FCL-100 MONITORING SOFTWARE

SWM-FCL01M

INSTRUCTION MANUAL

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About this manual

This manual explains how to install SWM-FCL01M monitoring software.
In this manual, Windows XP is used for purposes of explanation, however, other operating systems (Windows 98/Me/NT4.0/2000) are applicable as well.

Notice when using SWM-FCL01M

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Shinko software: Terms of use

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1. License
   (1) This software can only be used upon accepting Terms of Use.
   Please read carefully these Terms of Use before using this software.
   (2) You may not reverse engineer, decompile or disassemble the software.
2. Copyright
   The copyright for this software belongs to Shinko Technos Co., Ltd.
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4. Copying of the software
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   Users are liable for any problems occurring from the use of this software.
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On the CD-ROM

• In the CD-ROM, the following files are included.
The information on installation method of SWM-FCL01M monitoring software is contained in the following file.
Install_E.txt/Install_J.txt

The information on usage license and copyright of SWM-FCL01M monitoring software is contained in the following file.
Readme_E.txt/Readme_J.txt

The following is the file for installing SWM-FCL01M monitoring software.
For Windows Me/2000/XP, use this file.
SWM-FCL01M_Vxxx.msi [in Win2000 folder]

The following is the file for installing SWM-FCL01M monitoring software.
If the software cannot be installed using the file mentioned above (SWM-FCL01M_Vxxx.msi), use this file. For Windows 98/NT4.0, use this file as well.
setup.exe [in Win98 folder]

• Windows 98/Me/NT4.0/2000/XP are registered trademarks of Microsoft Corporation.

1. Preparation before starting the SWM-FCL01M

1.1 Operating environment

FCL-100 monitoring software ”SWM-FCL01M” will run under the following system requirements.

- **Personal computer**

  Personal computer running Windows 98/Me/NT4.0/2000/XP

  - CPU Pentium4 800MHz or more
  - Main memory Windows 98/Me/NT4.0: 128MByte or more
    Windows 2000 : 256MByte or more
    Windows XP : 512MByte or more
  - Hard disk 20 Megabytes or more of space available
  - RS-232C interface equipment (COM1 to COM8)
  - CD-ROM drive equipped

- **Operating system**

  Windows XP Home Edition (English)
  Windows XP Professional (English)
  Windows 2000 Professional (English)
  Windows Me (English)
  Windows NT4.0 (English)
  Windows 98 (English)

- **Display**

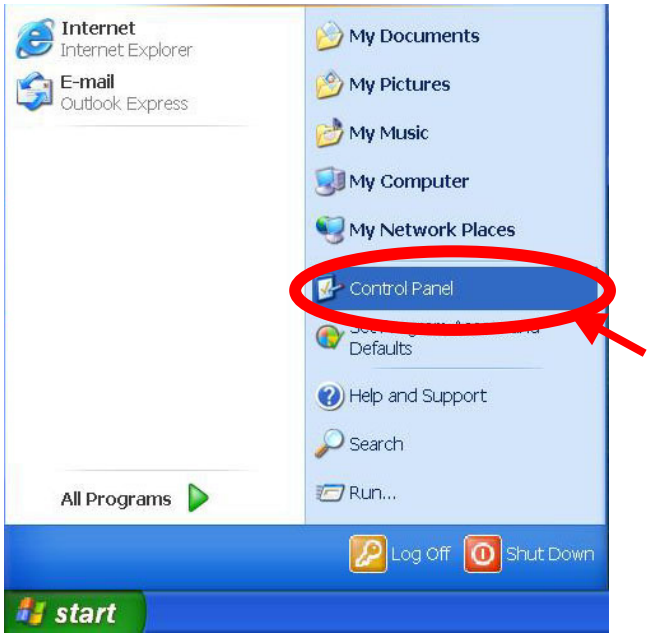
  Resolution, 1024 x 768 dots or more, 256 colors or more
  Use “Normal fonts”.
  To set up the font, refer to pages 3 to 6.

● **How to set up the font size**

To change the font from large to normal, follow the procedures below.

