

**Data Collection Software  
U-50PC**

(P-No P2000484001- ver.1.0.1.4)

**Instruction Manual**

CODE:GZ0000145277

## Preface

This manual describes the operation of the U-50PC, Data Collection Software. Be sure to read this manual before using the product to ensure proper and safe operation of the instrument. Also safely store the manual so it is readily available whenever necessary. Product specifications and appearance, as well as the contents of this manual are subject to change without notice.

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# Index

<b>1</b>	<b>About the software .....</b>	<b>1</b>
1.1	What this software can do .....	1
1.2	Symbols / Expressions .....	1
1.3	Precautions .....	1
<b>2</b>	<b>Functions and operating environment .....</b>	<b>2</b>
2.1	Functions .....	2
2.2	System configuration .....	2
2.3	System components .....	2
2.4	Computer specifications .....	3
<b>3</b>	<b>Setup.....</b>	<b>4</b>
3.1	Installation and uninstallation.....	4
3.2	Connecting the meter and computer, and installing the driver .....	9
<b>4</b>	<b>Start-up and exit.....</b>	<b>11</b>
4.1	Start up .....	11
4.2	Exit .....	12
4.3	Main window.....	13
4.3.1	Menu bar .....	13
4.3.2	Data information .....	15
4.3.3	Measured data.....	15
4.3.4	Meter error.....	16
4.3.5	Communication confirmation .....	16
4.3.6	Measurement status .....	17
4.3.7	Data Number .....	17
4.3.8	Importing measured data / download data.....	17
4.3.9	Graph .....	18
4.3.10	Menu bar tree and shortcut button.....	20
<b>5</b>	<b>Setting of port .....</b>	<b>21</b>
<b>6</b>	<b>Importing measured data .....</b>	<b>24</b>
6.1	Setting of cycle (time interval) of data import.....	24
6.2	Importing measured data.....	25
6.3	Stop importing .....	25
<b>7</b>	<b>Download.....</b>	<b>26</b>
<b>8</b>	<b>Saving and opening files .....</b>	<b>27</b>
8.1	Saving file .....	27
8.2	Open file .....	27
8.3	csv file format .....	28
<b>9</b>	<b>Graph .....</b>	<b>29</b>
9.1	Main window graph.....	29
9.1.1	Cursor.....	29
9.1.2	Setting of the number of graphs displayed .....	29
9.1.3	Graph settings .....	30
9.2	X-Y graph .....	32
9.2.1	Displaying the X-Y graph .....	33
9.2.2	X-Y graph explanation .....	33
9.2.3	Graph settings .....	34
9.3	Depth graph.....	35
9.3.1	Displaying the depth graph .....	35
9.3.2	Depth graph explanation.....	36

9.3.3	Add/delete data .....	38
<b>10</b>	<b>Troubleshooting.....</b>	<b>39</b>
10.1	Checklist.....	39
10.2	To contact support center .....	39
10.3	Checking the version.....	40

# **1 About the software**

## **1.1 What this software can do**

This software is dedicated for the U-50 Series Multi Water Quality Checker. It can import measured data into the computer and save it as a csv-formatted file. It can also import meter memory data.

## **1.2 Symbols/Expressions**

- The symbols used in this manual regarding Windows operations and screens are listed as follows.  
[      ]: buttons and menus  
<      >: Window and dialog box titles
- The U-50 Series Multi Water Quality Checker is expressed as "the meter".
- Explanations of Windows operations are illustrated using Windows XP.

## **1.3 Precautions**

Before using the software, please read the following precautions.

- Be aware that this software is not guaranteed to work on all computers.
- Only the administrator of the computer can install this software.
- This software may not work properly while other applications are running.

## 2 Functions and operating environment

### 2.1 Functions

The software has two main functions, "importing measured data" and "downloading data".

- **Importing measured data**

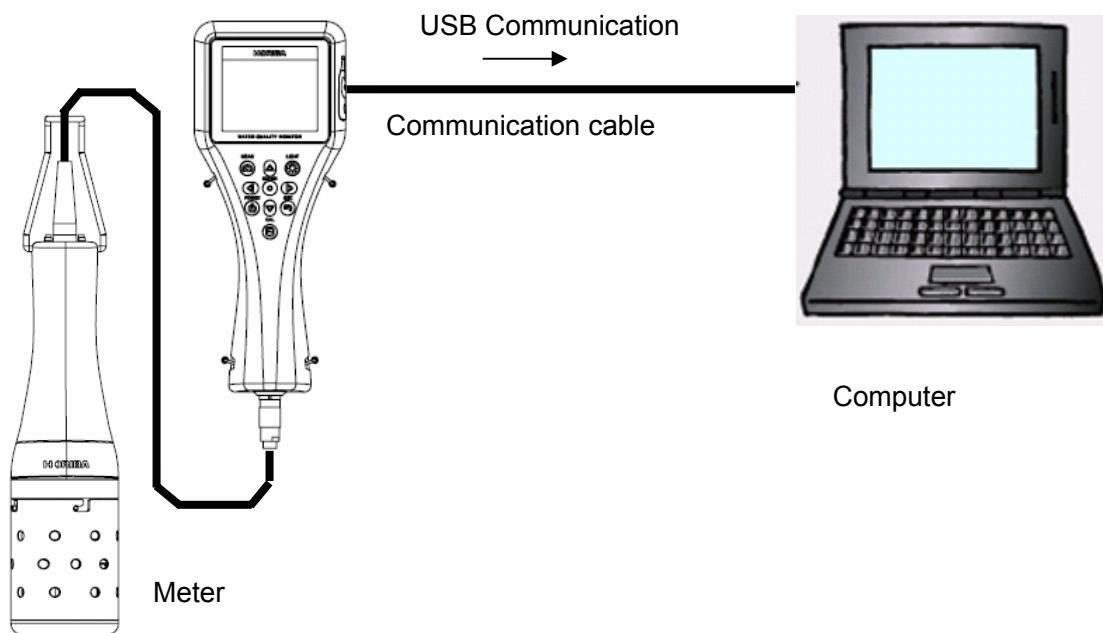
Real time data measured by the meter is imported into the computer and displayed as a graph. The measured data can also be saved as csv format.

- **Downloading data**

Data saved in memory on the meter can be imported into the computer. You can also create a graph and save the data as csv format.

### 2.2 System configuration

The system configuration diagram is shown below.



### 2.3 System components

Meter	U-51, U-52, U-52G, U-53, U-53G
Computer	See "2.4 Computer specifications"
Communications cable	Option: Part No. 3200174823. Commercial part: A USB cable with a USB A plug and a USB B plug for both ends. (Mini plugs and micro plugs cannot be used)

## 2.4 Computer specifications

Table 1 shows necessary and recommended computer specifications.

Table 1 Computer specification

Item	Necessary specification	Recommended specification
CPU	800 MHz or higher	1 GHz or higher
Memory	512 MB or higher	1 GB or higher
Free hard drive space	15 GB or higher	15 GB or higher
OS	Windows XP or Windows Vista	
Display	Super VGA (800 x 600) or higher	
Connector	USB A connector	

**Note**

This software may not operate correctly if memory or hard drive space is not enough.

## 3 Setup

### 3.1 Installation and uninstallation of the software

#### **Note**

To install the software, log in as a user with Windows administrator rights.

#### ● Installation

##### Preparation of executable file

###### **Setup with CD**

1. Insert the setup CD into the computer's CD-ROM drive.
2. The installation starts automatically. If the installation does not start automatically, double click "U50Setup.exe" in the root directory of the setup CD to start the installation.

###### **Setup with downloaded file**

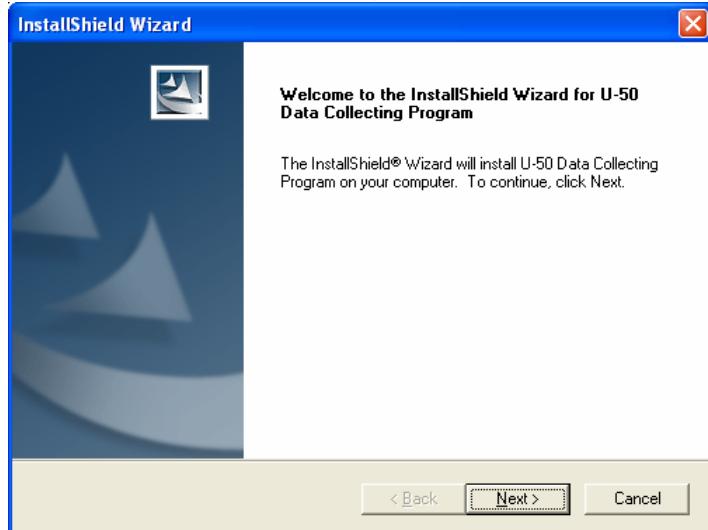
1. Decompress the downloaded folder "U50Setup.lzh" and save the file "U50Setup.exe" to the folder.
2. Double click "U50Setup.exe" to start the installation.

##### Start the installation

1. Select your language in <Choose Setup Language>, and click [OK].



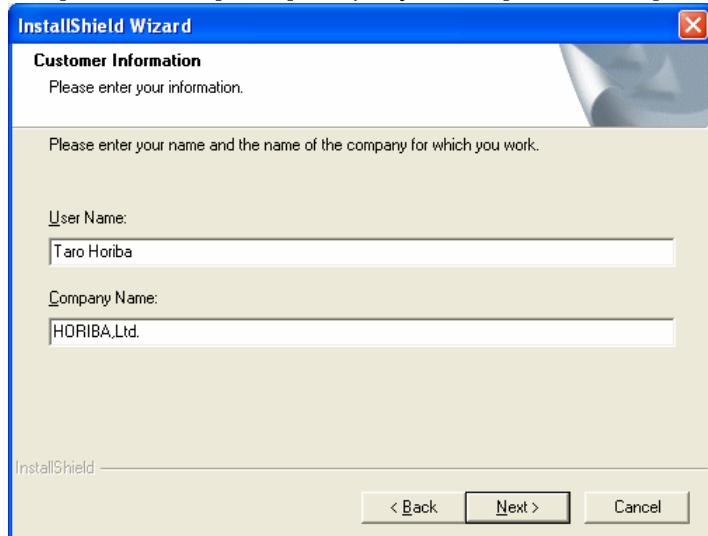
2. <InstallShield Wizard> is displayed, then click [Next >].



