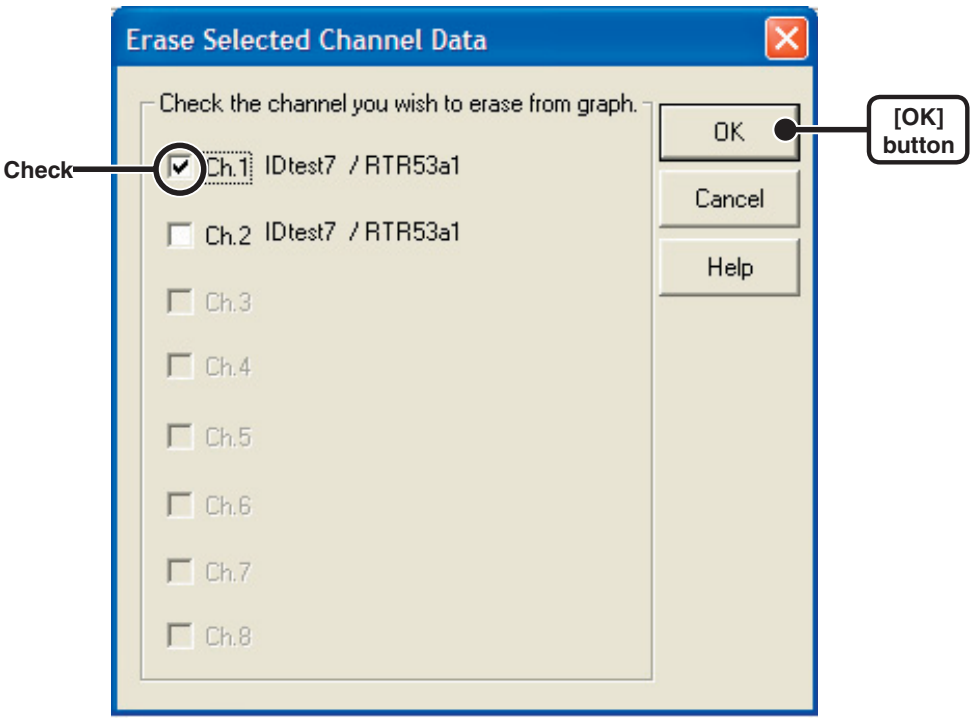
■ Erase Selected Channel Data : From the [Tools] Menu

1. Put a check on the channel number you wish to erase.

2. Click the [OK] button to complete the deletion.



■ Set Vertical Axis Display Range: From the [Tools] Menu

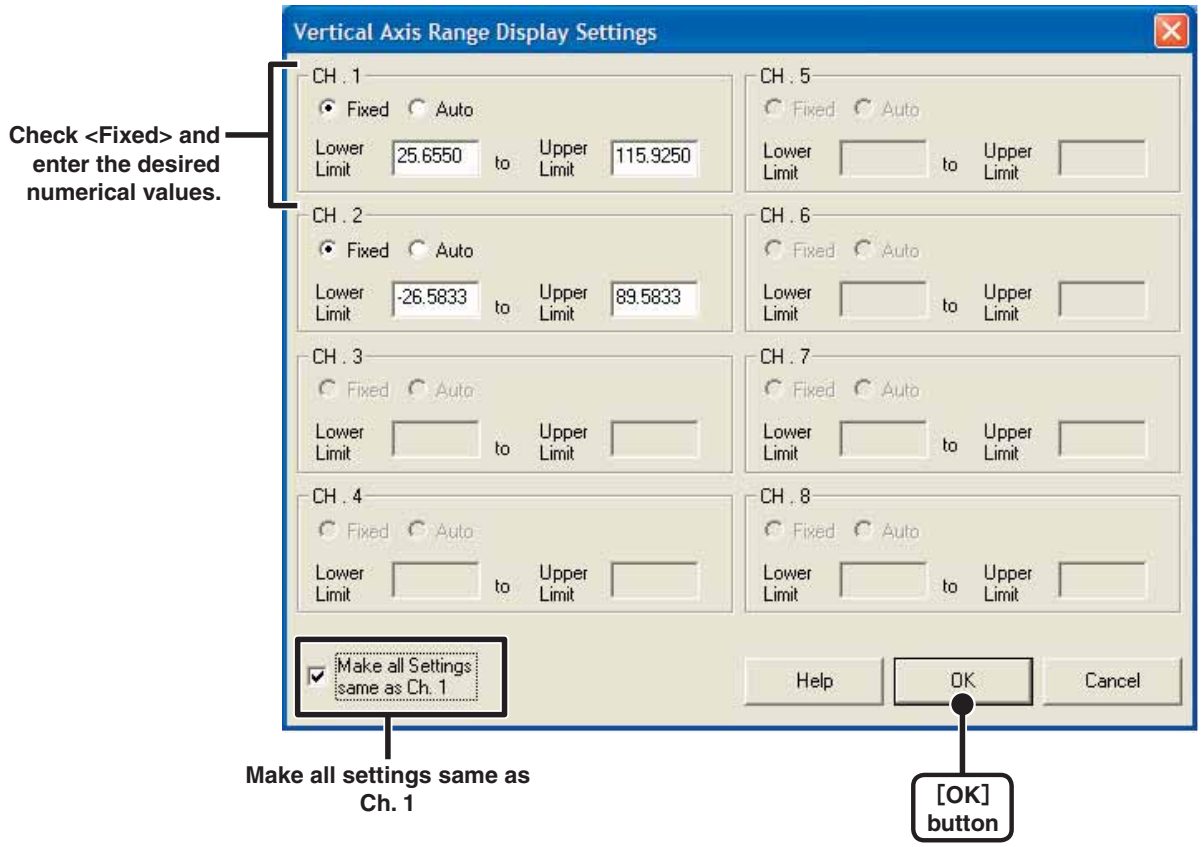
It is possible to set the upper and lower values of the vertical axis scale for each channel.

NOTE:

- In this case, the data graph lines may under certain circumstances stick out of the graph.

- Settings for the upper limit must be lower than 40,000 and settings for the lower limit must be higher than –40,000.

1. Put a check next to <Fixed> for the channel you wish to make settings for.



2. Enter the Upper and Lower Limits.

3. Click the [OK] button to finish the setting process.

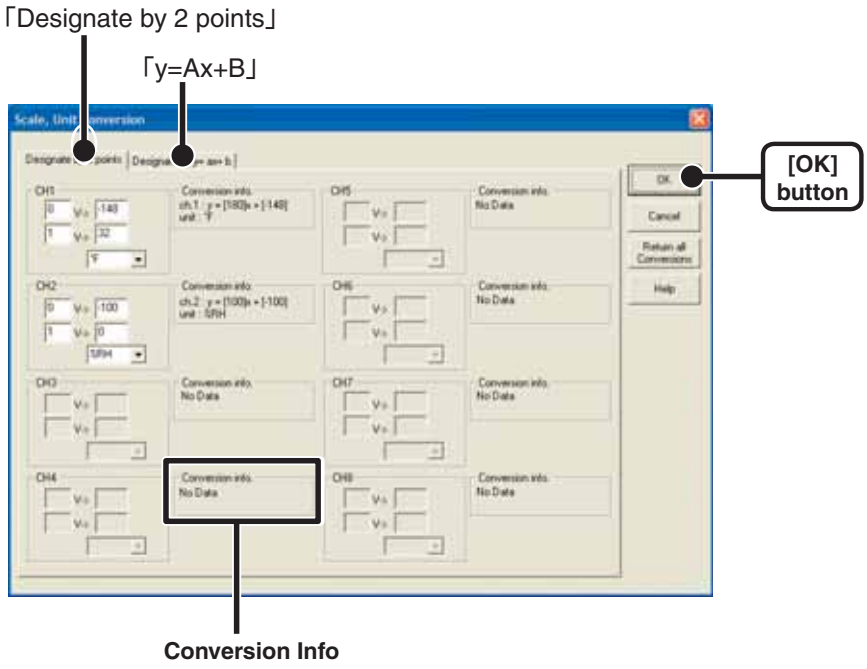
【Make all settings same as Ch. 1】

If you have chosen fixed values for Ch.1 and put a check next to [Make all settings same as Ch. 1], the settings will become the same for all other channels whether that channel has been set to “Fixed” or “Auto”.

■ Scale / Unit Conversion: From [Tools] Menu

It is possible to make settings for the conversion of units and scales for each channel of downloaded data.

1. Select to use 2 voltage points to convert the scale or to use the conversion equation of y=Ax+B.



2. Make settings for the conversion equation and unit.

3. Click the [OK] button to finish the setting process.

【Conversion Info】

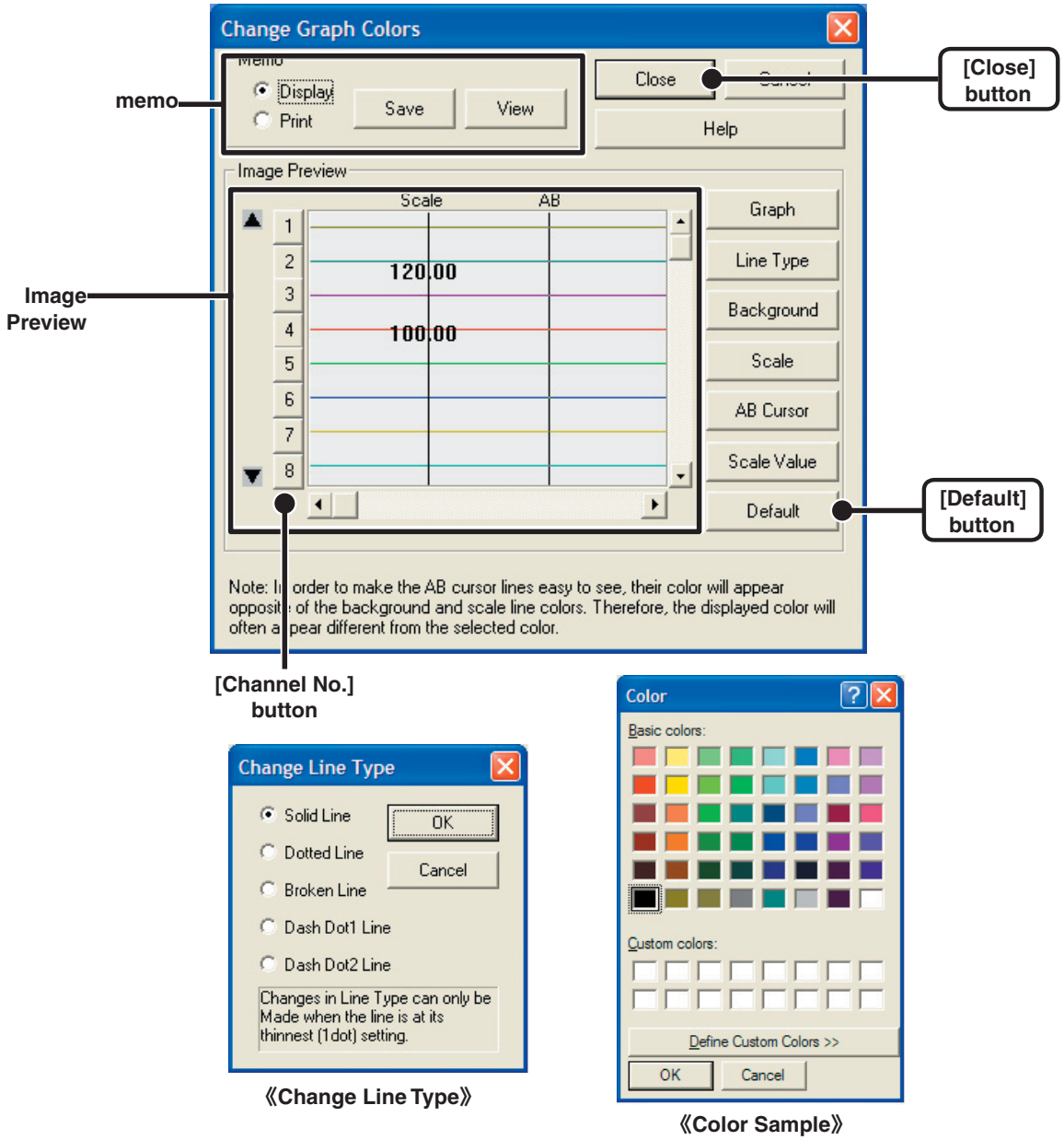
The currently set conversion equation and the character array of the current unit will be displayed.

By stands for the value after conversion and x is the voltage input directly from the sensor.

■ Change Graph Colors : From the [Tools] Menu

1. Click the channel number or item for which you wish to make changes.

If you wish to change the color: click the appropriate button to view the color selection samples.
If you wish to change the type of line: click the [Line Type] button to view the line type selections.
If you wish to make changes to the width of the lines: In the image preview display, first click on a channel number button to select the channel and then each click of the ▲ button will make that channel's line wider and each click of the ▼ button will make it thinner.



**If you wish to make changes to the graph colors, line types, or line widths, click on the [Channel No.] button first and then click on the topic you wish to make changes to.*

2. After confirming the color in the image preview display, click the [Close] button to complete the changes.

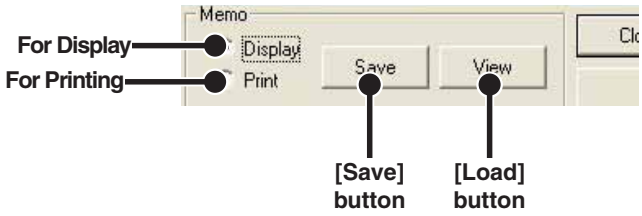
**By clicking the [Default] button, you will return to the color settings to the Default settings.*

【memo】

Here it is possible to save one pattern of settings for use in the display and one for use when printing .

1. Select [Display] or [Print].

2. Click the [Save] button to save the settings.



By clicking the [Load] button, you can call up a saved pattern.

Operating the Graph Display

■ Returning to Original Size

Return from zooming in on one part of data to the original whole graph size.