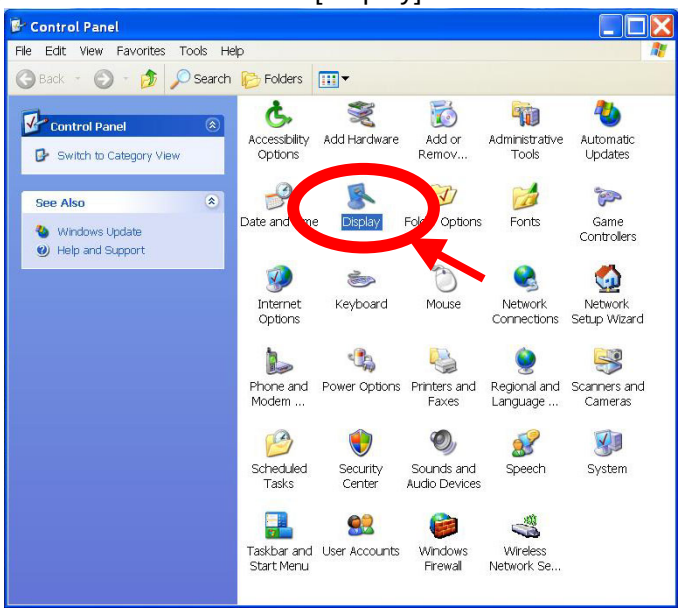
(1) Close all applications which are running.

Select [All Programs] – [Control Panel], and click.



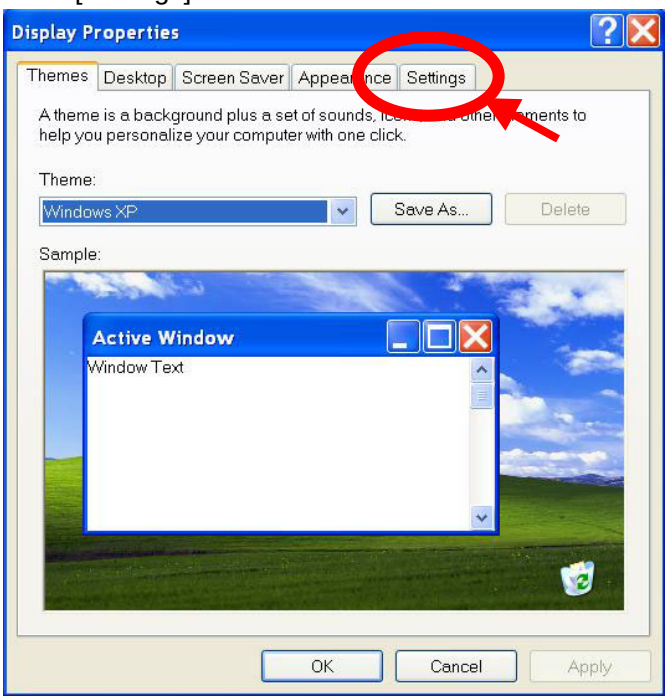
(Fig. 1.1-1)

(2) Double click on the icon [Display].



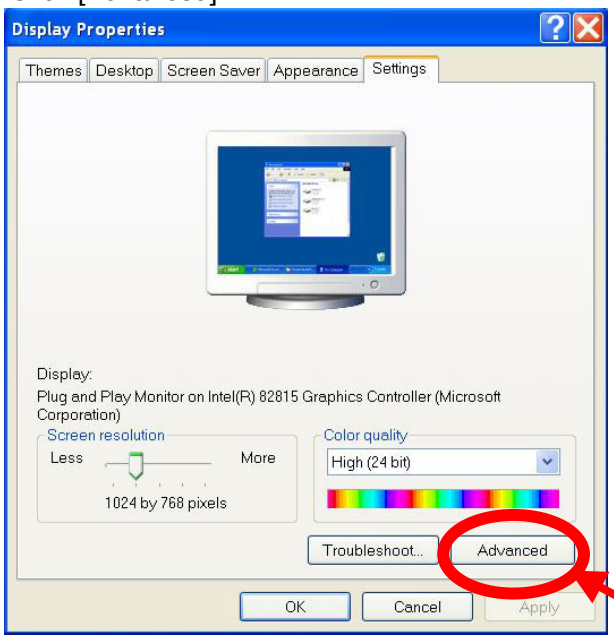
(Fig. 1.1-2)

(3) Click [Settings].