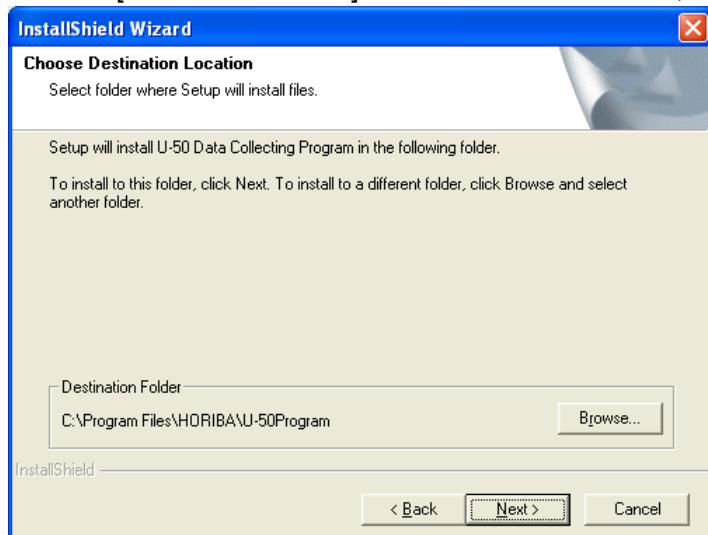
**Note**

Click [< Back] when you wish to return to an operation at any time during the installation.

3. Enter [User Name:] and [Company Name:], then click [Next >].



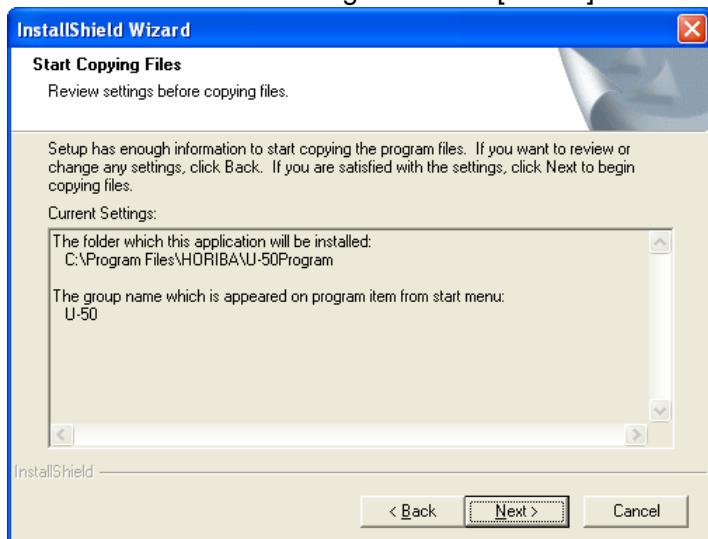
4. Select the [Destination Folder] to be saved this software, and click [Next >].



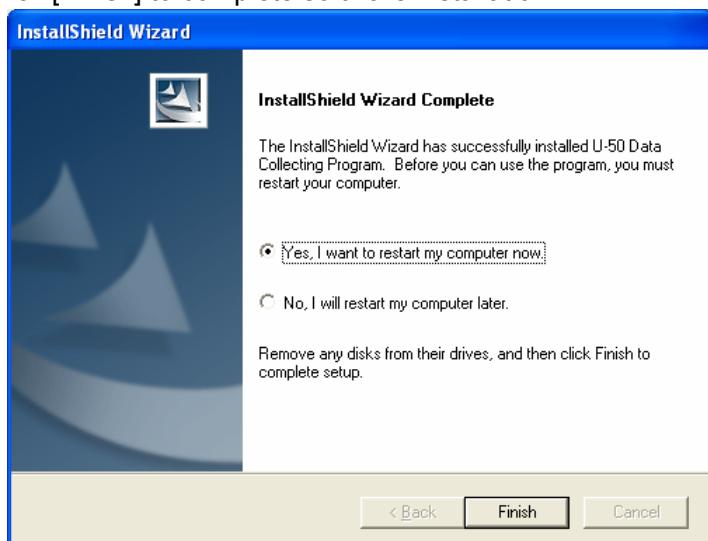
5. Enter [Program Folders:] and click [Next >]. "U-50" is recommended to name the folder.



6. Confirm the installation settings and click [Next >].

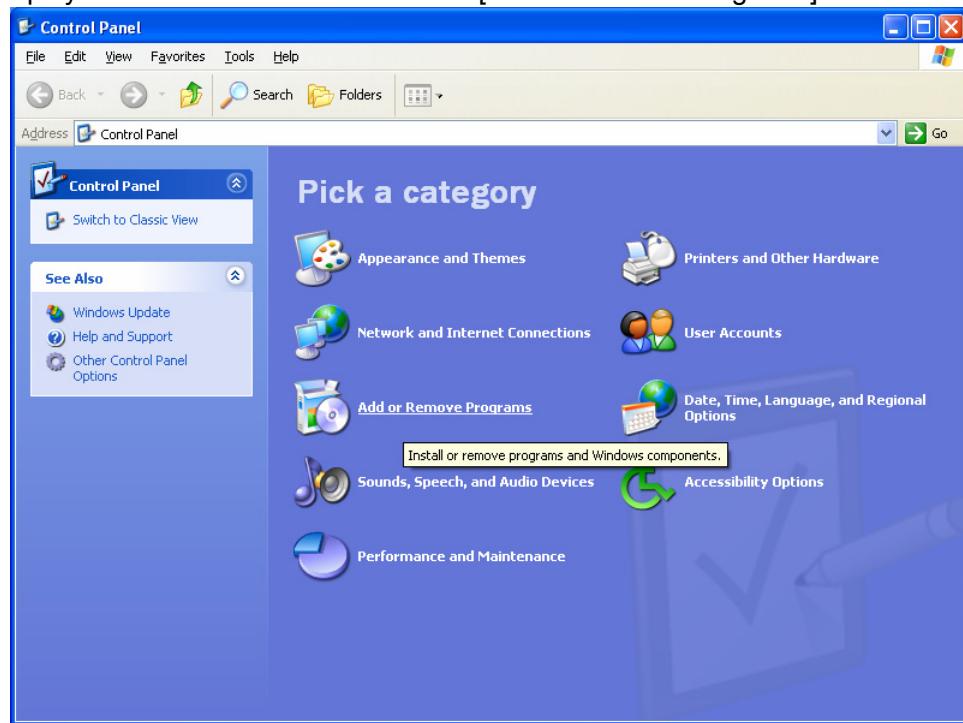


7. Click [Finish] to complete software installation.

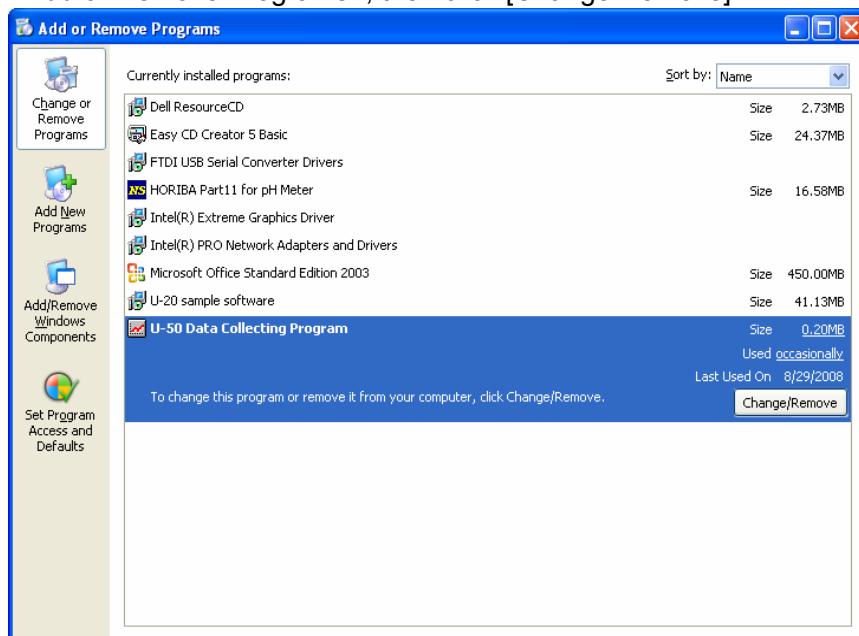


## ● Uninstall

1. Display the <Control Panel> and select [Add or Remove Programs].



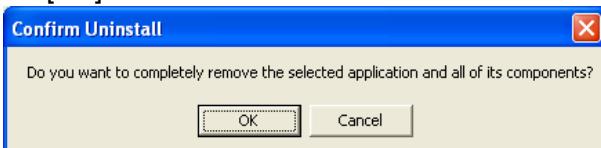
2. Select [U-50 Data Collection Software] from the [Change or Remove Programs] list in <Add or Remove Programs>, then click [Change/Remove].



3. Select [Remove] and click [Next >].



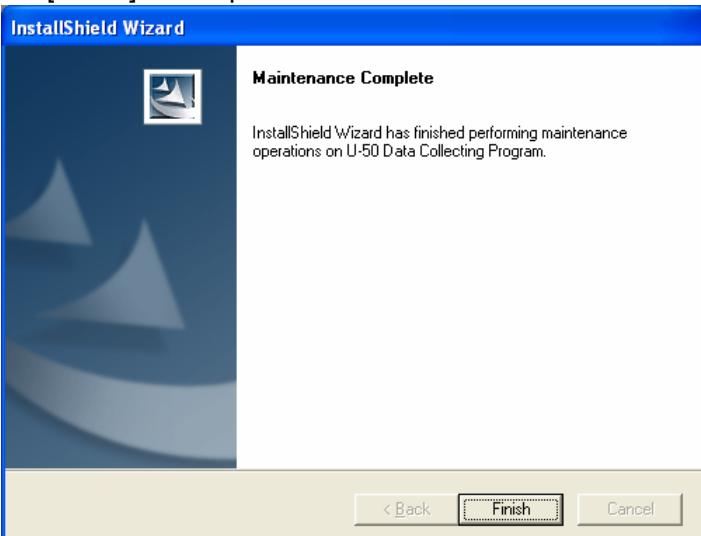
4. Click [OK] in <Confirm Uninstall>.



If <Locked File Detected> is displayed, check [Don't display this message] and click [Ignore].