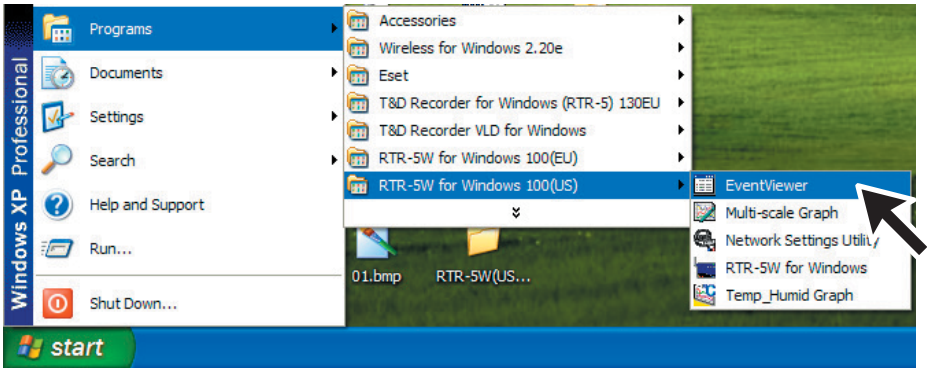
■ Zoom out step by step

Return by regular steps from zooming in on one part of data to show larger ranges of data.

How to Operate the Event Viewer

■ How to Open

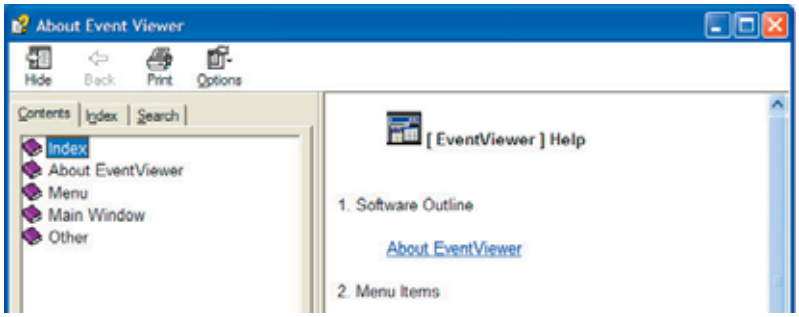
From the list of programs in the Window's Start Menu, click on "RTR-5W for Windows" - "Event Viewer"



■ Using Help

For details about how to use the software, please see the explanations in the Software Help Menu.

-In the Menu Bar, click [Help] - [Search by Topic], then click on one of the tabs [Contents], [Index], or [Search] to search for the topic or term you are unsure about or have questions about.



[Contents]

By clicking on one of the topics listed, you can find detailed information for that subject.

[Index]

By selecting a Keyword in the Keyword list, and clicking the [Display] button at the bottom, a detailed explanation will appear.

[Search]

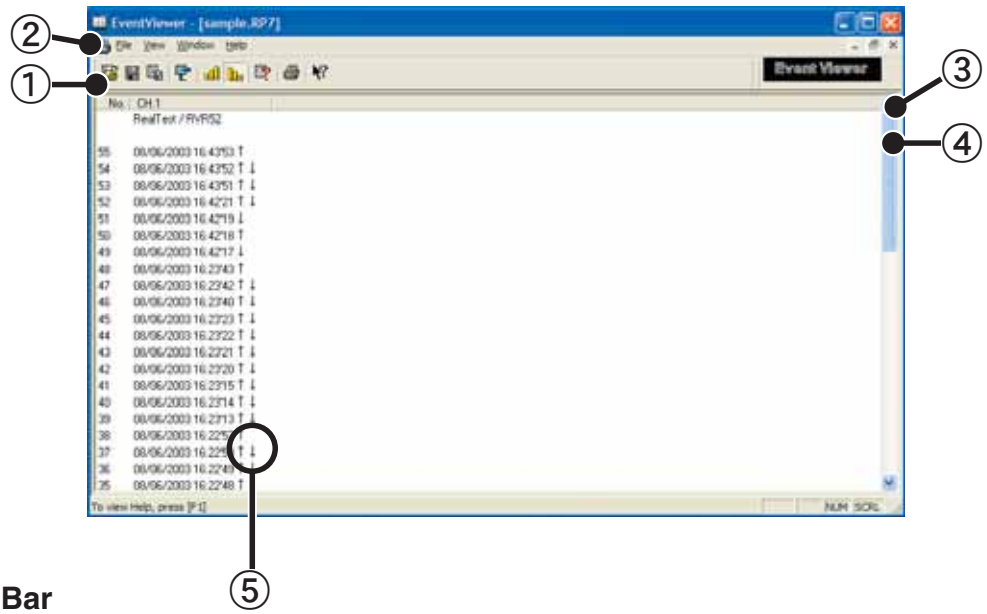
Enter the keyword you wish to search for and click the [List Topics] button. All topics that contain the keyword will be displayed. By selecting a topic and clicking the [Display] button at the bottom, a detailed explanation will appear.

-By clicking the help button in a dialog box, an explanation for that dialog box will appear

-In the Graph Window, by clicking on the in the toolbar, you can have short explanations appear the next time you click on a menu, an icon, or anything in the main window.

■ Event Viewer Display Part Names and Functions

With Event Viewer you can view Recorded Event Time Data in a List (up to 64 channels), Print the List, or Save as Text File.



① Menu Bar

Menus are lined up which contain various commands. They are used to view data or to make settings for the various functions in each menu.

↑ Icon: View only rising edge data This includes when there was a simultaneous occurrence of rising and falling.

↓ Icon: View only falling edge data.This includes when there was a simultaneous occurrence of rising and falling.

↑ ↓ Icon: View all Data

② Toolbar

Buttons appear for frequently used commands.

③ Button for Moving Vertical Axis

Click the arrow buttons to move up or down.

④ Scroll Bar

By dragging the Scroll Bar you can move up and down to the desired position.

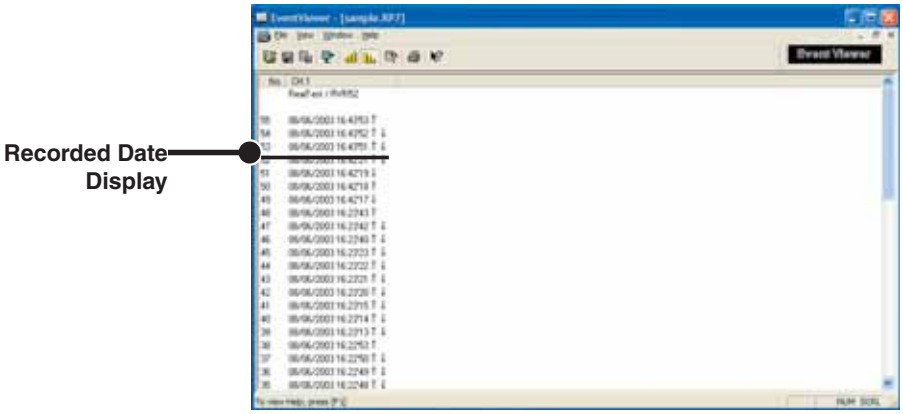
⑤↑ / ↓ / ↑ ↓

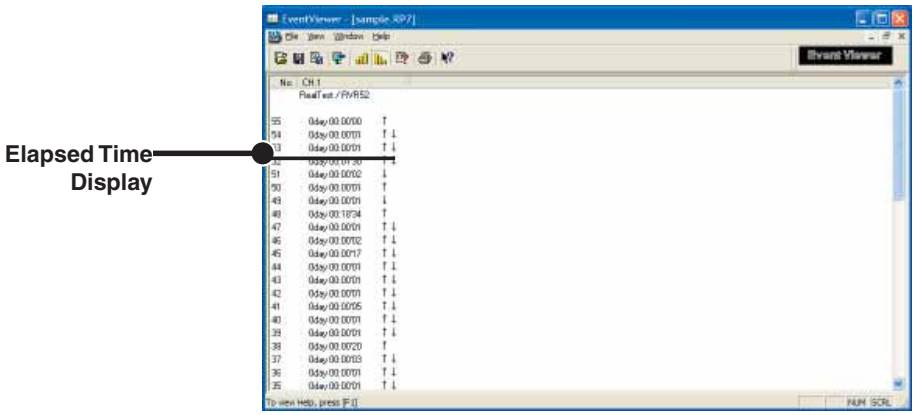
View ↑ rising (Lo to Hi) waves, ↓ falling (Hi to Lo) waves, or ↑ ↓ both types

Change the Event Viewer Method of Display

■ Shift Display: From the [View] Menu or the Toolbar

You can shift the display to view either by the recorded date/time or by the elapsed time from the last recorded data.



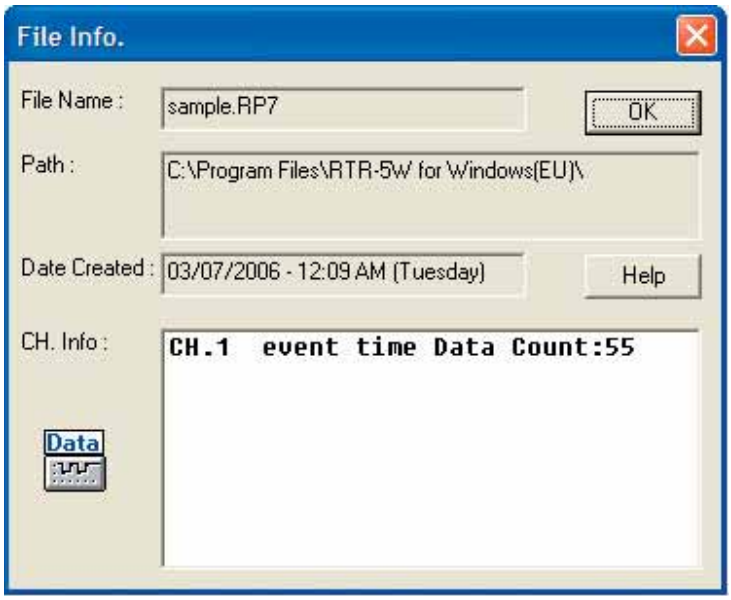


■ Shift Descending / Ascending: From the [View] Menu or the Toolbar

You can shift the display to view the recorded data either from the newest to the oldest or from the oldest to the newest.

■ File Info: From the [View] Menu

View file info about data in the currently displayed data list.



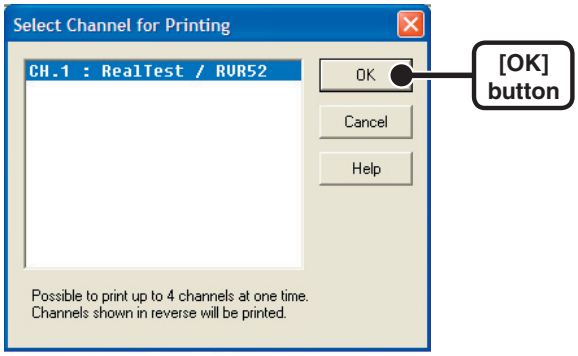
File Name: File names of the data files currently displayed in the data list.
Path: The Location where the File is saved
Date Created: The date and time when the data file was created.
CH. Info Channel No. / Recording Mode / No. of Data Readings

Print Preview and Print

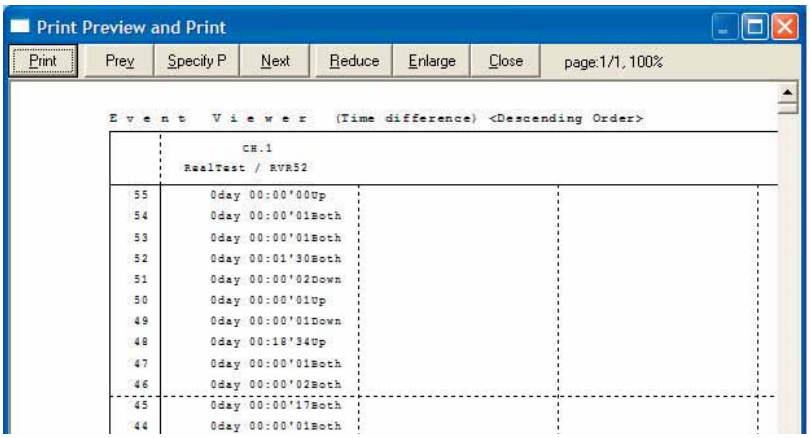
Preview only that data which was selected and print.

1. In the [File] Menu, select [Print Preview and Print]

2. In the [Select Channel for Printing] File list, select the channels you wish to print and click the [OK] button.



3. The [Print Preview] will be displayed.After confirming, click the [Print] button to start the printing.



【Button Functions】

[Print]: the [Print] box will appear and printing will begin.

[Previous]: Preview the previous page.

[Specify P]: Specify the page you wish to preview in the [Specify Page to be Viewed] box and a preview of that page will appear.

[Next]: Preview the next page.

[Reduce]: Reduce the size of the displayed page.

[Enlarge]: Enlarge the size of the displayed page.

[Close]: Close the Print Preview Window and return to the Main Window.

Saving Recorded Data

If you have edited any graph displayed data we suggest that you save it as necessary.

■ **3 Ways to Save Files**

-In the [File] Menu, select [Overwrite All Data]

Will save any changes to file without changing File Name and Saving Location.

The same operation can be carried out from [Save] in the Toolbar.

-In the [File] Menu, select [Save All Data as...]

Save with a new File Name.

-In the [File] Menu, select [Save Displayed Data]

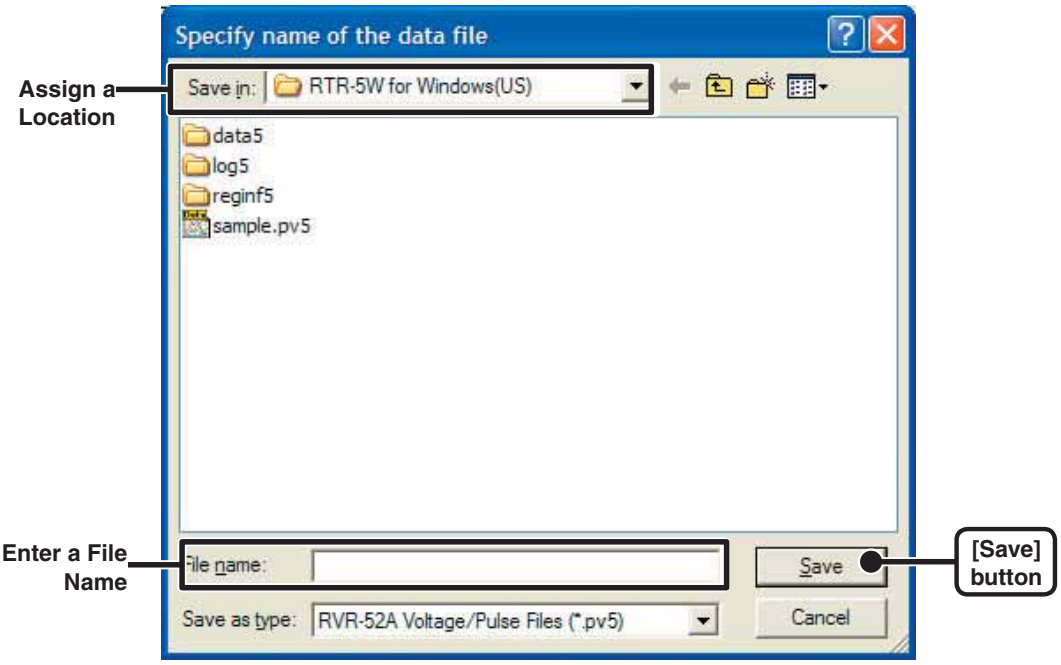
Save only that data in the current display.This is handy when you wish to save only the desired data.

