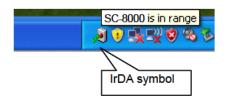
7-2. Display of communication ready status

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.

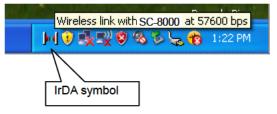
CAUTION: The displayed content might differ depending on the operating system and IrDA driver settings.

7-2-1. Task bar icon when the operating system recognized SC-8000



The IrDA symbol is displayed, and when the cursor is pointed over the symbol, the message "SC-8000 is in range" is displayed.

7-2-2. Task bar icon when communication between the data logger program and the SC-8000 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 SC-8000 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 SC-8000 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 SC-8000 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
SC8000.exe	SC-8000 main unit
RkIrDA11.ocx	Infrared communication component
Filemove.avi	Animation file that shows that data download is in progress

8-2. Current directory during operation

File name	Details
SC8000.exe RkIrDA11.ocx Filemove.avi	SC-8000 main unit Infrared communication component Animation file that shows that data download is in progress
SC8000.ini SC8000.dat SC8000.mdb Data Serial.log	SC-8000 initialization file File for data downloading Database file (Microsoft Jet 3.6 database) Save directory for trend data files 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)	SC-8000 Data Logger Management Program
Model	SW-SC-8000
Executable file name	SC8000.EXE
Supported OS	Microsoft Windows 2000 Windows XP Windows Vista Windows 7 Internet Explorer 5.01 or higher required
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 main unit	Infrared (conforming to IrDA 1.1 protocol) Standard communication settings Baud rate: 57600 bps (maximum) Data bit: 8 bits Stop bit: 1 bit Parity: Even parity
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