5. Click [Finish] to complete software uninstallation.



## **3.2 Connecting the meter and computer, and installing the driver**

In order to connect the meter to the computer, the driver must be installed on the computer.

- **Driver installation setup**

1. Decompress the downloaded file "CDM 2.00.00.zip" and save it in the folder.

- **cable connection**

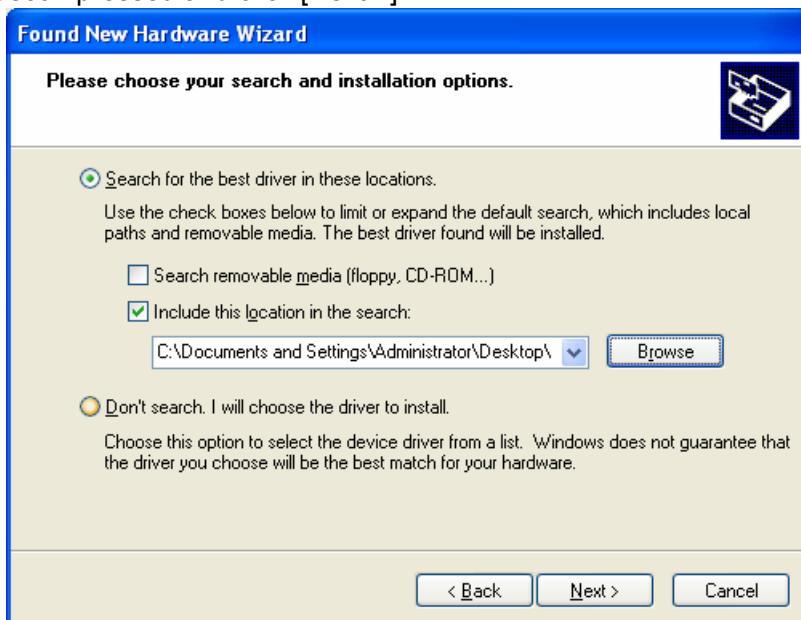
1. Ensure that the meter's power is turned off.
2. Connect the communication cable.

- **Driver installation**

1. When the communications cable is connected to the computer, new hardware is detected on the computer and the following screen will be displayed. Select [Install from a list or specific location (Advanced)] and click [Next >].



2. Select [Search for the best driver in these locations.] and check [Include this location in the search:]. By pressing [Browse], specify the folder where "CDM 2.00.00.zip" were decompressed and click [Next >].



3. Click [Finish] to complete set up.



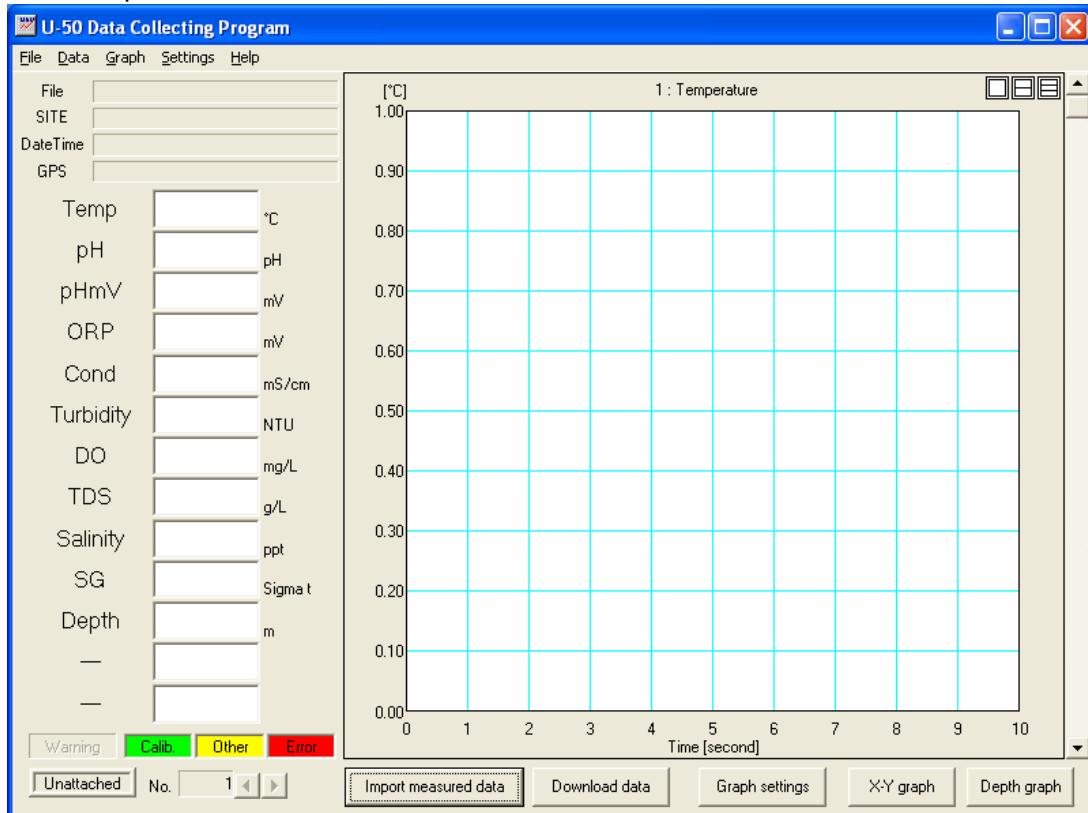
4. Double click the downloaded file "CDM\_Setup.exe", and the following screen is displayed. Click [OK] to complete the installation.



## 4 Start-up and exit

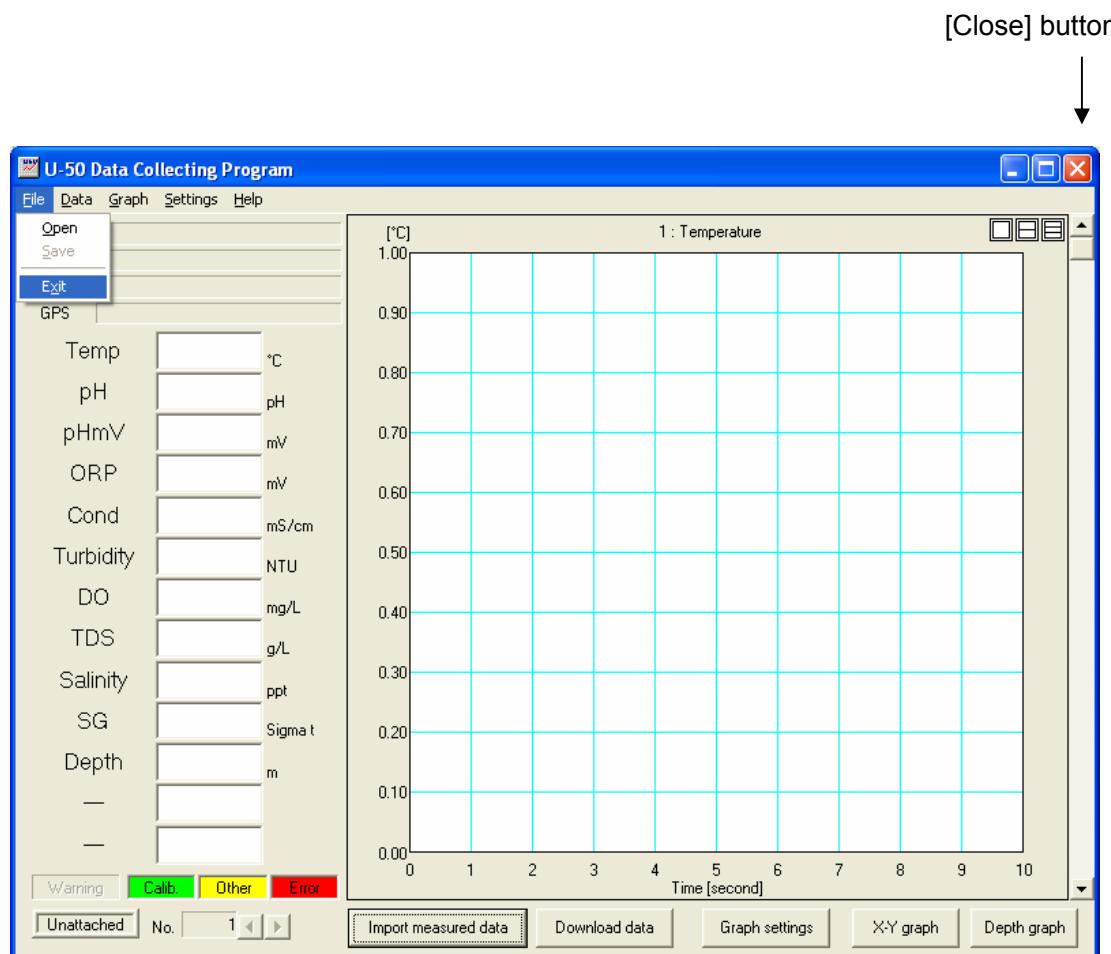
### 4.1 Start up

Select [All Programs] - [U-50] - [U-50 Data Collection Software] from [Start] menu, and main window opens.