EX: [Save All Data as...]

1. Click [Save All Data as...] in the [File] Menu.

2. Specify the [Location] and enter a [File Name].

3. Click [Save] to complete the saving process

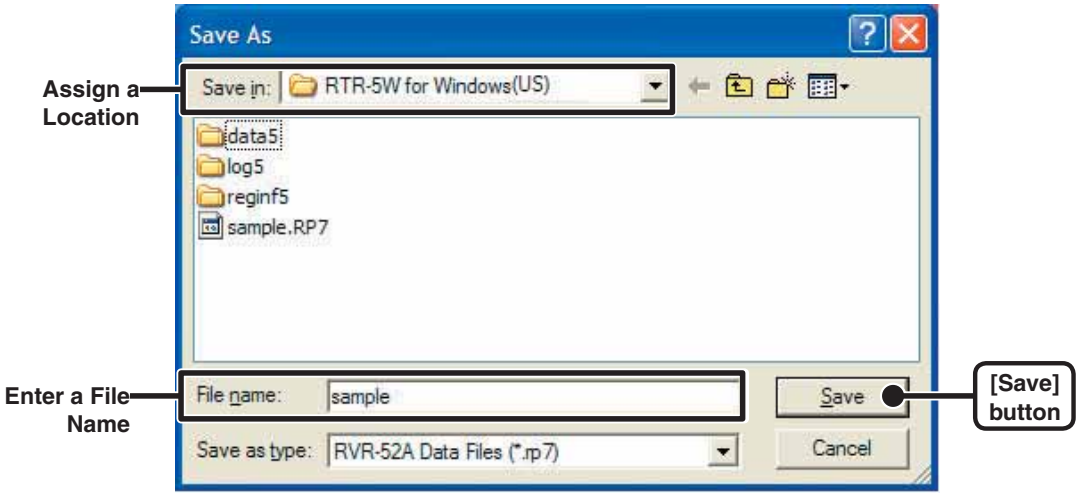


【For Event Viewer】

When using Event Viewer only [Save Data as···] can be used.

1. Click [Save Data as...] in the [File] Menu.

2. Specify the [Location] and enter a [File Name].



3. Click [Save] to complete the saving process

Creating Text File

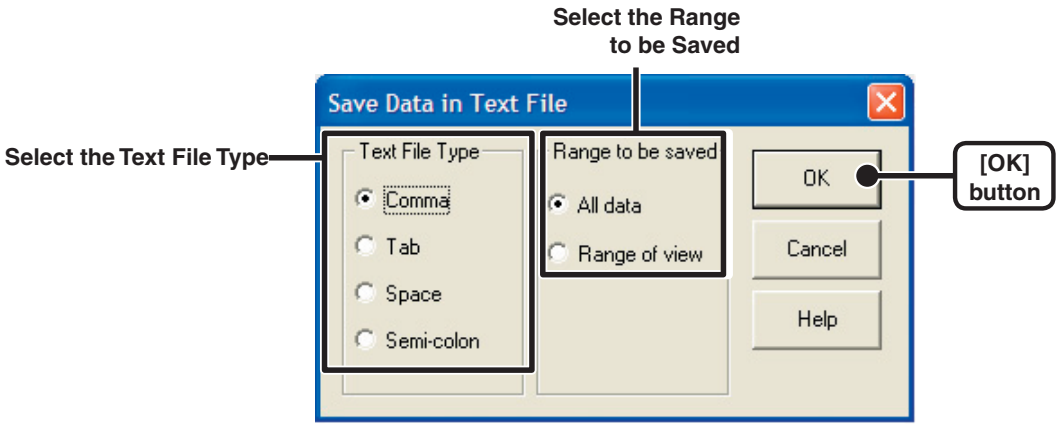
By saving the recorded data as text file, you can create a file type that can be read by common spreadsheet software.

1. Click [Save in Text File] in the [File] Menu.

2. Select the [Text File Type] and [Range to be Saved], and click [OK].

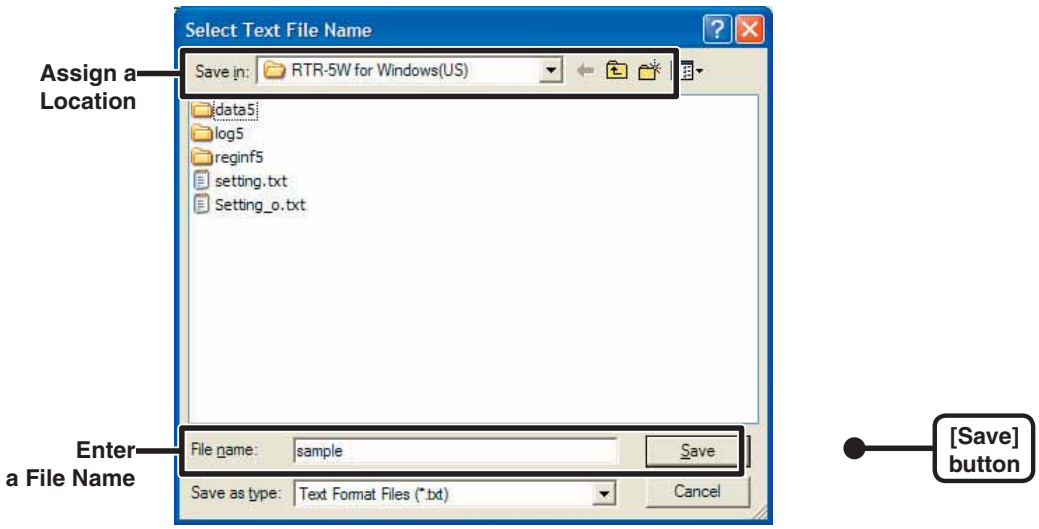
-Comma, Tab, Space, and Semi-colon are codes used by common spreadsheet software, such as Excel and Lotus, when reading Text File to divide cells.

3. Designate the location to which the file should be saved and click [Save] to create and save the data as a Text File document.



-The extension for the created file will be [.txt].

** Text File cannot be read into [Temp / Humidity Graph] or [Multi-scale Graph]*

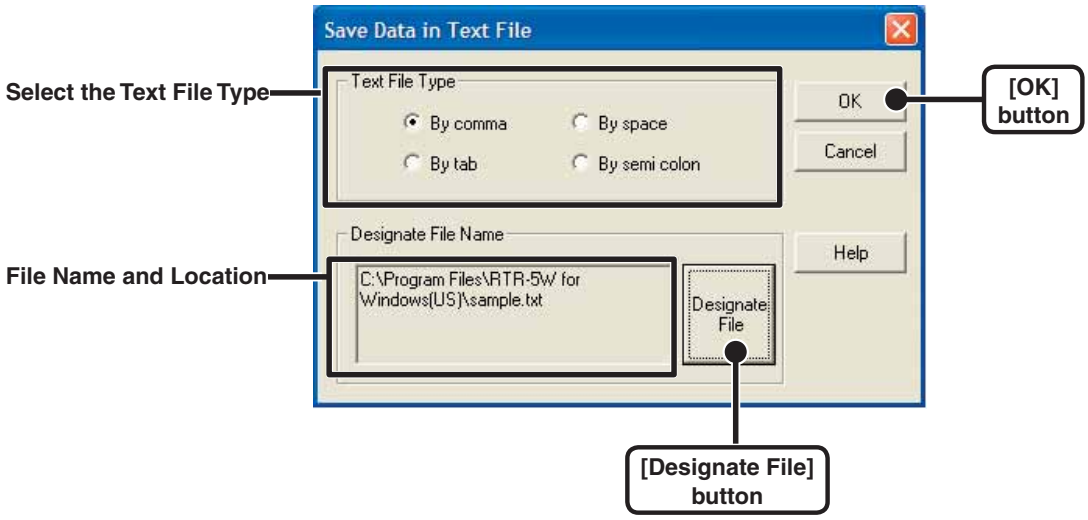


【For Event Viewer】

1. In the [File] Menu, click [Save in Text File] .

2. Select the [Text File Type], click [Specify File] button and specify the saving location.

**Comma, Tab, Space, and Semi-colon are codes used by common spreadsheet software, such as Excel and Lotus, when reading Text File to divide cells.*



3. Click the [OK] button to finish the creation of the text file document.

-The extension for the created file will be [.txt].

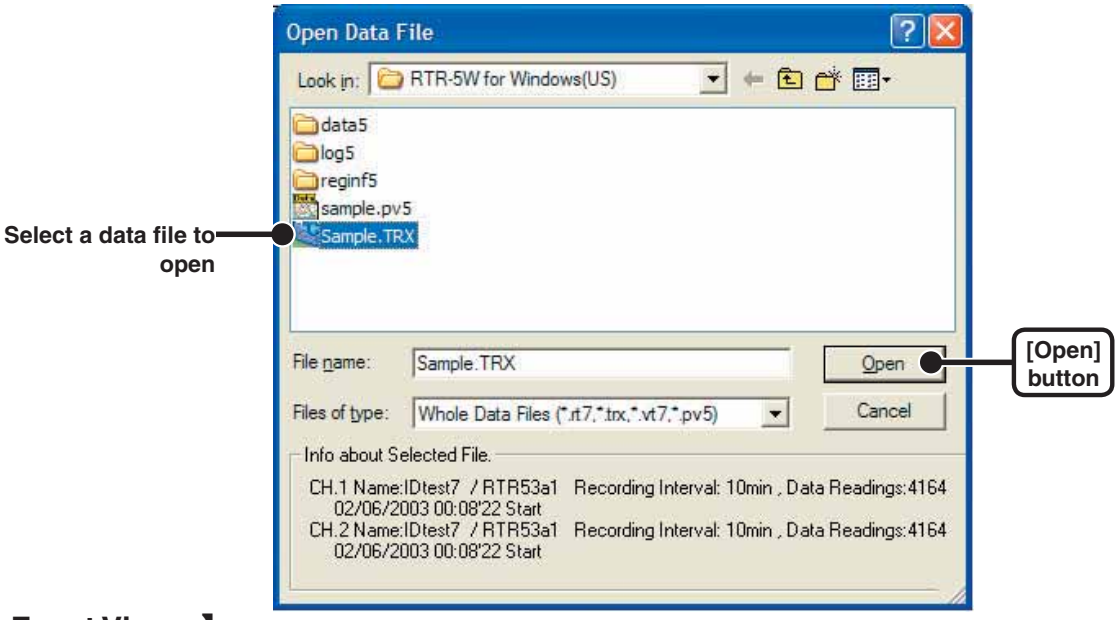
**[Event Viewer] cannot read text type files.*

Opening a Saved File

To open a previously saved file, designate the file name to open it.

1. Click [Open] in the [File] Menu of the Graph Display.

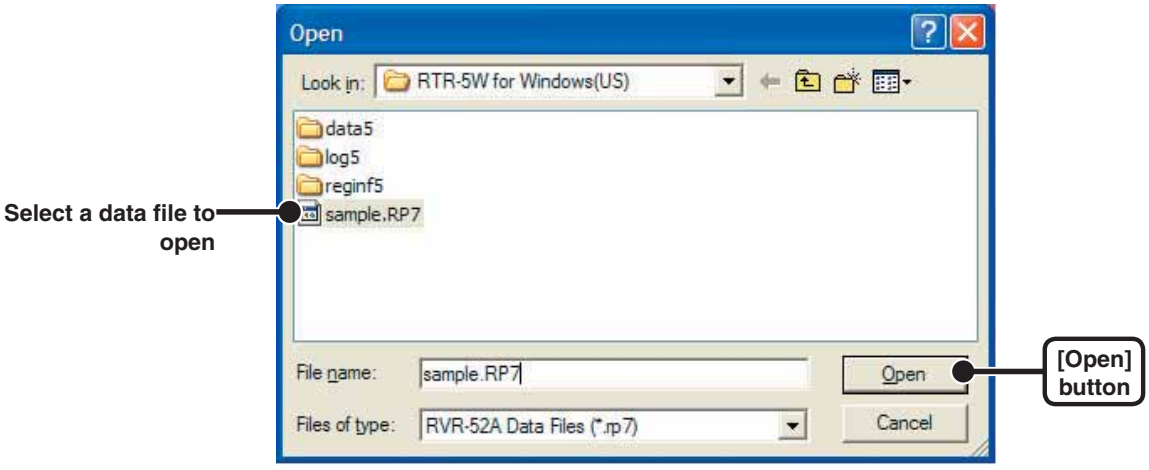
2. Select the name of the data you wish to open and click [Open] to view the data in graph form.



【For Event Viewer】

1. Open Event Viewer

2. In the [File] Menu of the Event Viewer display select [Open File] and a list will appear.



Auto-Download Settings

Make settings here to automatically download data from the selected Remote Units at the specified time.

1. Open [RTR-5W for Windows].

2. Select the Remote Unit(s) you wish to make settings for, and in the [Registration / Administration] Menu click on [Remote Unit Properties].