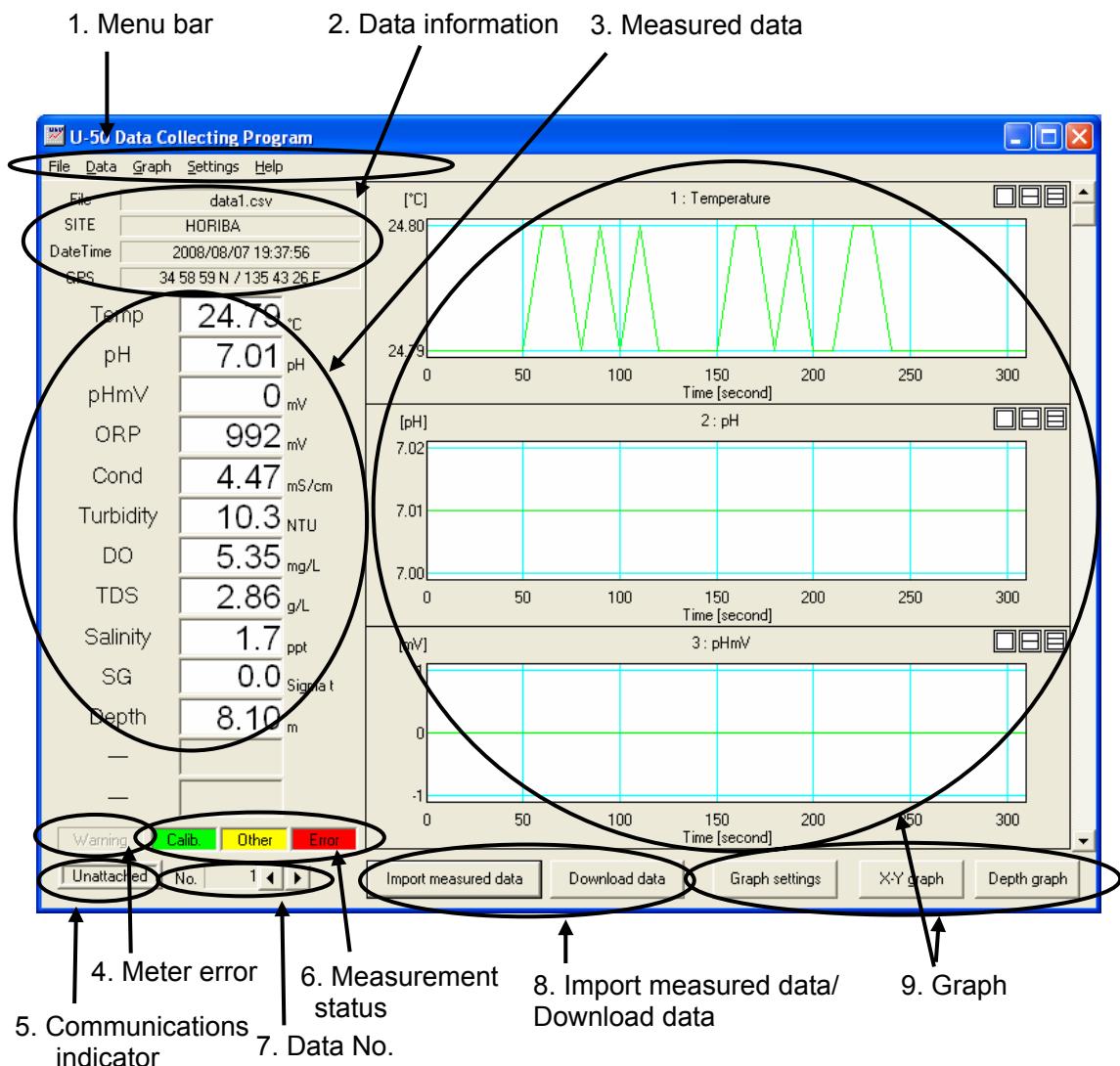
## 4.2 Exit

Select [Exit] from [File] menu or click the [Close] button in the upper-right of the window. During importing measured data, the software cannot be closed. Stop importing to close the software. (See "6 Importing measured data")



## 4.3 Main window

On the main window, you can select functions of "Import measured data" or "Download data", and settings of port or graph.



### 4.3.1 Menu bar

- [File] menu

You can select [Open] to open a file, [Save] to save data, or [Exit] to exit the software.



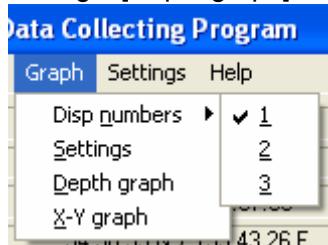
- **[Data] menu**

You can select [Import measured data], [Stop importing], [Download data], [Select data], or [Clear].



- **[Graph] menu**

You can select [Disp numbers] to select the number of graphs displayed, [Settings] for graph settings, [Depth graph] to create a depth graph, or [X-Y graph] to create an X-Y graph.



- **[Settings] menu**

You can select [Port] to port settings or [Import cycle] to import cycle setting.



- **[Help] menu**

You can select [About] to display version information.



#### 4.3.2 Data information

File	data1.csv
SITE	HORIBA
DateTime	2008/08/07 19:37:56
GPS	34 58 59 N / 135 43 26 E

- <File>

File name is displayed when measured data is saved or opened.

- <SITE>

Set SITE is displayed.

- <DateTime>

Date and time are displayed when data was acquired.

- <GPS>

GPS data is displayed.

\* GPS data is added to the data when acquired with the U-52G or U-53G.

#### 4.3.3 Measured data

- Measured data

Temp	24.79	°C
pH	7.01	pH
pHmV	0	mV
ORP	992	mV
Cond	4.47	mS/cm
Turbidity	10.3	NTU
DO	5.35	mg/L
TDS	2.86	g/L
Salinity	1.7	ppt
SG	0.0	Sigma t
Depth	8.10	m

#### 4.3.4 Meter error

This field turns in red in case of meter.



Identified meter errors

- Probe ADC error
- Probe EEPROM error/Factory
- Probe EEPROM error/User
- Display unit RTC error
- Display unit FROM error
- Turbidity lamp error
- Turbidity wiper motor error
- Probe Capacitor error
- Probe EEPROM error
- Display unit data store error
- Probe PC board defect

#### Reference

See U-50 series instruction manual to check errors.

#### 4.3.5 Communication confirmation

Communication status is displayed.

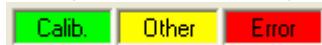
: displayed when communication was failed.

: displayed when measured data was imported.

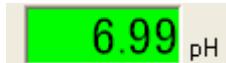
: displayed during data downloading.

#### 4.3.6 Measurement status

When measured data is in the state of <Calib.>, <Other>, or <Error>, data field of the color changes corresponding to the status.



<Calib.>: Under calibration.



<Other>: Under measurement or hold.



<Error>: Error data was measured.



#### 4.3.7 Data No.

Data No. is added in the order of acquisition of data. By selecting the number, the numbered data is displayed. You can go to forward and afterward data by pressing right/left keys.



#### 4.3.8 Importing measured data/download data

- **[Import measured data] [Stop importing]**

You can start or stop importing measured data. [Import measured data] is shown when measured data are not imported, and [Stop importing] are shown when measured data are imported. (See "6 Importing measured data")



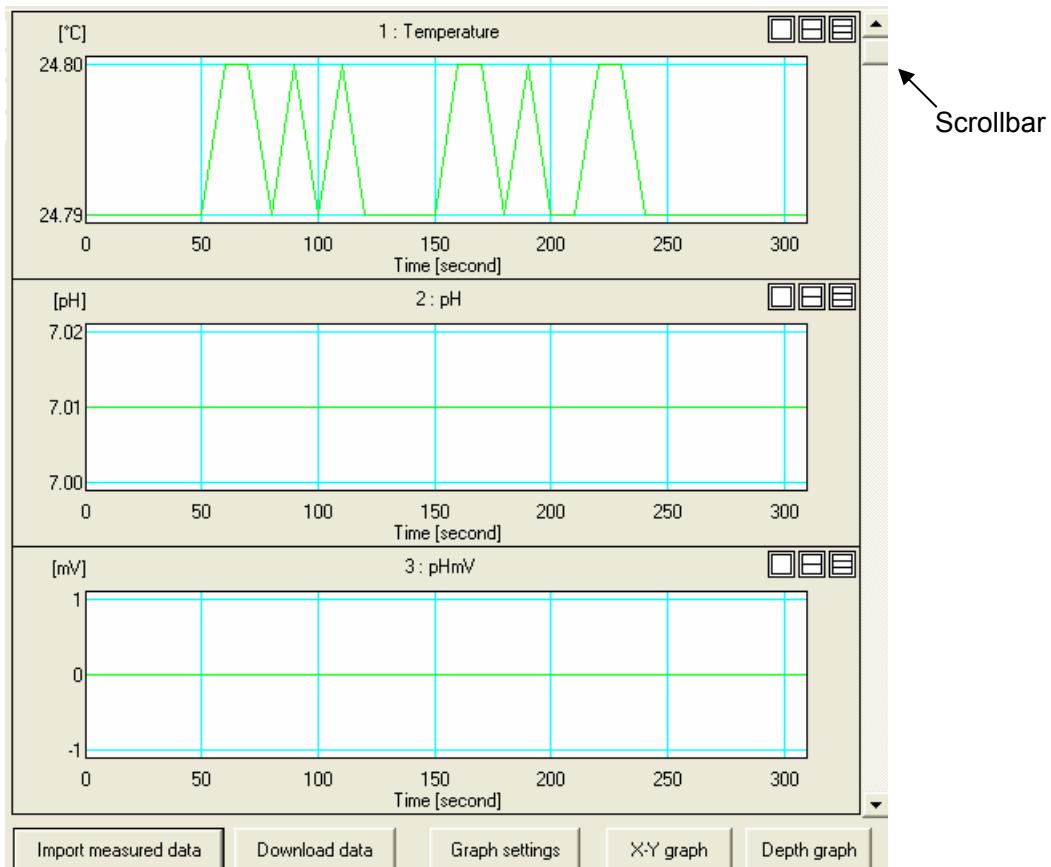
- **[Download data]**

You can download data from the meter. (See "7 Download")



#### 4.3.9 Graph

Graph of imported data or downloaded data are displayed. The horizontal axis represents time, and the vertical axis represents the measured values for each parameter. 1 to 3 graphs can be displayed simultaneously. Parameters can be changed with the scrollbar on the right side.



- **[Graph settings]**

You can set the graph style. (See "9.1.3 Graph settings")

**Graph settings**

- **[X-Y graph]**

You can create a X-Y graph. (See "9.2 X-Y graph")

**X-Y graph**

- **[Depth graph]**

You can create a graph with depth as the axis. (See "9.3 Depth graph")

**Depth graph**

\* Available for U-52G, U-53, U-53G.

#### 4.3.10 Menu bar tree and shortcut button

Action	Menu bar tree	Shortcut Button
To start importing measured data.	[Data] - [Import measured data]	
To stop importing measured data.	[Data] - [Stop importing]	
To download memory data.	[Data]- [Download data]	
To change the number of graphs.	[Graph]- [Disp numbers] - [1 (or 2, 3)]	
To set the graph.	[Graph] - [Settings]	
To draw a depth graph.	[Graph] - [Depth graph]	
To draw an X-Y graph.	[Graph] - [X-Y graph]	

## 5 Setting of port

The port must be set before importing and downloading data.

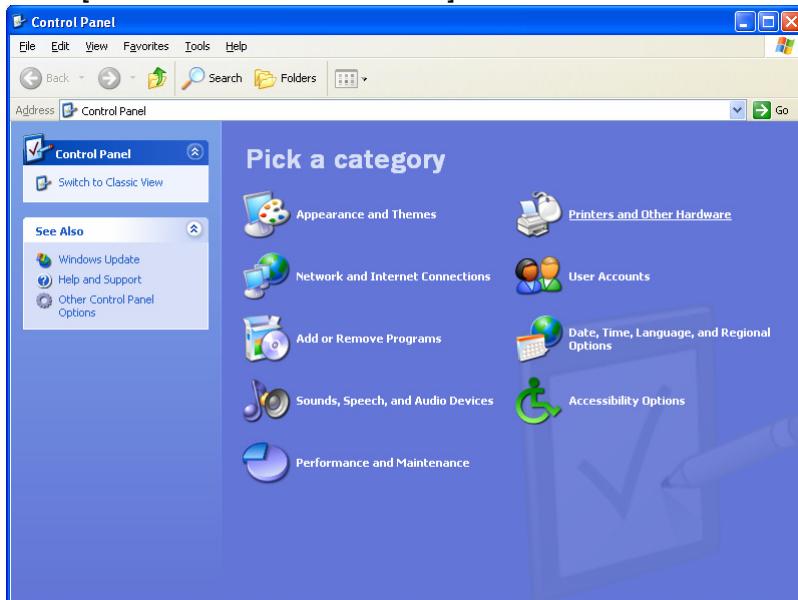
### ● Procedure

1. Confirm the COM port communications cable is recognized.
2. Select the port in the software.

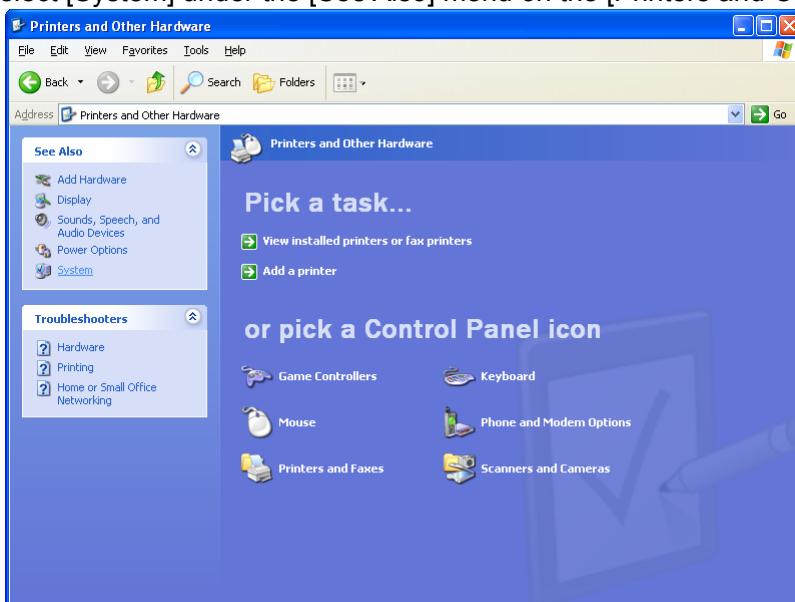
### ● Confirm the computer's port

This procedure is explained using Windows XP.

1. Select [Printers and Other Hardware] on <Control Panel>.



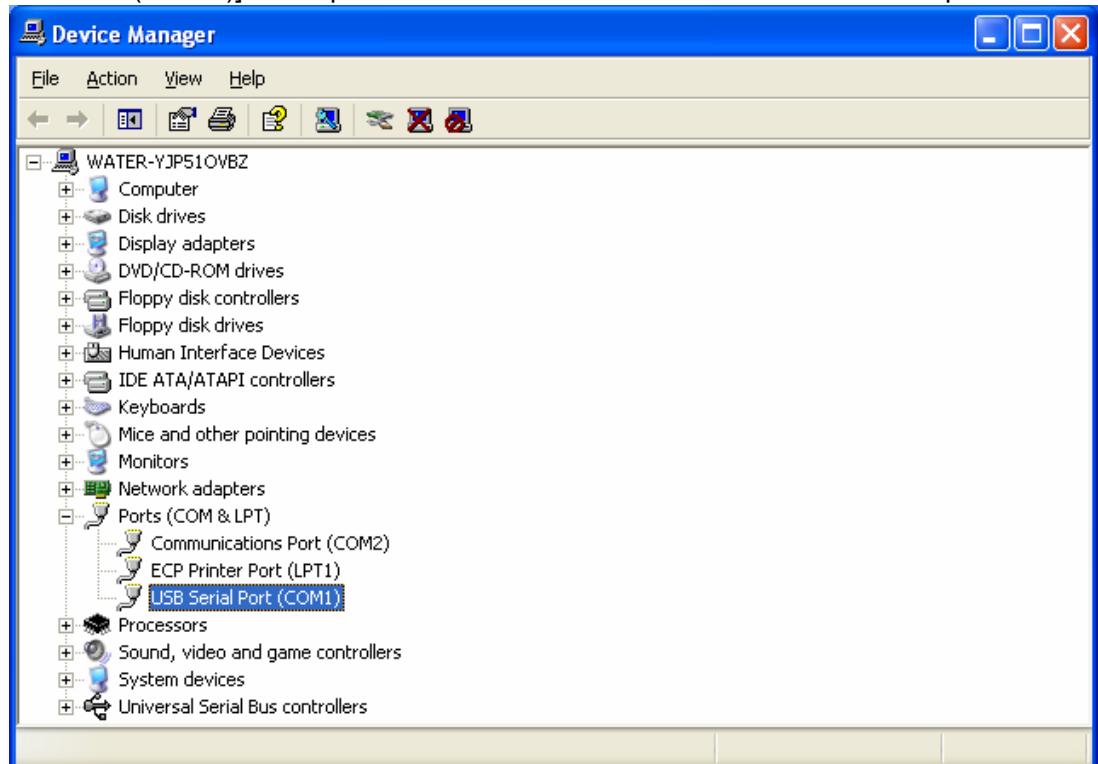
2. Select [System] under the [See Also] menu on the [Printers and Other Hardware] window.



3. Select [Device Manager] under the [Hardware] menu on the <System Properties>.



4. Select [Ports (COM & LPT)] on the <Device Manager>. Check the COM number of [USB Serial Port (COMX)]. Example below shows COM1 as USB communications port.

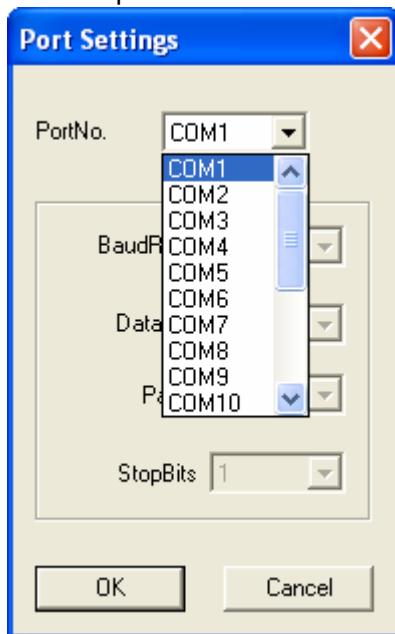


## ● Software settings

1. Select [Port] on the [Settings] menu.



2. Select the port number. COM1 is selected in this example.



The port number can be selected from COM1 to COM19.

## 6 Importing measured data

Measured data can be imported using "import measured data" function. Data is shown in graph and saved as csv format.

See "9 Graph" for graphs, "8.1 Saving file" for saving data.

### Note

- To import measured data, the meter's display unit and sensor probe must be connected and the measurement screen are displayed.
- 10000 data or less can be imported.

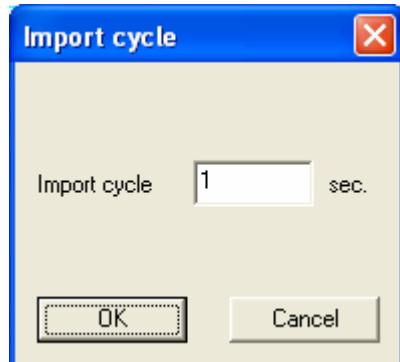
### 6.1 Setting of cycle (time interval) of data import

Time interval of measured data can be set.

1. Select [Import cycle] on the [Settings] menu.

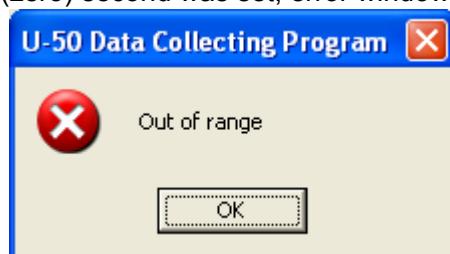


2. Enter time interval between 1 and 9999 seconds, and click [OK].



### Note

If 0 (zero) second was set, error windows are shown.



## 6.2 Importing measured data

1. Select [Import measured data] on the [Data] menu.

You can also import with the [Import measured data] button in the lower portion of the main window.



2. The confirmation screen is displayed. Click [OK] to start importing. .



## 6.3 Stop importing

1. To import data, click [Stop importing] on the [Data] menu.

You can also stop importing with the [Stop importing] button.



2. The confirmation screen is displayed. Click [OK] to stop importing.



## 7 Download

Saved data in meter can be downloaded, and graph can be drawn. Data can be saved as csv format.

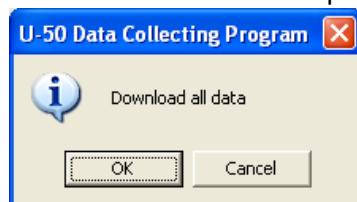
See "9 Graph" for graphs, and "8.1 Saving file" for saving data.

1. Select [Download data] on the [Data] menu.

You can also download data with the [Download data] button.

Download data

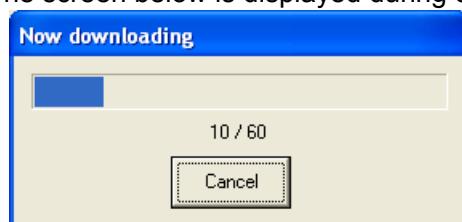
2. A confirmation screen is displayed. Click [OK] to download.



If there is downloaded data, window below is displayed. To download data from the meter again, select [Yes].



3. The screen below is displayed during download. Wait until the download completes.



4. The <Data selection> window appears. Select the data to download and click [Download selected data]. Selected data are displayed in blue. In this example, No. 1 through 5 are selected.