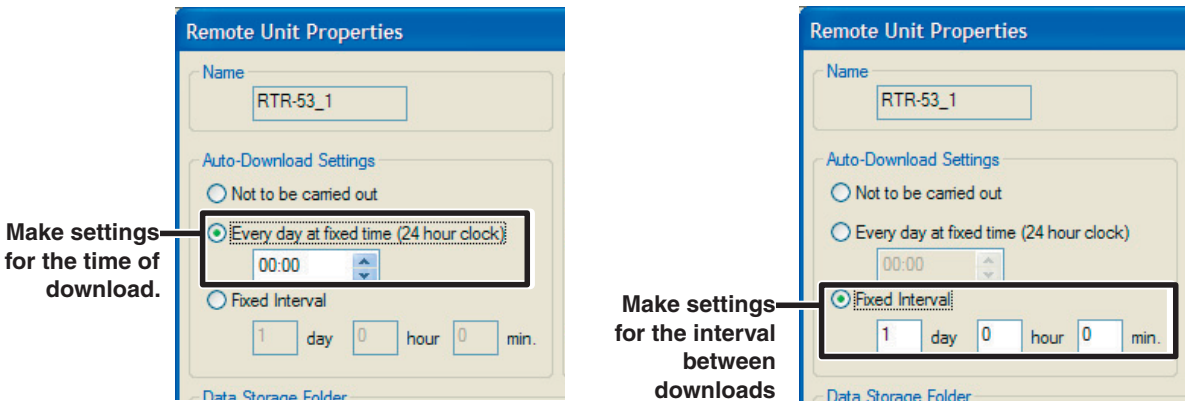
**By right clicking on the selected Remote Unit icon(s), a popup menu will appear where you can select [Remote Unit Properties] to display the same window.*

3. Select to download [Every day at a fixed time] or [Fixed Interval] and make the appropriate settings.

-Every day at fixed time (24 hour clock)
Carry out the downloading of data automatically at a set time every day

-Fixed Interval
Carry out the downloading of recorded data automatically at a set interval of time.(Make setting for 10 days or less)

4. Click the [OK] button to finish the setting process.



NOTE:

-Make sure that RTR-5W for Windows is open when a programmed Auto-Download is scheduled to occur.

-If, another type of communication, such as a warning monitoring, occurs at the scheduled downloading time and downloading is not possible, downloading will begin upon the ending of the other communication.

-Depending on radio wave conditions, data downloading may at times be impossible. Please check in the downloading log for important data.

-If the recording mode is set for One Time and the logger becomes full, you may be downloading the same data over and over again

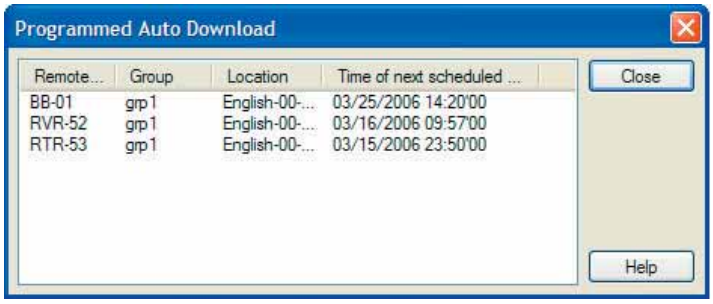
【If you wish to Stop the Auto Downloading】

Select the Remote Unit(s) for which you wish to stop downloading, under the Auto Downloading settings put a check next to [Not to be carried out], and click the [OK] button.

Programmed Auto Download: From ([View] – [Programmed Auto Download])

If a Remote Unit is set for Auto Download, this will show the time of the next scheduled download.

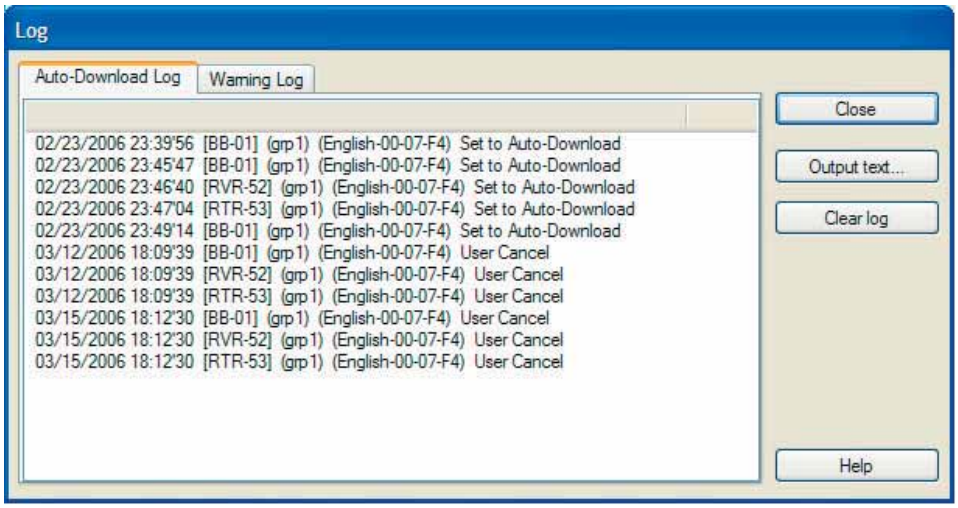
If, another type of communication, such as a warning monitoring, occurs at the scheduled downloading time and downloading is not possible, downloading will begin upon the ending of the other communication.



Viewing the Auto-Download Log: From ([View] – [View Log])

Here, it is possible to view the date and time when Auto-Download settings were made, when an Auto-Download occurred, when settings were lifted and other communication results in a log form.

The logs are in CSV format which can be read by common spreadsheet software and saved as text file.

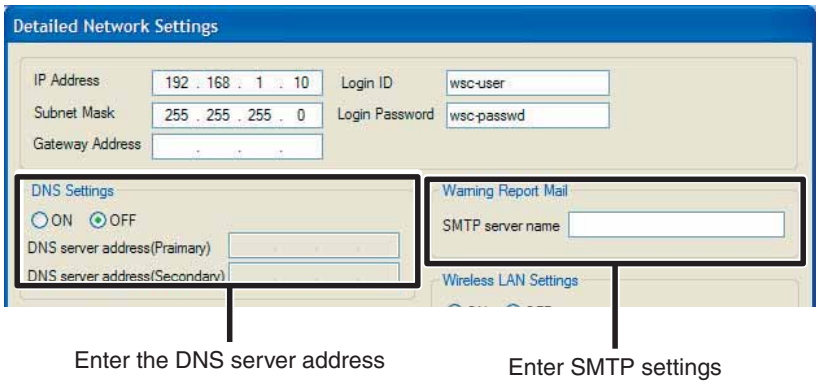


Warning Monitoring

Warning Monitoring is carried by setting the upper and lower limit for each Remote Unit.

1. Open the [Network Settings Utility] and click on [Detailed Network Settings] to display a window where settings changes can be made.

2. Make settings for the “DNS Server Address” in [DNS Settings] and for the “SMTP Server Name” in [Warning Report Mail].

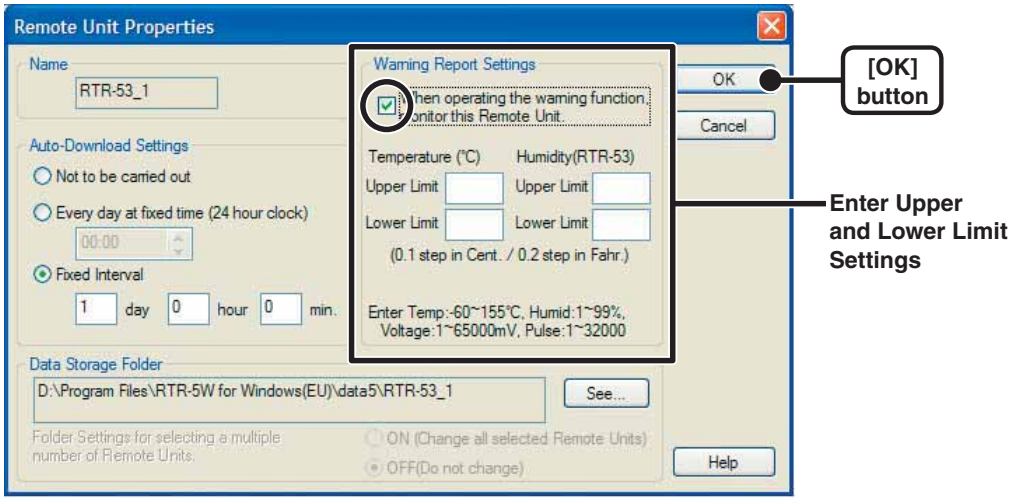


3. Open [RTR-5W for Windows]

4. Select the Remote Unit(s) you wish to make settings for, and in the [Registration / Administration] Menu click on [Remote Unit Properties].

**By right clicking on the selected Remote Unit icon(s), a popup menu will appear where you can select [Remote Unit Properties] to display the same window.*

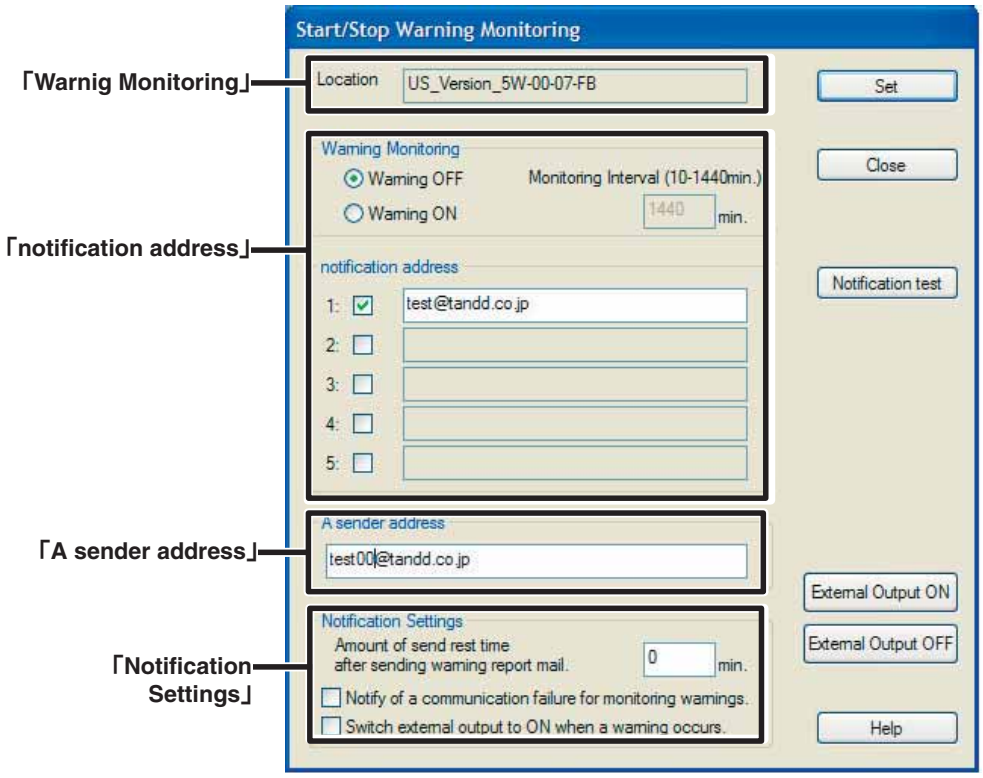
5. Check [When operating the warning function, monitor this Remote Unit] , and enter values for the upper and lower limits.



6. Click the [OK] button to finish the setting process.

7. In the [Settings] Menu, click on [Start / Stop Warning].

**By right clicking on the selected Remote Unit icon(s), a popup menu will appear where you can select [Start / Stop Warning] to display the same window.*



8. Make the desired settings.

■ Warning Monitoring

If you wish to carry out the monitoring of warnings, place a check next the [Warning ON] and make monitoring interval settings.

**Enter an amount of time between 10 minutes and 1440 minutes. If this interval is short, battery life will be depleted quickly.*

■ Notification Address

Set the recipient address(es) for the Warning Mail.

**If the check is removed, the warning mail will not be sent to that address.*

■ Sender Address

This will only used in the mail display to show where a warning report mail has been sent from.

It should be noted that if you assign an imaginary address, in some cases the SMTP server will judge the mail to be SPAM or junk mail and not allow it to be sent. Please use your own mail address.

■ Notification Settings

-Amount of send rest time after sending warning report mail

Warning report mail will continue to be sent until the warning settings have been changed or the measured value falls back within the acceptable range, but it is possible to make settings here for a rest period to occur after a warning mail has been sent, so that they will not continually be sent. By entering 0, there will be no rest period.

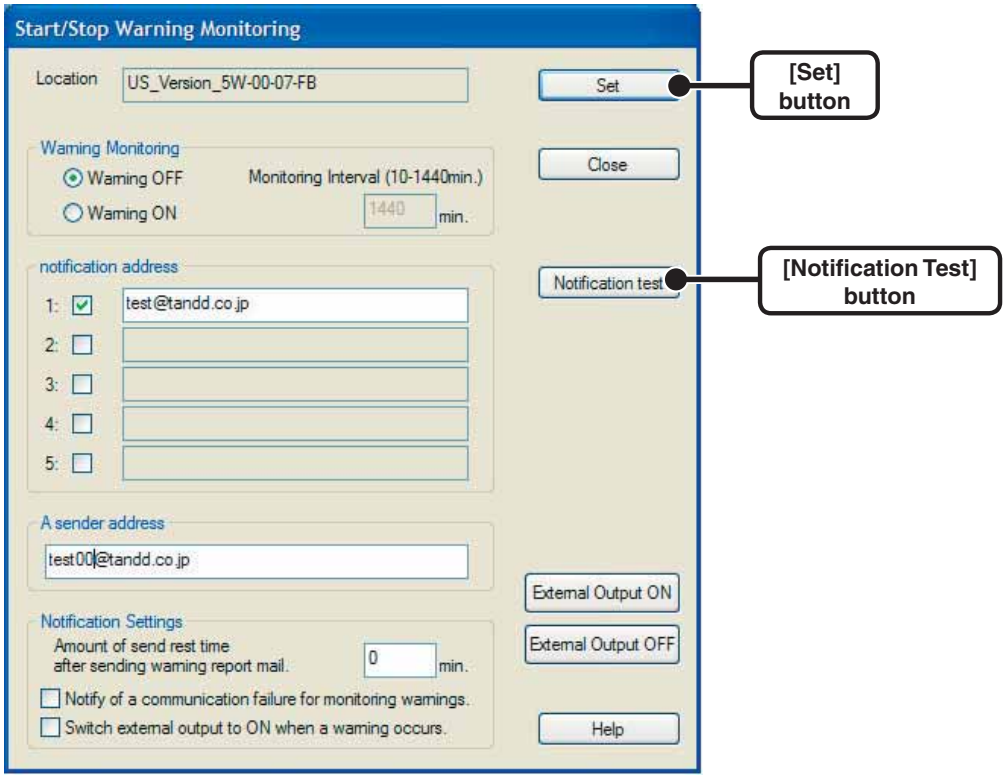
-Notify of a communication failure for monitoring warnings

Place a check here if you wish to have communication failure reports sent to the recipient address(es).