No.	Date	SITE	Latitude	Longitude	
1	2008/08/27 14:28:14	HORIBA	.....	.....	
2	2008/08/27 14:28:24	HORIBA	.....	.....	
3	2008/08/27 14:28:34	HORIBA	.....	.....	
4	2008/08/27 14:28:44	HORIBA	.....	.....	
5	2008/08/27 14:28:54	HORIBA	.....	.....	
6	2008/08/27 14:29:04	HORIBA	.....	.....	
7	2008/08/27 14:29:14	HORIBA	.....	.....	
8	2008/08/27 14:29:24	HORIBA	.....	.....	
9	2008/08/27 14:29:34	HORIBA	.....	.....	
10	2008/08/27 14:29:44	HORIBA	.....	.....	
11	2008/08/27 14:29:54	HORIBA	.....	.....	
12	2008/08/27 14:30:04	HORIBA	.....	.....	

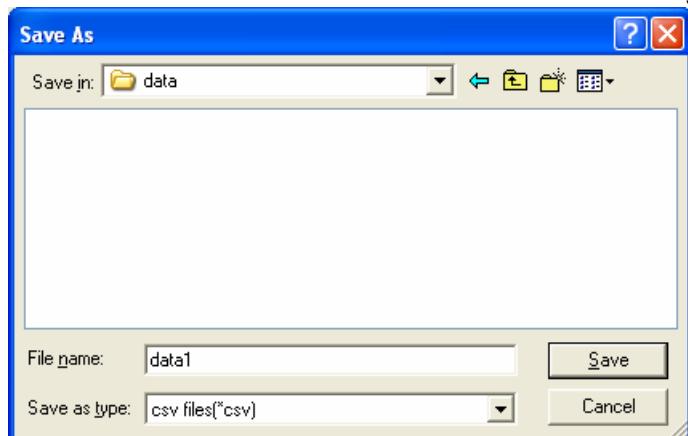
Deselect All select Delete selected data Download selected data Close

## 8 Saving and opening files

### 8.1 Saving file

You can save imported data with the software as csv format.

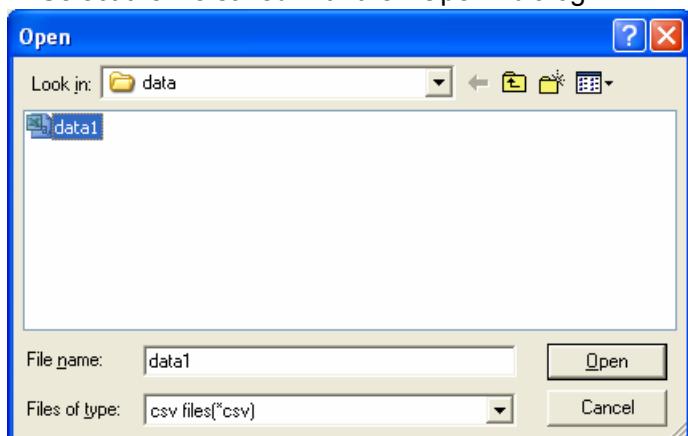
1. Select [Save] on the [File] menu.
2. Select the folder to save to with the <Save As> dialog, and enter a file name and save.



### 8.2 Open file

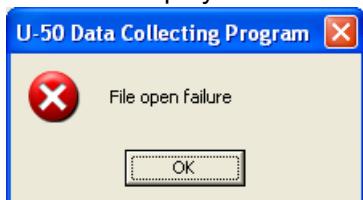
You can load data saved.

1. Select [Open] on the [File] menu.
2. Select the file saved with the <Open> dialog.



#### Note

- You can only open csv files saved.
- Files opened by other programs cannot be opened with this software. The error message below is displayed.



### 8.3 Format of csv file

Files saved with this software are made up of the data below.

Column	Data	Explanation	
1	No.	Data Number	
2	SITE	SITE	
3	Date	Date and time the data was acquired When importing measured data: acquired from the computer's clock	
4	Time	When downloading data: acquired from the meter's clock	
5	Latitude	Latitude acquired with GPS	
6	Longitude	Longitude acquired with GPS	
7	Probe error	Meter error For error details, see instruction manual of the meter.	
8	Temperature	Value	Temp value
9		Unit	Temp unit
10		Error	Temp error information
11	pH	Value	pH value
12		Unit	pH unit
13		Error	pH error information
14	pHmV	Value	pHmV value
15		Unit	pHmV unit
16		Error	pHmV error information
17	ORP	Value	ORP value
18		Unit	ORP unit
19		Error	ORP error information
20	Conductivity	Value	Cond value
21		Unit	Cond unit
22		Error	Cond error information
23	Turbidity	Value	Turb value
24		Unit	Turb unit
25		Error	Turb error information
26	Dissolved Oxygen	Value	DO value
27		Unit	DO unit
28		Error	DO error information
29	TDS	Value	TDS value
30		Unit	TDS unit
31		Error	TDS error information
32	Salinity	Value	Salinity value
33		Unit	Salinity unit
34		Error	Salinity error information
35	Specific gravity	Value	SG value
36		Unit	SG unit
37		Error	SG error information
38	Depth	Value	Depth value
39		Unit	Depth unit
40		Error	Depth error information
41-54	:	Information to open the file with the software.	

#### Note

- The title, csv file version, and amount of data is saved in the first line.

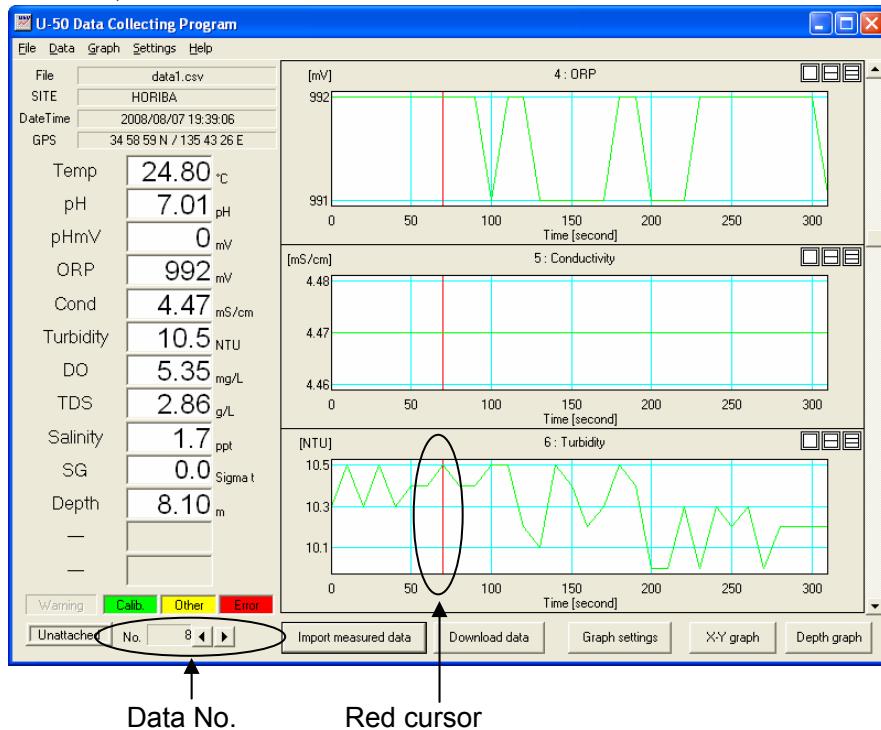
## 9 Graph

A graph of imported data or downloaded data is displayed in the main window. You can set the graph type and create an X-Y graph and depth graph.

### 9.1 Main window graph

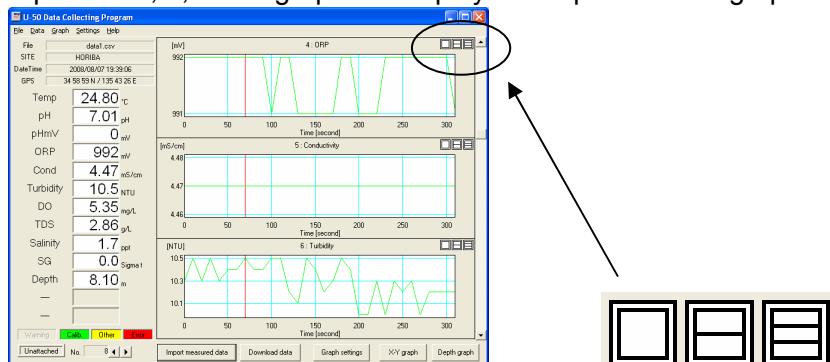
#### 9.1.1 Cursor

A red cursor indicates the position of measured data displayed on the left side. If you forward data No., the cursor moves.



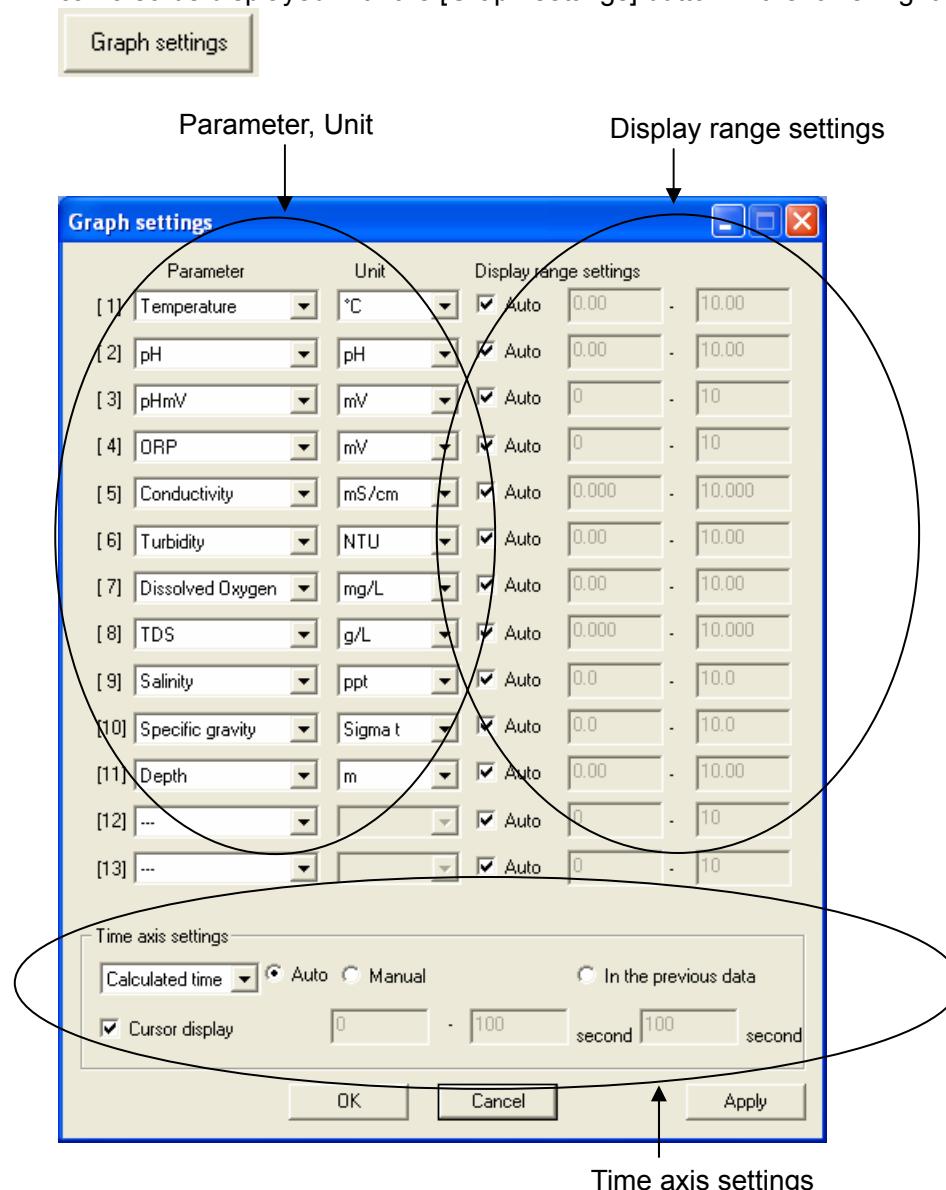
#### 9.1.2 Setting of the number of graphs displayed

You can select the number of graphs to display in the main window from 1 to 3 graphs. The selection can be made from [Disp numbers] on the [Graph] menu. The selection can also be made from the icons displayed in the upper-right of the graph. From the left, the icons represent 1, 2, and 3 graphs to display. Example shows 3 graphs.



### 9.1.3 Graph settings

Select [Settings] on the [Graph] menu to display the settings window. The settings window can also be displayed with the [Graph settings] button in the lower-right of the main window.

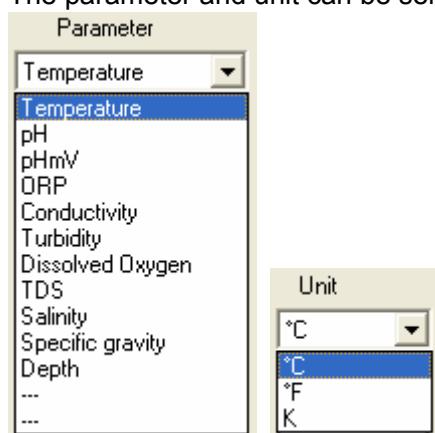


#### Note

The range cannot be directly entered when [Auto] is checked.

## ● Parameter, unit

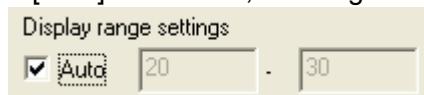
The parameter and unit can be selected.



## ● Display range settings

You can set the range of vertical axis of the graph.

If [Auto] is checked, the range is automatically determined from the data.



If [Auto] is unchecked, the upper and lower limit values can be entered. In this example the lower limit is 20, the upper limit is 30.



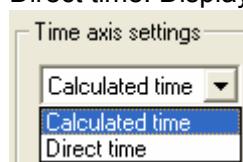
## ● Time axis settings

You can set the time axis of the graph.

### 1. Select the display format.

Calculated time: Displays the time axis as the elapsed time from the oldest data.

Direct time: Displays the time axis as the time the data was acquired.



### 2. Set the range of the horizontal axis of the graph.

If [Auto] is checked, the range is automatically determined from the data.



If [Manual] is checked, the upper and lower limit values can be entered. In this example the lower limit is 0, the upper limit is 10. The unit is seconds.

Auto  Manual  In the previous data

-  second  second

If [In the previous data] is checked, the graph is displayed with data going back from the newest until the entered time.

Auto  Manual  In the previous data

-  second  second

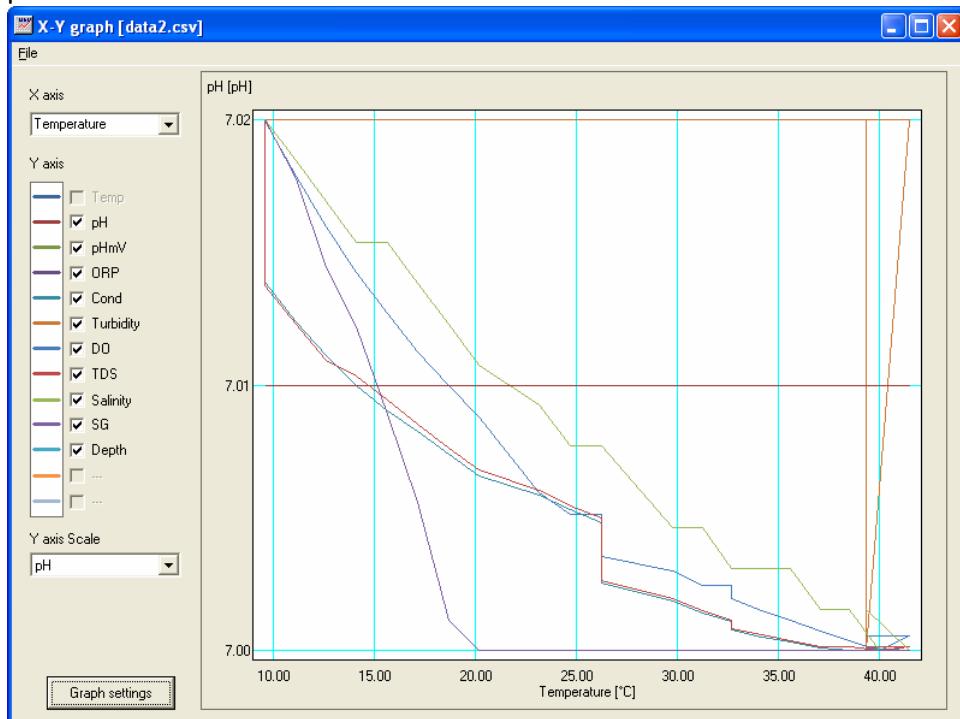
### ● Cursor display

If [Cursor display] is checked, the cursor is displayed. When unchecked, the cursor is not displayed.

Cursor display

## 9.2 X-Y graph

You can set one parameter as the horizontal axis and check the correlation with other parameters.



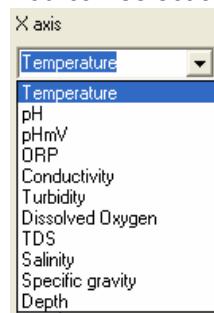
### 9.2.1 Displaying the X-Y graph

Click [X-Y graph] on the lower-right of the main window to display the <X-Y graph> window. You can also display the X-Y graph with [X-Y graph] on the [Graph] menu.

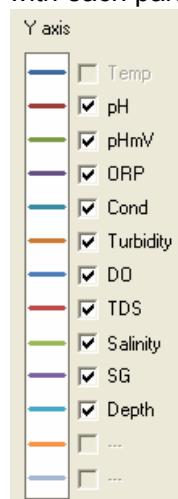
X-Y graph

### 9.2.2 X-Y graph explanation

You can select a single parameter for the X axis (horizontal axis).

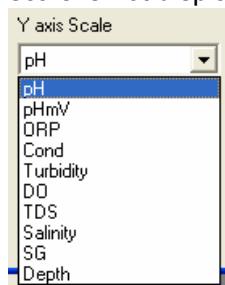


For the Y axis (vertical axis), you can select parameters other than the parameter selected with the X axis. Temperature is selected for the X axis in this example. Graphs are displayed with each parameter color-coded.



The scale of the vertical axis is displayed as the scale of the parameter selected with [Y axis Scale].

For the other parameters, they are displayed in the scale set with [Graph settings], but the scale is not displayed.

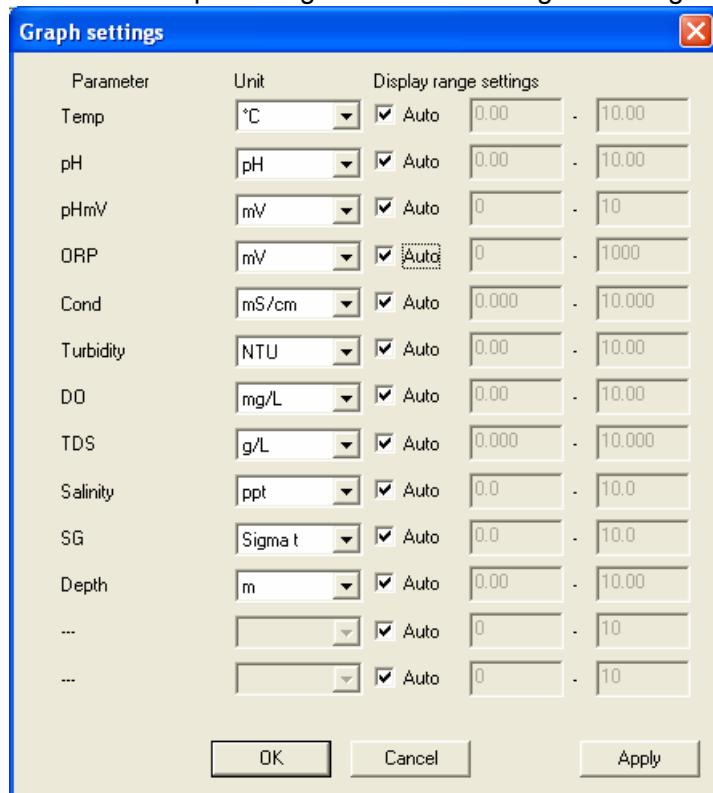


### 9.2.3 Graph settings

You can set the graph by clicking [Graph settings] in the lower-left of the <X-Y graph> window.