-Switch external output to ON when a warning occurs

If you wish to have an alarm or warning lamp that is connected to the external output go on when a warning occurs.

9. Click the [Set] button to send the settings info to the RTR-5W and complete the settings.



● [Notification Test] button

Use this to send a test mail from the RTR-5W to the notification address and confirm that the warning notification settings are correct.

A notification test is successful if a notification test mail reaches the notification address. If it does not reach the set address, please check the SMTP server, Notification Address, and Sender Address settings.

If you are sending mail via the Internet, it is necessary to first make sure that your network is properly connected to the Internet and you can send mail outside of your network.

Depending on your operating environment, it may take some time before the mail is received.(Especially if the address is a cell phone address.)

■ Before carrying out a notification test, it is necessary to make settings for the following:

-There must be a check next to Warning ON and proper entries must be made for "Notification Address" and "Sender Address".

-In the [Network Settings Utility], the SMTP server (mail server) must be assigned properly. (If you have questions, see the information provided by your provider).

-It should be noted that if you assign an imaginary address, in some cases the SMTP server will judge the mail to be SPAM or junk mail and not allow it to be sent. Please use your own mail address.

● Viewing the Warning Log: From ([View] – [View Log])

In the warning log will appear all warning occurrences.

Due to timing problems, there may be instances when a warning cannot be stored into the computer. For details, see the Help for [RTR-5W for Windows].

The logs are in CSV format which can be read by common spreadsheet software and saved as text file.

How to use the RTR-5W Web Viewer

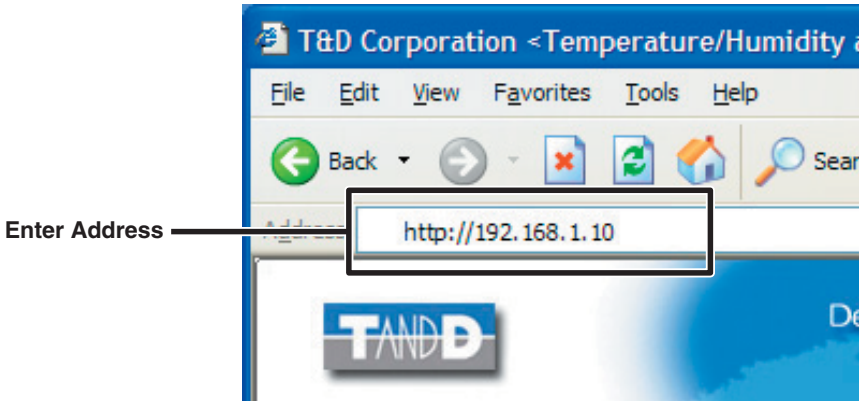
■ Opening the RTR-5W Web Viewer

1. Open Internet Explorer.

**If you wish to use the Internet, make sure that the power for the router and computer are on so as to enable connection to the Internet.*

**Make settings to enable both Java applets and Java script.*

2. In the address area, enter the address of the RTR-5W logger you wish to view.



3. By pressing the [Enter] key, the RTR-5W Web Viewer will appear.

【If the Viewer does not appear】

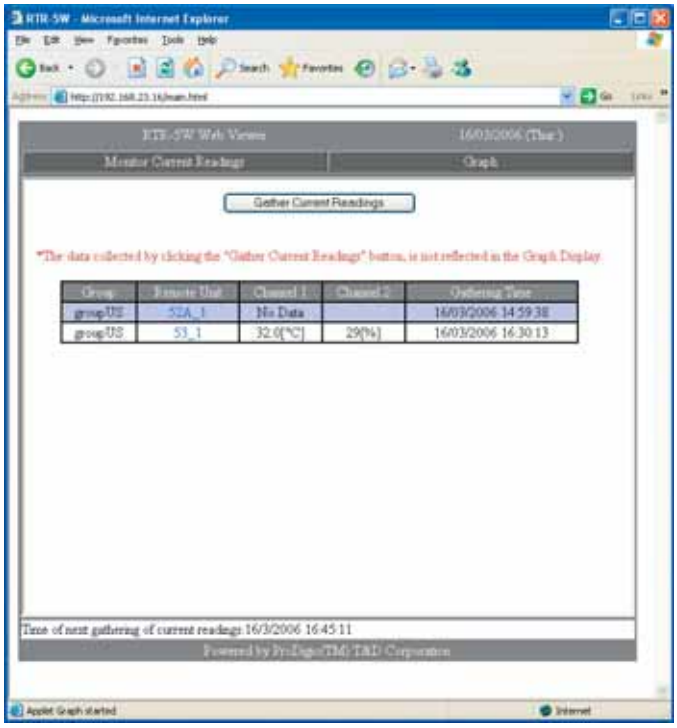
1. Make sure that the address you entered is correct.

2. Check to make sure that the IP address and subnet mask are set correctly and if necessary redo the [Detailed Network Settings].

3. Make sure that in [Location RTR-5W Properties] there is a check next to [Make access possible from a browser].

■ RTR-5W Web Viewer Functions

By opening the RTR-5W Web Viewer, the Monitor Current Readings display will automatically open. Also, it is possible to view the Data Transfer Graph for the current readings.



-Monitor Current Readings

The RTR-5W displays the newest measurement readings that are collected at the regular interval set in [Location (RTR-5W) Properties].

By clicking the [Gather Current Readings] button, communication will begin with the RTR-5W and the current readings will be displayed.

-Graph

The RTR-5W displays in simple graph form the newest measurement readings that are collected at the regular interval set in [Location (RTR-5W) Properties].

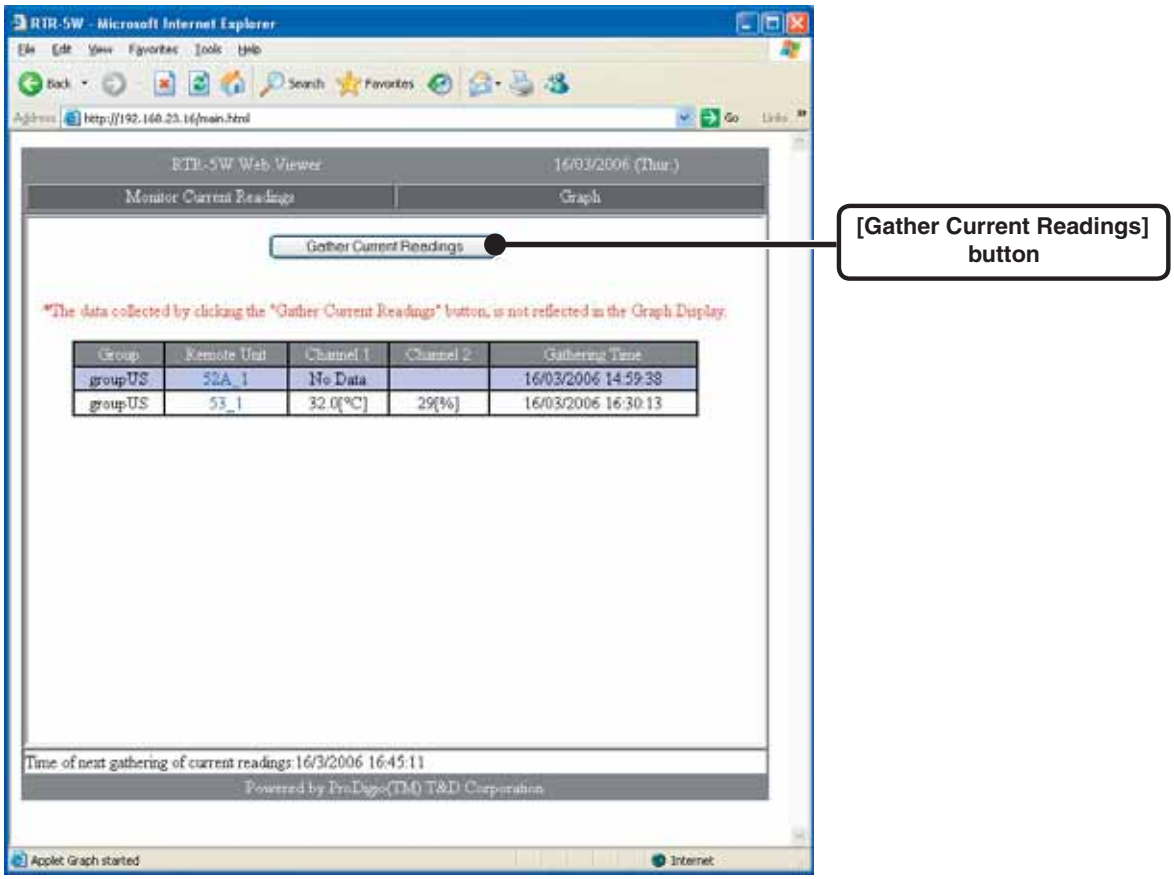
Current Readings Monitor (accessing via browser)

View the current readings for all the Remote Units registered to a Location (RTR-5W).

1. Open [RTR-5W for Windows] and make Data Gathering Interval settings.

-For details about how to make settings see part 4 [Browser Display Settings] of p.40 [Remote Registration]

2. Open the Web Viewer for the RTR-5W of which you wish to view the current readings.



-See page 99 for more details about the display.

3. The Monitor Current Readings display will automatically open.

4. Click the [Gather Current Readings] button to get the most recent info.

**If the registration info is incorrect, go to RTR-5W for Windows [Settings] Menu – [Send Group / Remote Info] and send the correct registration info.*

Graph (accessing via browser)

Via the browser, the readings measured by the Remote Unit(s) can be viewed in a simple Graph form

1. Open [RTR-5W for Windows] and make Data Gathering Interval settings.

-For details about how to make settings see part 4 [Browser Display Settings] of p.39-41 [Remote Registration]

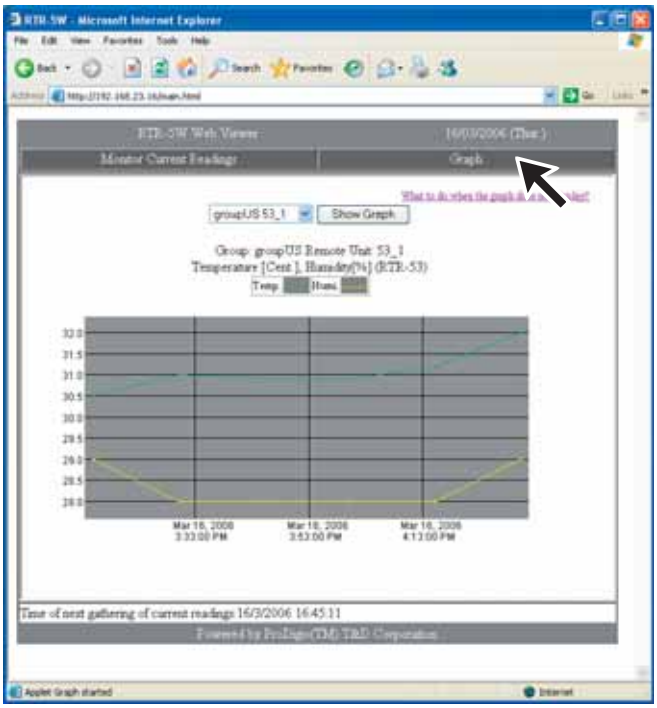
2. Open the Web Viewer for the RTR-5W of which you wish to view the Graph.

-See pp. 93,94 for more details about the display.

3. Click [Graph] and select the Remote Unit you wish to view; and the Graph will appear.

-From [Monitor Current Readings], click the name of the Remote Unit you wish to view; and the Graph will appear.

- By clicking the [Show Graph] button, the Graph will be refreshed.



If any of the following operations are performed, all data in the graph will be erased.

-If the communication function is restarted from the [Network Settings Utility].

- If the AC adapter plug is removed.

-If the clock settings are made from [RTR-5W for Windows].

-If the RTR-5W is rebooted from [RTR-5W for Windows].

**To view graphs in your browser, it is necessary to have Java Runtime Environment (JRE) installed on your computer.*

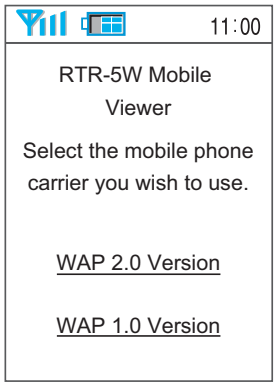
If JRE is not already installed, please download and install it from the Sun Microsystems Homepage. See pp. 101-103 for details.

Viewing Current Readings via Mobile Phone

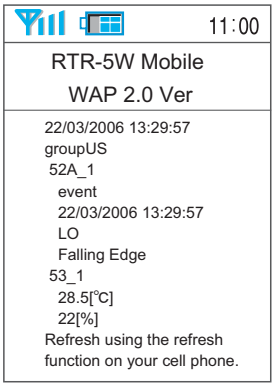
View the current readings via a mobile phone browser for all the Remote Units registered to a Location (RTR-5W).

1. Open the URL entry display and enter the URL for the RTR-5W logger you wish to view and press enter.

2. Select the format that displays best on your phone.



3. The Current Readings display will appear.



Note:

-To view the current readings monitor via mobile phone, it is necessary to open the RTR-5W to the public on the Internet.

-The current readings will not be automatically refreshed. You will have to use the browser refresh function on you cell phone.

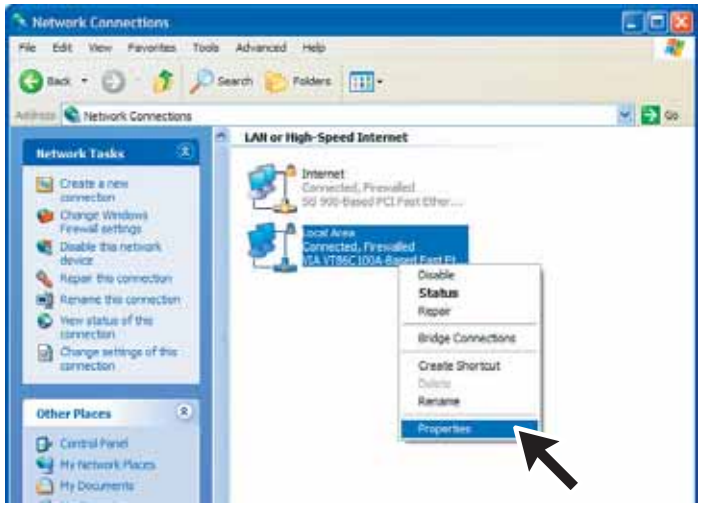
-For Vodaphone mobile phones, it is forbidden to use any port number other than 80.