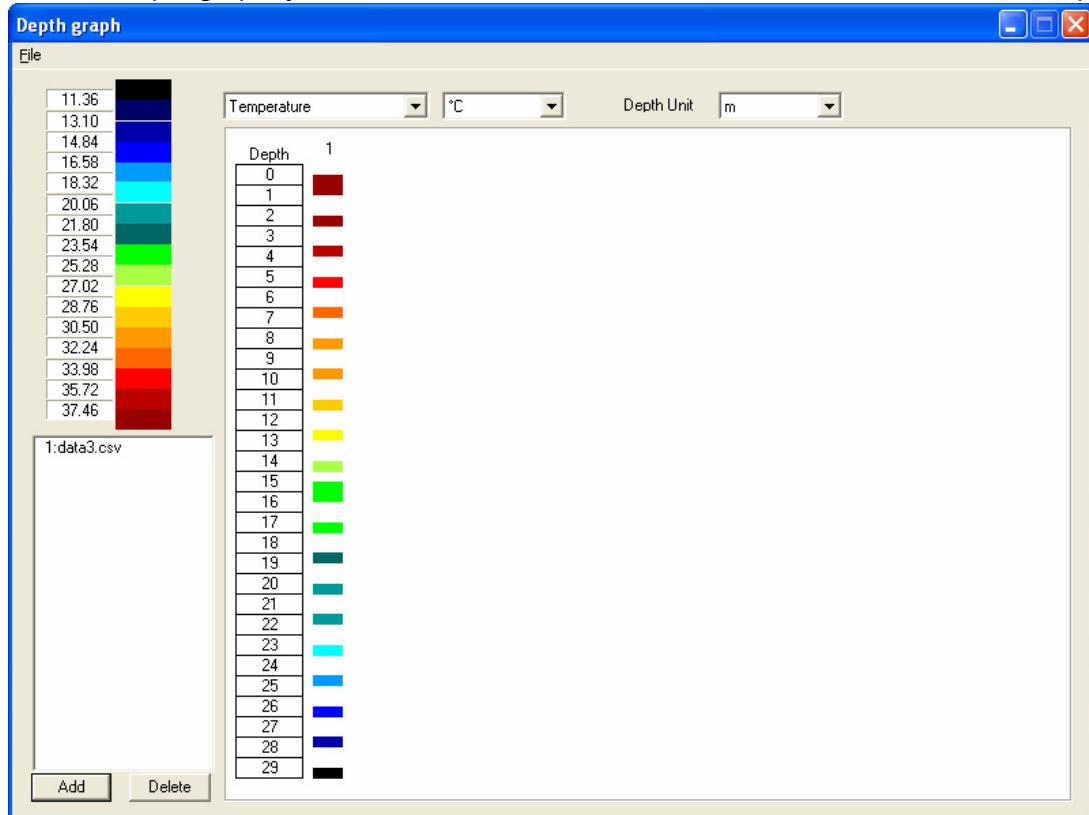
Graph settings

See "9.1.3 Graph settings" for how to configure settings.



## 9.3 Depth graph

With the depth graph, you can check the correlation between measured values and depth.



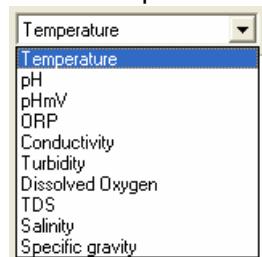
### 9.3.1 Displaying the depth graph

Click [Depth graph] on the lower-right of the main window to display the <Depth graph> window. You can also display the depth graph with [Depth graph] on the [Graph] menu.

Depth graph

### 9.3.2 Depth graph explanation

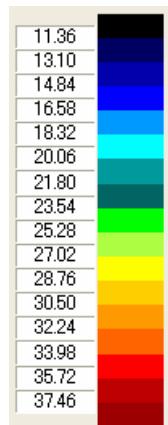
Select the parameter that you wish to check the correlation of to depth.



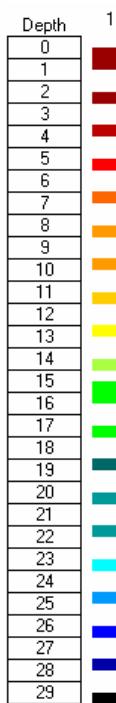
- Select units of parameter and depth.



The colored relationship with the selected parameter data is displayed.



The correlation between the selected parameter and the depth is displayed in color. The value displayed in the depth indicates the upper end of the range. In other words, depth 0 is 0 to 1 m, depth 29 is 29 to 30 m.



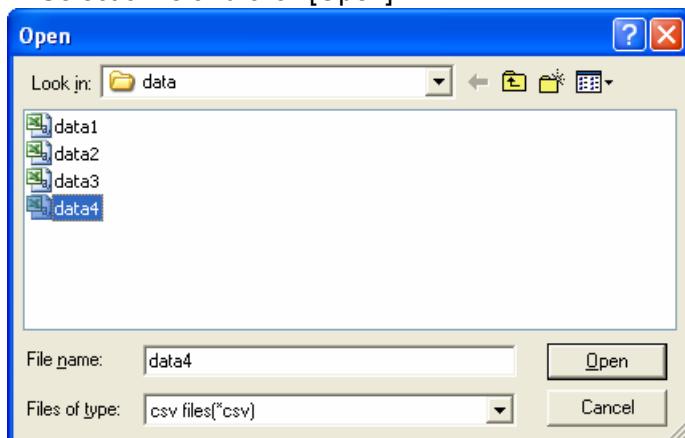
### 9.3.3 Add/delete data

You can add data to the graph by clicking [Add] on the lower-left of the <Depth graph> window and selecting a csv-formatted file saved with the software.,.

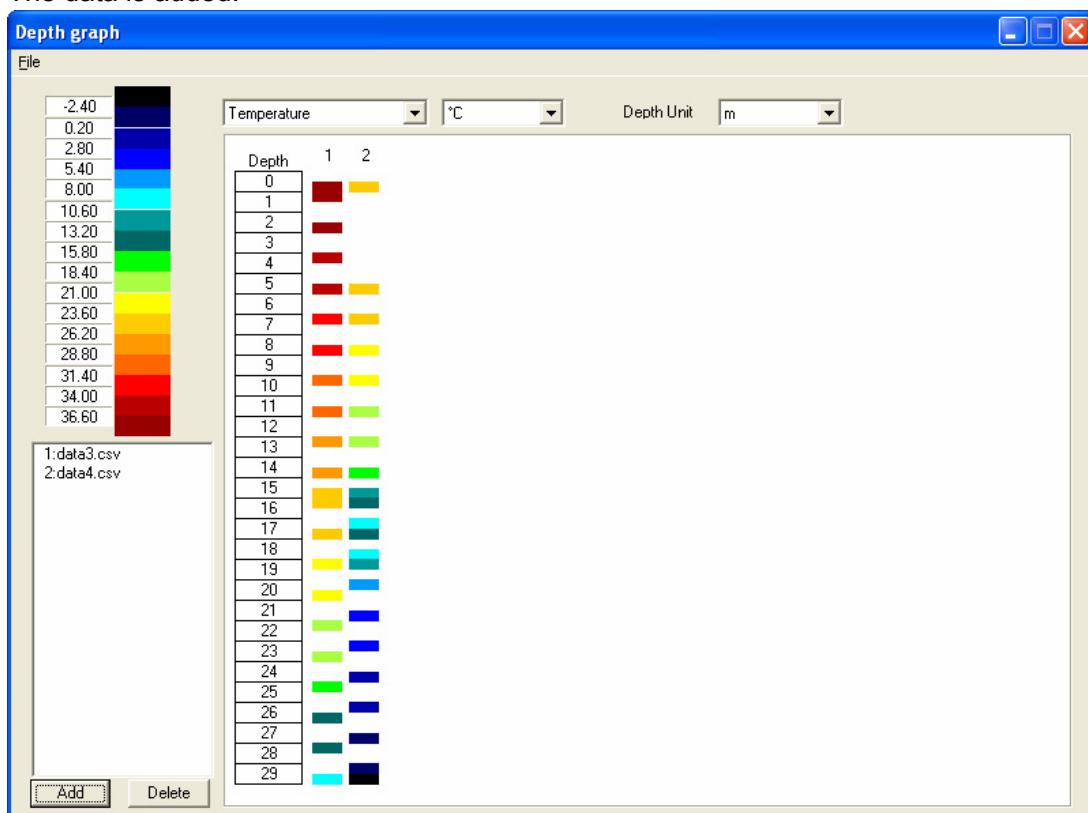
1. Click [Add].



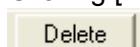
2. Select a file and click [Open].



The data is added.



Clicking [Delete] to delete the data.



## 10 Troubleshooting

In case of troubles while using the software, first check the items listed below. If the problem is not resolved after performing these procedures, please contact to your local agency.

### 10.1 Checklist

Problem	Check here	Try this	Reference
You cannot install the software.	Free hard drive space is not sufficient.	Ensure enough free space.	2.4 (p. 3)
You cannot run the software.	The install was not finished correctly.	Reinstall the software.	3.1 (p. 4)
	Free hard drive space is not sufficient	Ensure enough free space.	2.4 (p. 3)
	The communication cable is broken.	Replace the communication cable.	
you cannot measure.	The connected port and set port are not the same.	Verify the connected port and set it correctly.	5 (p. 21)
	The meter is not turned ON.	Check the battery level, cycle the meter's power.	U-50 series Instruction manual
	The display unit and sensor probe are not connected.	Connect the display unit and sensor probe.	U-50 series Instruction manual
	The cable is broken.	Replace the cable.	
	Communication is blocked by noise.	Restart the computer and meter, and start up the software again.	
You cannot download.	The connected port and set port are not the same.	Verify the connected port and set it correctly.	5 (p. 21)
	The meter is not turned ON.	Check the battery level, cycle the meter's power.	U-50 series Instruction manual
	The cable is broken.	Replace the cable.	
	Communication is blocked by noise.	Restart the computer and meter, and start up the software again.	

### 10.2 To contact your local agency

When you want to contact your local agency, please check the items below in advance.

- Date/time the problem occurred
- Specify the problem
- Model of the meter used
- Computer specification (CPU, memory, free hard drive space, OS)
- Software version
- Other questions, requests

- **Checking the version**

You can check the version information by selecting [About] on the [Help] menu.





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