Checking and Making Changes to Computer Network Settings

If some network environments, it may be necessary to make changes to the IP address and subnet mask at the computer side in order to carry out a search.

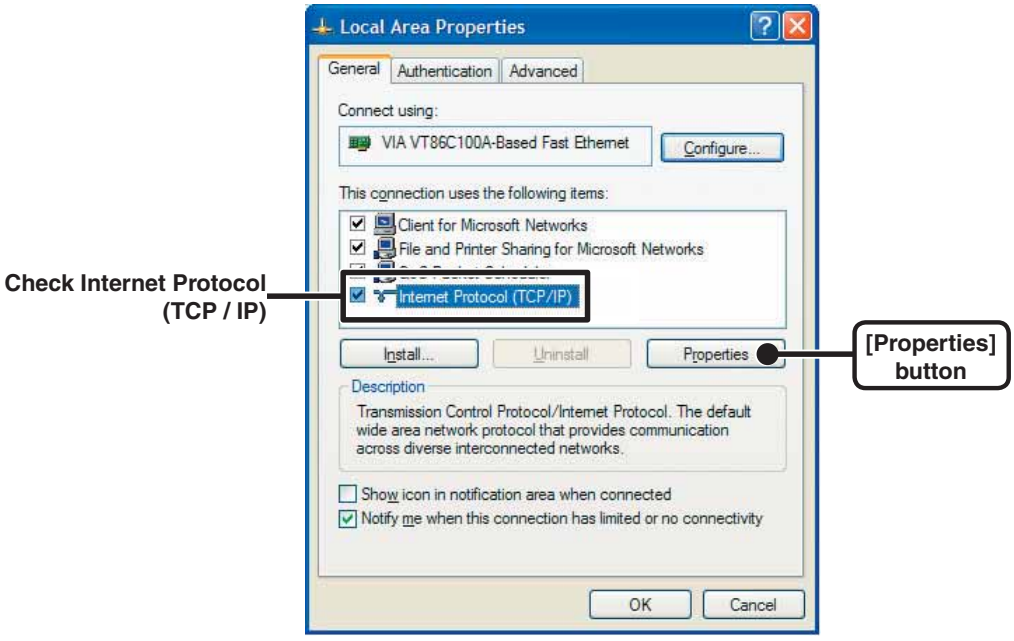
See the following procedures for checking and making changes to your computer network settings.

1. In the [Control Panel], open [Network Connections].

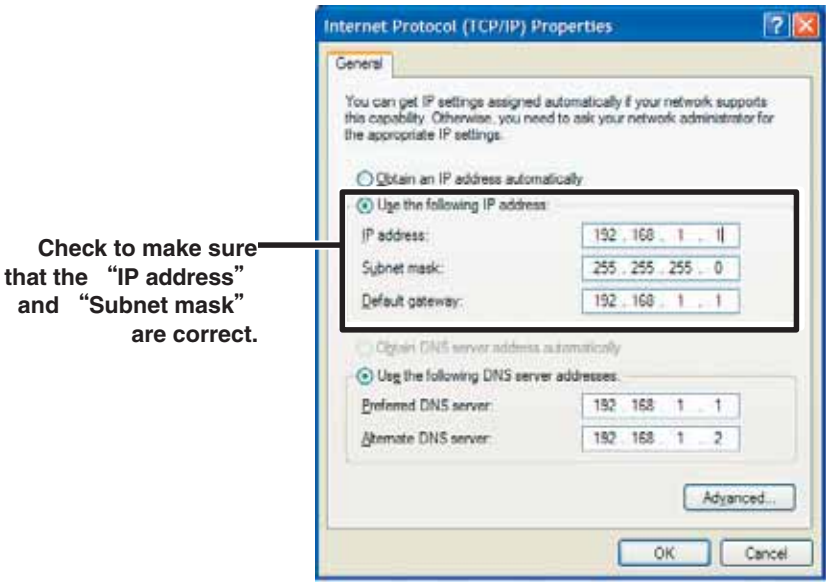


2. Select the Network adapter that you are using, and right click with the mouse and open the Properties.

3. Under the [General] Tab, in [This connection uses the following items:] select [Internet Protocol (TCP / IP)] and Click on [Properties] button.

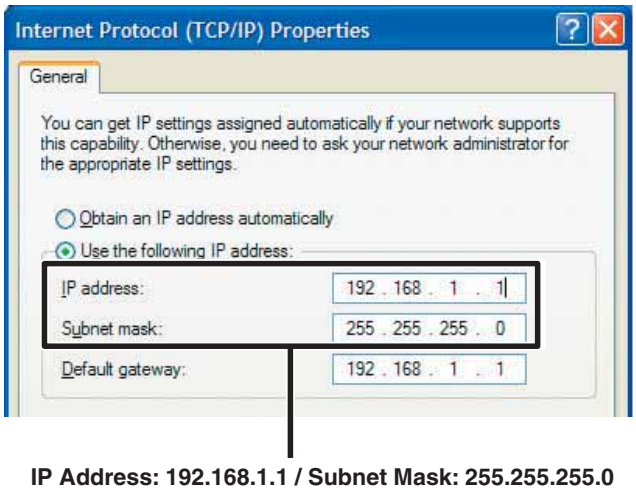


4. In the [Internet Protocol (TCP / IP) Properties] window, under [Use the following IP address:] make sure that the IP address and Subnet Mask are correct .



5. In order to return the settings back to the original ones make sure to write down the current settings for "IP Address", "Subnet Mask", "Default Gateway", "Preferred DNS Server" and "Alternate DNS Server".

6. Enter "192.168.1.1 " as the IP Address and "255.255.255.0" as the Subnet Mask.



IP Address: 192.168.1.1 / Subnet Mask: 255.255.255.0

7. After entering, click the [OK] button.

8. Click the [OK] button as seen in the 8.3 Properties window to close the window.

9. Once again, in the [Network Settings Utility] run a search and check whether the IP address for the RTR-5W connected to the network is displayed.

10. If it is displayed properly, make the initial network settings.

11. After making the initial network settings, follow steps 1-4 above to open the [Internet Protocol (TCP / IP) Properties] window. Re-enter the “IP address”, “Subnet mask”, “Default Gateway”, “Preferred DNS server”, and “Alternate DNS server” that you had written down before and click the [OK] button.

12. Open the browser, enter the address (URL) that you set in the settings utility and check to make sure that the display is proper or not.

**If you are using a company network or are working in an environment that may have special settings and after having followed the above procedures still cannot view the display properly, please connect your network administrator.*

Downloading JRE

To view graphs in your browser, it is necessary to have Java Runtime Environment (JRE) installed on your computer.

If you do not already have it installed on your computer, please download as follows.

NOTE:

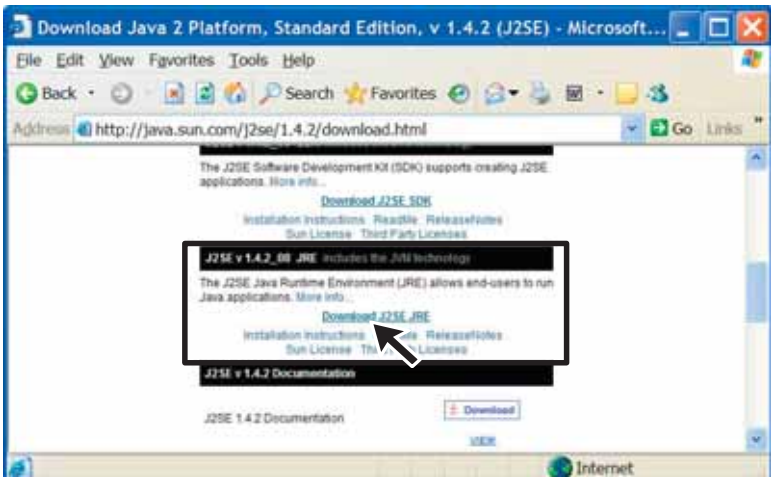
- The installation of JRE is completely the responsibility of the user.

- The following information is true as of February, 2006. Changes may occur to the version of JRE and hence exe. file names may also change. Please be sure to download and install the latest version.

1. Please enter http://java.sun.com/ in your browser's address bar; this will take you to Sun Microsystems Homepage.

2. Under 'Popular Downloads' click on [J2SE 1.42 SDK].

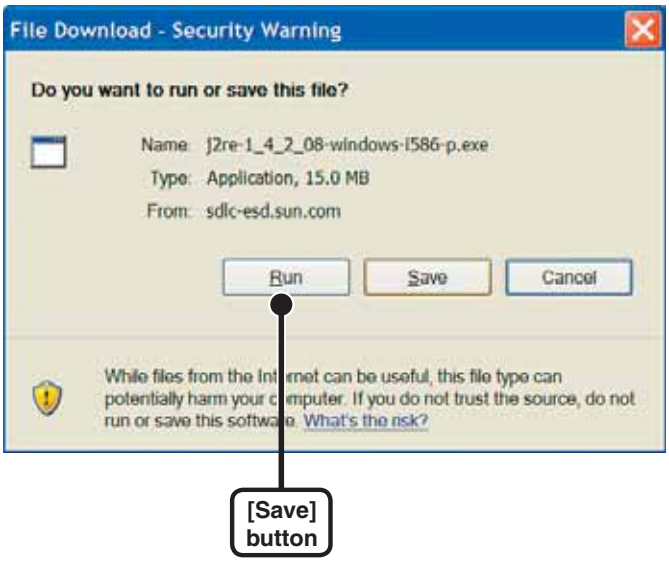
3. Scroll down to find [J2SE v 1.4.2_10 JRE] and under that click on [Download J2SE JRE]. This will open the download window.



4. The JRE User's Agreement will appear. Scroll down while reading the agreement and click "Accept" and [continue].

5. Under [Windows Platform - Java(TM) 2 Runtime Environment, Standard Edition 1.4.2_08] click [Windows Offline Installation, Multilanguage [j2re-1_4_2_08-windows-i586-p.exe].

6. Click the [Save] button.



7. Specify the Location of the Folder for the download, and click the [Save] button to start the download.

Once the download is finished, double click on the downloaded Install Program [j2re-1_4_2_08-windows-i586-p.exe] and the installation will begin.

Re-installing

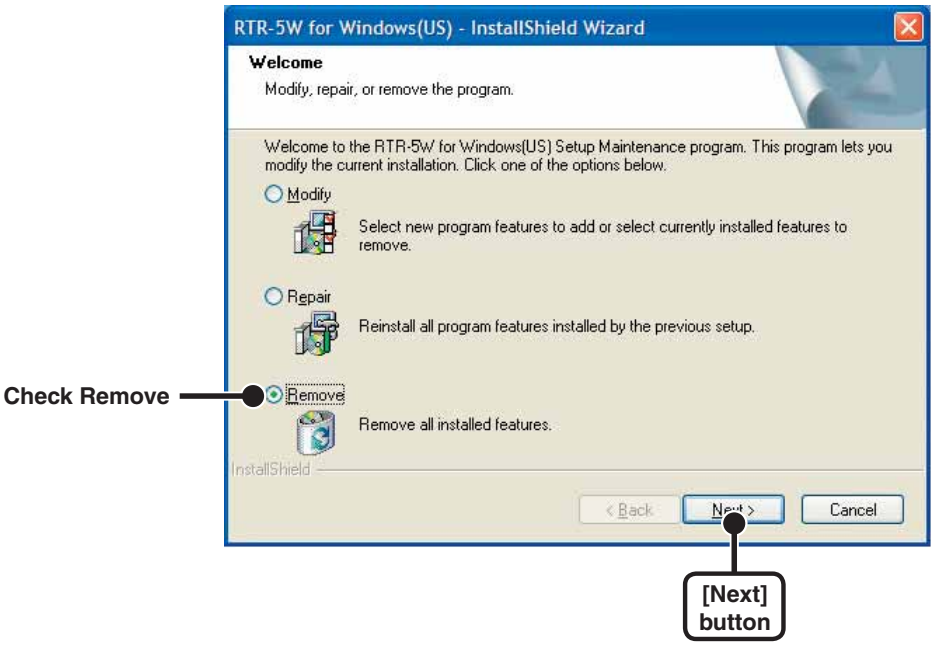
Before reinstalling or updating the [RTR-5W for Windows] software, make sure to carry out the uninstall program first. Also, before uninstalling, make sure to quit all「RTR-5W for Windows」applications.

* To install [RTR-5W for Windows], it is necessary to have Administrator rights (Computer Administrator) for the computer in which you wish to install it.

1. In the Windows Control Panel, click on [Add/Remove Programs].

2. From the list of currently installed programs, select [RTR-5W for Windows] and click the [Add / Remove] button.

3. The [Install Shield Wizard] will appear. Check [Remove], and click [Next].



4. Follow the directions to Uninstall.

5. After the uninstall process is completed, reinstall by following the directions to [Install].

- Even after uninstalling, saved data files will still remain in the folders and locations they were saved in.

Troubleshooting

■ Network Settings Utility

Q.1 The following message appears "Windows Security Alert" what should I do?

A If you are using Windows XP SP2, the following message may be displayed.

There is no problem, so please click [Unblock].

Q.2 Is it possible to use the [Network Settings Utility] via a proxy server?

A Communication is impossible via a proxy server. With Web Viewer communication is possible.

Q.3 I cannot run a search in the Network Initialization. Why?

A One of the following may be the reason:
Power is not being supplied by the AC adaptor to the RTR-5W
The RTR-5W and the computer you are using are not on the same network.
The [Network Settings Utility] is already being used by another computer.
The LAN card which is being used has not been formatted.

Q.4 I cannot make settings in the Network Initialization, Why ?

A One of the following may be the reason.
- The Login ID and / or Password are incorrect.
- Another RTR-5W with the same IP address is on the same network.

Q.5 Why does a "Communication Error (Connection Error) " appear ?

A The network is probably not properly connected.
- One of the following is incorrect: IP address or Domain, Login ID, Password, or Port Number.
- The network is not properly connected (the LAN cable is broken, the Hub is damaged, a mistake occurred in setting up the router, etc…)
- In the "Menu" – " Communication Time Settings" try slowing the communication time.

Q.6 Because of some other [Communication Error] communication cannot occur. Why?

A One of the following may be the reason:
- The IP Block setting is ON and communication can occur with only specific PC's.
- If after several attempts a communication error continues to occur, turn OFF the RTR-5W and restart.
- A warning report mail or test mail may be in process. If a sending error occurs, processing takes time, so please wait for at least one minute before trying again.

Q.7 Which has priority, a wireless LAN or a wired LAN ?

A If a wireless LAN card is inserted, the wireless LAN will have priority. Because of this, if the wireless LAN settings are incorrect and a wired LAN is connected, communication will not take place via the wired LAN and hence communication will not occur.

Q.8 I forgot the password, what should I do ?

A First, return the settings to the factory default settings and then redo the settings.

Q.9 Is it possible to hide the IP address history and settings history ?

A If you wish to disable the History, in the "Menu", select [Login History] and click to "OFF". Please note that a history will remain viewable from when before it was disabled. To erase a history, please click on "Clear Login History" in the Menu.

Q&A about RTR-5W

■ Q&A about RTR-5W

Q.1 RTR-5W units use an AC adaptor, what happens when there is power shortage?

A

・During a power shortage the Web Server will not function and communication via LAN cannot occur.
・If SNTP settings have not been made, the clock will reset.
・The data files for transfer will be erased.
・All warning occurrence logs stored in the RTR-5W will be erased.

Q.2 Can I connect directly to my computer with the LAN cable that comes with the logger ?

A

To connect a RTR-5W logger directly to your computer, you must use a cross LAN cable. The LAN cable supplied is a straight LAN cable and cannot be used to connect directly to your computer.
Please purchase a cross LAN cable at your local computer supply store.

Q.3 Does the RTR-5W have a clock and calendar?

A

The RTR-5W has an internal clock (calendar) built into it.

If the internal clock settings for the RTR-5W are not set correctly, the date and time in the RTR-5W Web Viewer's current readings monitor and the time of warnings will also be incorrect. Make sure to set correctly before using.

NOTE:

If you make clock settings manually, the clock will lose its settings upon removal of the AC adapter or after restarting the system.

Q.4 It is possible to connect the RTR-5W to the network by using the LAN cable that connects the computer to the LAN network?

A

Inserting the wireless LAN card that connects the computer to the network into the RTR-5W will physically connect the RTR-5W to the network, but without making the necessary settings such as IP address, the RTR-5W cannot be active in the network and hence is not really connected.
After having inserted the LAN cable, make sure to go to [Network Settings Utility] to make the necessary IP address and subnet mask settings.

Q.5 It is possible to connect to a wireless LAN by removing the wireless LAN card from my computer and using it?

A It is necessary to make Wireless LAN settings.
In [Network Settings Utility], under [Detailed Network Settings] make changes to the [Wireless LAN Settings]After that, turn OFF the RTR-5W power, then insert the card and turn the power back ON.

Q.6 I want to use a wireless LAN, which products should I use ?

A Please use only those CF type Wireless LAN cards that have been proven to be compatible and are suggested for use.

Q.7 Which has priority, a wireless LAN or a wired LAN ?

A If the Wireless LAN is connected properly and all settings are correct, the Wireless LAN will have priority.

Q.8 I want to have a mail sent when a warning occurs, how can I do this ?

A To use the warning mail function, it is necessary to have an SMTP server.
If you have an Internet connection, use the mail server of your Internet service provider or some other means to access a mail sever. If you have a mail server on your company LAN, there may be specific instructions and settings for sending mail. Please ask the network administrator at your company for details.

■ Q&A about Web Server Functions

Q.1 Are the RTR-5W Base Stations web servers?

A The RTR-5W stations have web server functionality built into them. This function allows for the provision or serving up of temperature and humidity data, current readings and graphs.

Q.2 What is a Web Server ? What is a client ?

A In a computer network, the computer that acts as a provider of services to various users is called a server and the computers which request these services from the server are referred to as clients.
Most communication service is made up of exchanges between servers and clients.
In the case of RTR-5W, the RTR-5W provides functions and information so it is a server and the computer, which reads this information or functions, is the client.
For example, the storage of homepages and the making public of these are done by the [Web Server] and the sending and receiving of e–mail is preformed by the [Mail Server].

■ Q&A about Viewing the Web Site

Q.1 Can I use a RTR-5W logger without connecting it to a network ?

A If the RTR-5W is not connected to a network, the downloading of recorded data, the display of current readings, recording settings and all other types of settings cannot be carried out.

■ Q&A about Networks

Q.1 What is a network ?

A A network is a system in which a group of computers are connected by cable (copper wire, optical fiber, etc), infrared ray, radio waves or other means in order to share and exchange information.

There are basically two types of computer networks.
A Local Area Network or LAN consists of a group or network of computers in a limited range.

A Wide Area Network or WAN is a network of computers that are connected over long distance. The Internet is an example of a WAN that has connected a multiple number of networks.

Q.2 What is an IP address ?

A In a network, in order to distinguish your computer from another it is necessary to assign a number; this number is called an IP address.

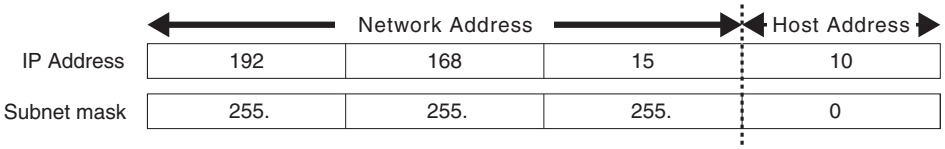
When you connect to an outside network such as the Internet the IP address that is used is referred to as a "Global IP address. In a Local Area Network the IP address that is used is called a “Private IP address".

An IP address is divided into 4 blocks of numbers separated by periods, such as "192.168.15.10". The assigned numbers can use the digits 0-255 with private IP addresses usually beginning with numbers such as "192.168.".
※ However, the number "255." is not usually used.

This number is absolutely necessary to enable participation in a network, so it is necessary to set the IP address to a number that suits your network environment.

Q.3 What is a Subnet mask ?

A An IP address is made up of the network address to which the computer belongs (network address) and the computer's own address within the network (host address). The Subnet mask determines the division between these.



The Subnet mask, similar to the IP address, is made up of four blocks of numbers divided by periods, such as "255.255.255.0".

This number is absolutely necessary to enable participation in a network, so it is necessary to set the Subnet mask to a number that suits your network environment.

Q.4 How should I make settings for the IP address / Subnet mask ?

A The IP address and Subnet mask settings vary depending upon your networking environment (structure). Please consult your network administrator for details. Below is a simplified explanation of a company LAN set up for your reference.

If the computer connected to your company LAN has a Subnet mask of "255.255.255.0" and an IP address of "192.168.100.1", set the Subnet mask to the same as your computer, "255.255.255.0".

Set the IP address to 192.168.100.***. Make sure to set the last three digits,***, to a number between 1-254 that is not the same as any other computer connected in your network.

IP Address				
	192	168	100	1
				⋮
	192	168	100	254

Q.5 What is a MAC address ?

A A MAC address is a unique number made up of alphabet and numbers that is assigned separately to the components of network communication (computer, server, router, etc…). Each MAC address is assigned to the hardware and is unique to that device, so there is no chance for duplication.

If you compared it to a cell phone, even though the phone number may be changed, you could think of the MAC address as the serial number of the phone, which cannot be changed and is unique to each unit.

The MAC address is written on a sticker on the back of each TR-7W logger.

Q.6 What is a port number ?

A When using TCP/IP communication with a LAN cable or via a phone line, port numbers are assigned to distinguish one application from another.

Port numbers can be assigned from 0 to 65535. The numbers 0 to 1023 are already reserved to communication services and are referred to as "Well Known Port Numbers".

[Well known port numbers] are: HTTP communication at 80 / FTP communication at 20 and 21 / SMTP communication (sending mail) at 25 / POP3 communication (receiving mail) at 110.

In order for communication to work properly these port numbers must be set correctly.

Q.7 What is a gateway ?

A A gateway is a term used to refer to a device or software that is used to link networks with different standards.

For example, a gateway is needed when connecting a cell phone to the Internet or in any case where you wish to connect two devices that are completely different. Gateway carries with it the meaning of entrance and exit and a router may also be referred to with this term.

When making gateway settings, it is necessary to make IP address settings for the device that will act as a gateway.

Q.8 What is a URL ?

A A URL is an address that is written in a way so that it is easy for the DNS function to determine on which server the IP address is located.

This address begins with "http:// " and is followed by such things as domain names, server names, port numbers, file names and other such info.

For example, if the IP address that is assigned to "www.tandd.com" is "61.197.203.107", by entering "http://61.197.203.107/product/wdr_3/tr_7w_01feature.html" in the browser, the same page will appear as when you enter "http://www.tandd.com/product/tr_7w/tr_7w_01feature.html".

※ The DNS or Domain Name Server helps to switch difficult to understand IP address of just numbers, such as "61.197.203.107" into easy to grasp names such as "www.tandd.com" and helps connect to the desired server.

■ Q&A about the Internet

Q.1 What is a fixed IP address?

A Usually, when you connect to the Internet, the provider with which you have contracted service automatically assigns an IP address which may be different each time you connect, or may change after a certain length of time.

With this type of changing IP address, it is more difficult for outsiders to illegally enter your computer. On the other hand, when using your computer or a RTR-5W unit as a sever, it would be necessary to enter a different IP address as the URL each time you wish to access it. In such a case, it would be necessary to find out the current IP address each time you wished to access and this would be totally inconvenient.

To help solve this problem, there is something called a fixed IP address service that your provider can offer.

With a fixed IP address, you will be assigned a special unique IP address.

Some providers may give you a fixed IP address from the beginning of service, but with most providers it is necessary to sign up for this special service.

Q.2 How do you get a fixed IP address?

A A fixed IP address is a service offered by your Internet provider.
For details about how to receive a fixed IP address contact the Internet provider with which you are connected.

Q.3 How should I set up a fixed IP address?

A If you are using only one RTR-5W connected to one router, then the fixed IP address should not be set for the RTR-5W, but for the router. If you are using a multiple number of RTR-5W connected to one router, the RTR-5W will use FTP and HTTP so, please set a fixed IP address for each RTR-5W unit.

Because it is impossible, when using normal ADSL or FTTH lines, to directly connect the RTR-5W to the Internet line, it is necessary to place a router between the logger and the ADSL (FTTH) modem.

When using a router, the fixed Internet IP address should be assigned to the router and all access to the RTR-5W from outside should go through the router. In this case, the router will have two IP addresses: an external IP address for the Internet and an internal IP address for the company or household LAN.

Q.4 I want to use a URL without a fixed IP address, how can I do that?

A If you wish to access an RTR-5W by URL but without a fixed IP address, it is possible to use a dynamic IP address.

The DNS or Domain Name Server helps to switch difficult to understand IP address of just numbers, such as "61.197.203.107 " into easy to grasp names such as “www.tandd.co.jp” and helps connect to the desired server.

The DNS usually changes names to fixed IP addresses.

But, if for some reason you cannot use a fixed IP address or for security reasons you wish not to use a fixed IP address, there is a type of DNS called a dynamic DNS, which can handle ever-changing IP addresses.

For example, the starting IP address is "210.0.0.1 " and the URL associated with it is “http://www.rtr5w.com”.

The IP address "210.0.0.1 " is of the changing type that is periodically reassigned by the provider. After a certain period of time the assigned IP address is changed to "210.0.0.2 ".

Normally, at this point the DNS would not associate the URL with the IP address and access would be made impossible, but because the dynamic DNS tracks the IP address you can still access the desired server using the same URL.

There are many types of dynamic DNS plans and services available, please contact your local provider for more details.

Q.5 Can I use the Warning Mail function without getting or using a fixed IP address?

A If it is possible for you to connect to the Internet by using a dynamic DNS, theoretically it is possible to send mail without having or using a fixed IP address. That is presuming it is possible to successfully send data via your provider’s mail sever or your company’s mail server.

Fundamentally, if you are able to access your company mail server or connect to the Internet it should be possible to send mail.

Q.6 Is it possible to connect to the Internet without a fixed IP address or an URL ?

A Yes it is possible to connect without using a URL or having a fixed IP address, but because the IP address that will be assigned by the provider will be constantly changing, the access will be varied and will not go smoothly.

For example, the IP address that you used successfully one hour before may no longer work and access will be made impossible. Further, you will have no way of verifying the new IP address.

We strongly suggest using either a fixed IP address or a dynamic DNS.

Q.7 Is it possible to connect to the Internet without a fixed IP address nor an URL?

A Yes it is possible to connect without using a URL or having a fixed IP address, but because the IP address that will be assigned by the provider will be constantly changing, the access will be varied and will not go smoothly.

For example, the IP address that you used successfully one hour before may no longer work and access will be made impossible. Further, you will have no way of verifying the new IP address.

We strongly suggest using either a fixed IP address or a dynamic DNS.

Specifications

■ Web Wing WL RTR-5W

Compatible devices	RTR-51, RTR-52, RTR-53, RVR-52A
Operational Status Display	LED Lamp Display (Power ON / Wireless Communication in Progress / Warning Occurrence)
Power	Specific AC Adapter
Communication Method	Wired LAN: 100 BASE-TX / 10BASE-T (RJ45 Connector)Wireless LAN: IEEE802.11b (CF Wireless LAN Card) *1
Communication Speed	Special short wave radio wireless: 2000 readings per minute / Optical Communication: 2400bps
Communication Time	When downloading data from Data Logger with RTR-5W via wireless communication (1 unit of full data takes about 420 seconds)
External Output(Warning Output)	When operating the warning functionVoltage when OFF: AC/DC less than 50V / Current when ON: less than 0.1A / ON Resistance: MAX 35 Ω
Dimensions / Weight of Main Unit	H83 × W102 × D28 mm（excluding protrusions） / abuot 137g
Operating Environment	Temperature: 0 ～ 50℃ / Humidity: 20 ～ 80％ RH (without condensation)
Accessories included in package	AC Adaptor AD-0605 x 1 / LAN Cable LN-20W x 1 Software Set / Introductory Guide and Warranty x 1

* 1 For information and updates concerning which wireless LAN cards can be used please see our Homepage.

■ PC Operating Environment

OS	Micrsoft Windows® 2000/XP *1
PC/CPU	A Stable Windows Operating Environment
Memory	Enough memory to stably operate Windows
Hard Disk	More than 10 MB of free space（Data will need more space）
Monitor	SVGA（higher than 800 × 600 recommended）・more than 256 colors
LAN	100BASE-TX or 10BASE-T Twisted pair cable confirming to Category 5（STP/UTP）
Browser	Internet Explorer 6.0 or higher

*1 For installation, it is necessary to have Administrator (Computer Administrator) rights.

■ RTR-5W for Windows®

【RTR-5W for Windows】

Compatible devices	RTR-5W
Functions	Remote Unit Registration, Recording Start / Stop, Download Data, Auto-Download Settings, Warning Report Settings, Gather Current Data, Data Transfer, View Remote Unit Battery Level

【Network Settings Utility】

Compatible devices	RTR-5W
Functions	Network Initialization Settings, Detailed Network Settings.

【Temp / Humidity Graph 】

Compatible devices	RTR-5 Series, TR-71W / TR-72W、TR-7 Series、TR-5 Series、RTR-7 Series Data Loggers
Number of Channels	8 Channels Simultaneous Display / Processing
[Screen Display]	
Graph	Temperature / Humidity Graphs for every Channel（Zoom in/out and scroll with mouse or keyboard, Change Display Colors for Channels, View/ Hide Channels
Data	Channel Name, Recording Interval, Number of Data, Highest, Lowest and Average, Unit of Measurement, A and B Cursor Dates/Times and Temp / Humidity Readings, Calculated Temp / Humidity Difference between Cursor A and B
Other Functions	Data List Display, Calculation Range (Time Period) Settings, Data Maintenance, Delete Data by Channel, Re-order Data by Channel, Vertical Scale Settings
File Output	Special T&D Data File・Text File（CSV, etc）
Printing	Graphs / Tables

【Multi-scale Graph】

Compatible devices	RTR-5 Series, RVR-52A, TR-71W / TR-72W, TR-7 Series, TR-5 Series, RTR-7 Series Data Loggers
Number of Channels	8 Channels Simultaneous Display / Processing
[Screen Display]	
Graph	Data Graphs for every Channel（Zoom in/out and scroll with mouse or keyboard, Change Display Colors for Channels, View/ Hide Channels
Data	Channel Name, Recording Interval, Number of Data, Highest, Lowest and Average, Unit of Measurement, A and B Cursor Dates/Times and Measurements, Calculated Differences in Measurements between Cursor A and B
Other Functions	Data List Display, Calculation Range (Time Period) Settings, Data Maintenance, Delete Data by Channel, Re-order Data by Channel, Vertical Scale Settings
File Output	Special T&D Data File・Text File（CSV, etc）
Printing	Print Data List

【Event Viewer】

Compatible devices	RVR-52A (for Recorded Event Time Data)
Number of Channels	64 Channels Simultaneous Display / Processing
[Screen Display]	
Data List	View Event Time Data List for Each Channel (Zoom in/out and scroll with mouse or keyboard), View Rising (Lo to Hi) Waves and Falling (Hi to Lo) Waves
Other Functions	Change the LCD Display , Shift between Descending/Ascending
File Output	Special T&D Data File・Text File（CSV, etc）
Printing	Print Data List

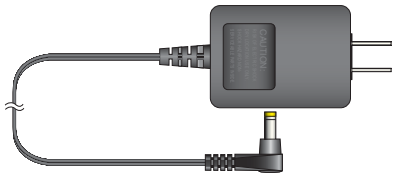
■ About the RTR-5W Series Web Viewer

Compatible devices	RTR-5W
Functions	Monitor Current Readings, View Graphs

Options

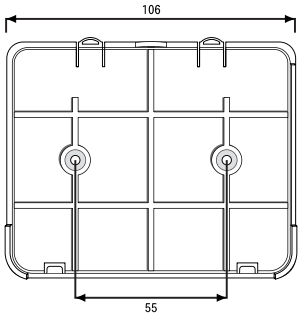
■ AC adapter（for RTR-5W）

AD-0605　AC adapter



■ Wall Attachment Unit（for RTR-5W）

TR-5WK1　Wall Attachment

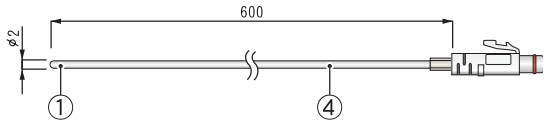


■ Temperature Sensors（For TR-52/RTR-52）

unit: millimeters

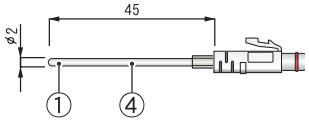
TR-5106 Teflon-Shielded Sensor

Cable Length　0.6m
Thermal-　Approx. 15 Sec. (in air)
Constant Time　Approx. 2 Sec. (in agitated water)



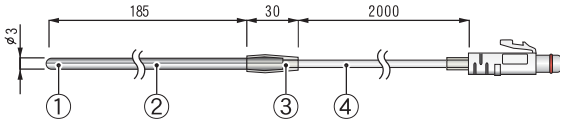
TR-5101 Teflon-Shielded Sensor

Cable Length　45mm
Thermal-　Approx. 15 Sec. (in air)
Constant Time　Approx. 2 Sec. (in agitated water)



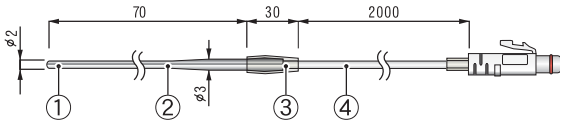
TR-5220 Stainless Protection Sensor

Cable Length 2.0m
Thermal- Approx. 36 Sec. (in air)
Constant Time Approx. 7 Sec. (in agitated water)



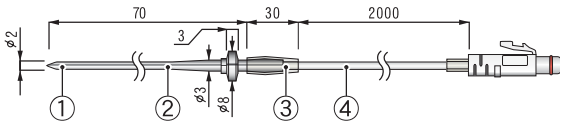
TR-5320 Stainless Protection Sensor

Cable Length 2.0m
Thermal- Approx. 12 Sec. (in air)
Constant Time Approx. 2 Sec. (in agitated water)



TR-5420 Stainless Protection Sensor

Cable Length 2.0m
Thermal- Approx. 12 Sec. (in air)
Constant Time Approx. 2 Sec. (in agitated water)



① Thermistor ② Stainless pipe (SUS316) ③ Teflon Compaction Tube ④ Teflon Resin (FEP)-Shielded

Possible Measurement Range：-60 to 155℃

Sensor Temperature Durability：-70 to 180℃

Measurement Accuracy：Average ± 0.3℃ (-20 to 80℃) Average ± 0.5℃ (-40 to -20℃ / 80 to 110℃)

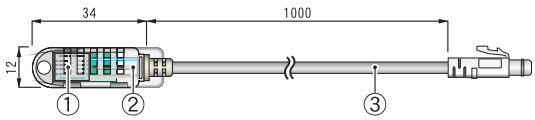
Water Resistance：Average ± 1.0℃ (-60 to -40℃ /110 to 155℃)
Splash Proof (Sensor and Cable)

■ Temp / Humidity Sensor（For RTR-53）

unit: millimeters

TR-3310　Temp / Humidity Sensor

Cable Length　1 m



① Temperature/Humidity sensor　② Polypropylene resin　③ Vinyl Coated Electrical Wire

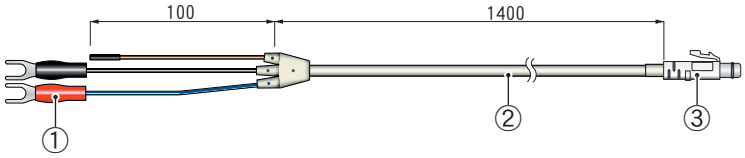
Possible temperature measurement range：10 to 95％ RH
Possible Measurement Range：0 to 50℃
Sensor Temperature Durability：-10 to 55℃
humidity measurement accuracy：± 5％ RH (at 25℃ 50％ RH)
Service life：1 year (under normal operational conditions)
Operational conditions：Without dew condensation, water leakage or effect from corrosive gas or organic solvents.

■ Input Cables（For RVR-52A）

unit: millimeters

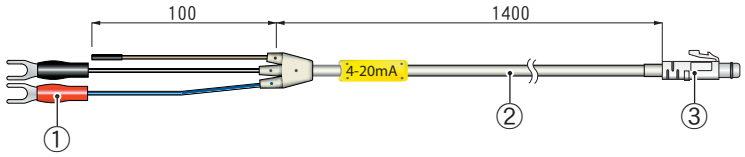
RPR-7101 Pulse Input Cable

Cable Length　1.5m



RVR-5203 4-20mA Probe Cable

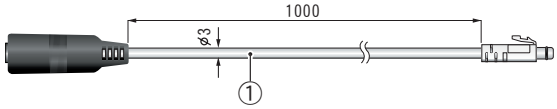
Cable Length　1.5m



① M3.5 Tongue Terminal　② M3.5 Tongue Terminal　③ Connector

VR-2C10 Sensor Extension Cable (to Moisture Sensors)

Cable Length: 1.0m



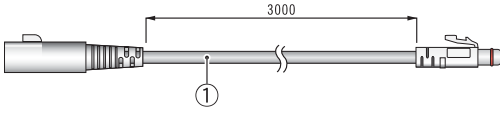
① Vinyl Coated Electrical Wire

■ Sensor Extension Cables（For RTR-52）

unit: millimeters

TR-2C30 Sensor Extension Cable

Cable Length	3 m
Waterproof Capacity	Splash Resistant



① Sensor Extension Cables

NOTE:

Only one cable per sensor.

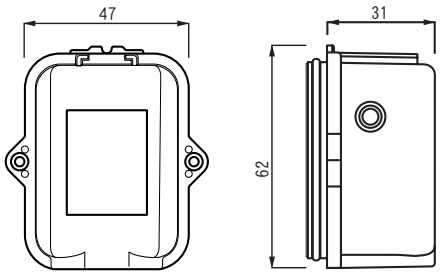
When using the extension cable there will be a +0.3℃ at normal temperature and at -50℃ a gap of +0.5℃ may occur.

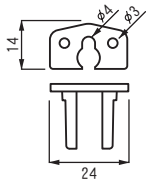
■ Power（For RTR-5/RVR-5）

unit: millimeters

RTR-05A1 External Power Adaptor

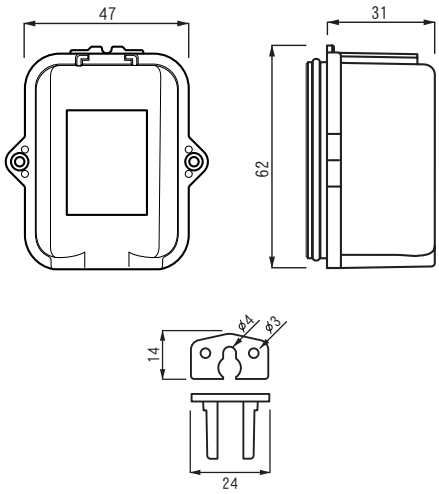
Voltage Input	DC6V ～ DC13V
Back-up Power	Ni-MH Battery (In case of power loss)
Back-up Time	4 days (*1)
Changing Method	Trickle Charge
Operating Temperature	0 to 60℃
Waterproof Capacity	none
Weight	about 37g (without AC Adaptor)
Contents	Attachment hook x 1
	Rubber Packing x 1 (for back of main unit)
	Rubber Packing (small) x 1(for AC Adaptor jack)
	Silica Gel Pack (drying agent) x 1
	Double-sided Adhesive Tape x 1
	(for fastening silica gel)
	Screws x 2
	(extras for fastening back of main unit)





RTR-05B1 Large Capacity Battery Pack

Power	Lithium Battery x 1 (LS26500)
Battery Life	about 2 years and 6 months (*1) (Monitoring at 1 minute interval = about 20 months)
Waterproof Capacity	Splash proof
Operating Temperature	-40 to 80℃※2
Weight	about 75g (including lithium battery)
Contents	Attachment hook x 1 Rubber Packing x 1 (for back of main unit) Silica Gel Pack (drying agent) x 1 Double-sided Adhesive Tape x 1 (for fastening silica gel) Screws x 2 (extras for fastening back of main unit)



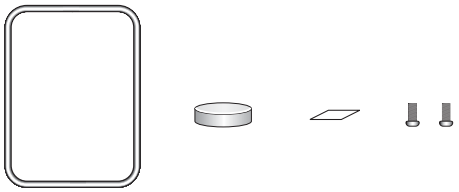
1: Battery Life varies depending on measuring environment, recording interval, transmission frequency, and ambient temperature. Specifications and explanations used in this User's Manual are based on operations carried out with a new battery and are in no way a guarantee of your actual battery life.

2: Operating temperature depends on the specifications for the data logger being used.

■ Power（For TR-5/RTR-5/RVR-5）

TR-00P1 Maintenance Set

Contents	Rubber Packing x 1 (for back of main unit) Silica Gel Pack (drying agent) x 1 Double-sided Adhesive Tape x 1 (for fastening silica gel) Screws x 2 (extras for fastening back of main unit)



TR-11P2 Low-Temperature Battery Set

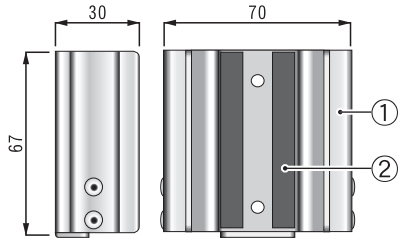
Contents	Lithium Battery x 1（LS14250） Tube x 1 Maintenance set x 1（TR-00P1）

■ Wall Attachment（For TR-5/RTR-5/RVR-5）

unit: millimeters

TR-00K2 Wall Attachment

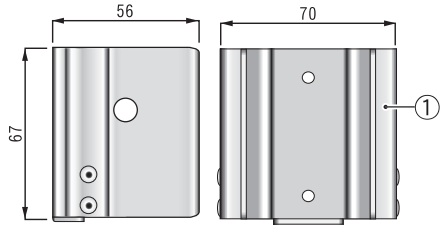
Compatible devices RTR-5/RVR-52A/TR-5



① Aluminum ② Neoprene

TR-05K1L Wall Attachment

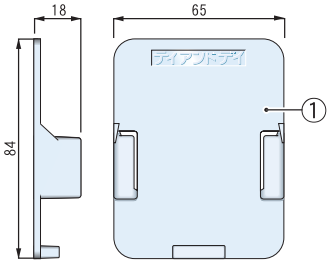
Compatible devices For use with Data Loggers RTR-5L / RVR-52AAL or RTR-5 / RVR-52AA / TR-5 in conjunction with RTR-05A1 Adaptor or RTR-05B1 Battery Pack



① Aluminum

TR-05K2 Wall Attachment

Compatible devices RTR-5/RVR-52A/TR-5



① ABS Resin

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Web Wing WL RTR-5W User's Manual

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