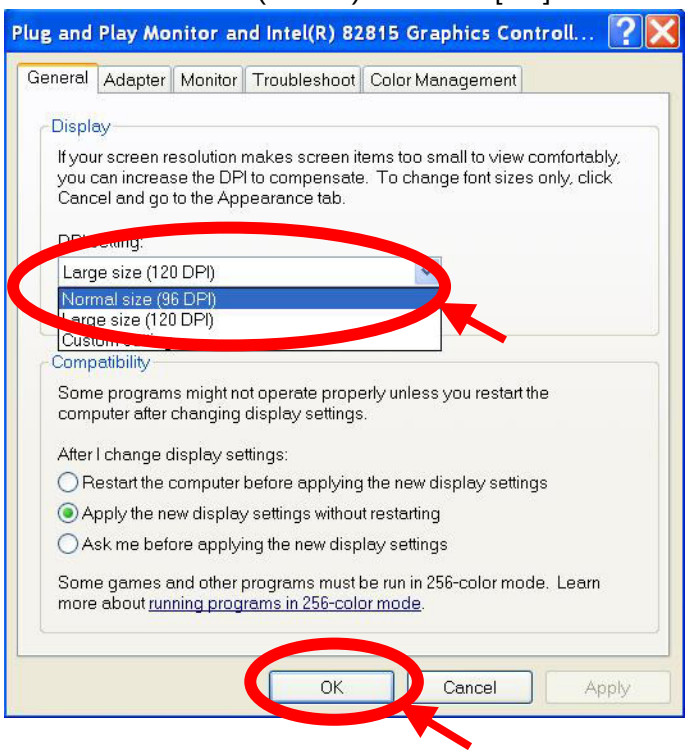
(Fig. 1.1-3)

(4) Click [Advanced].



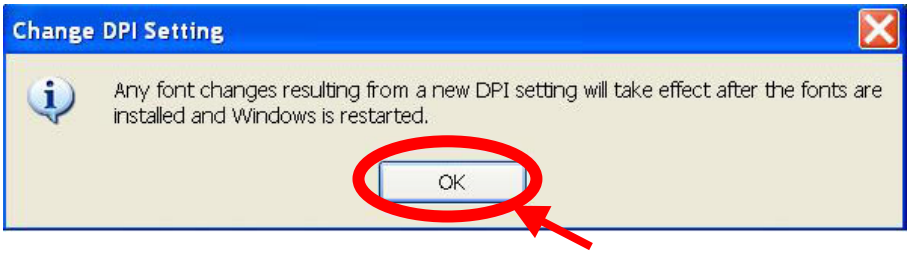
(Fig. 1.1-4)

(5) Select “Normal size (96 DPI)” and click [OK].



(Fig. 1.1-5)

(6) Click [OK].



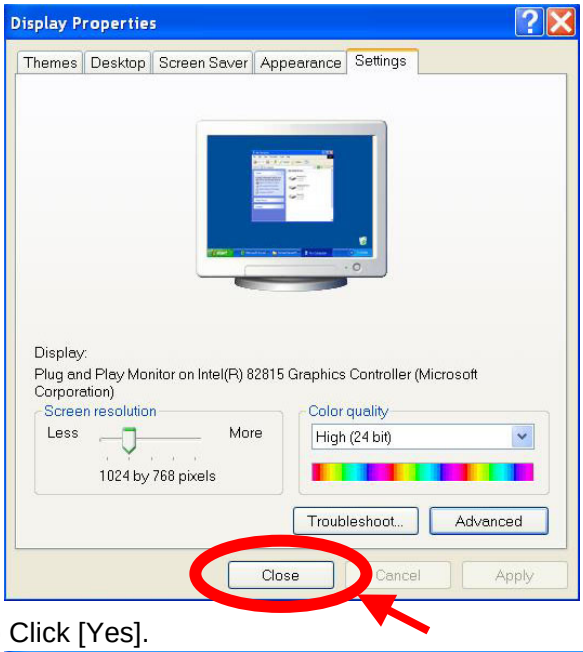
(Fig. 1.1-6)

(7) Click [Yes].



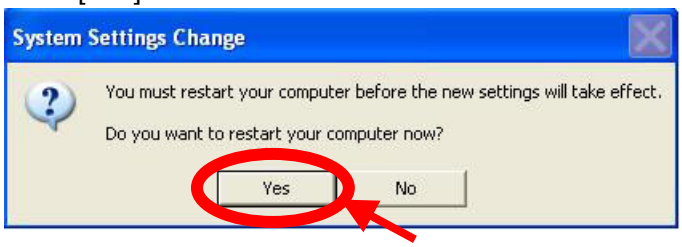
(Fig. 1.1-7)

(8) Click [Close].



(Fig. 1.1-8)

(9) Click [Yes].



(Fig. 1.1-9)

After restarting the system, the font will be set to “Normal size”.

1.2 Installing the SWM-FCL01M

Before installing, close all applications which are running.
Set the font to “Normal size”. (See pages 3 to 6)

The installation of SWM-FCL01M is assumed that the installation file has been successfully downloaded and decompressed into **D drive**.
The personal computer used here has the following drive configuration.
Designate a drive in accordance with your operating environment.

A drive : Floppy disk
C drive : Hard disk
D drive : Hard disk
E drive : CD-ROM

In the downloaded folder, 2 installation files are included as shown below.

The following is the file for installing SWM-FCL01M.

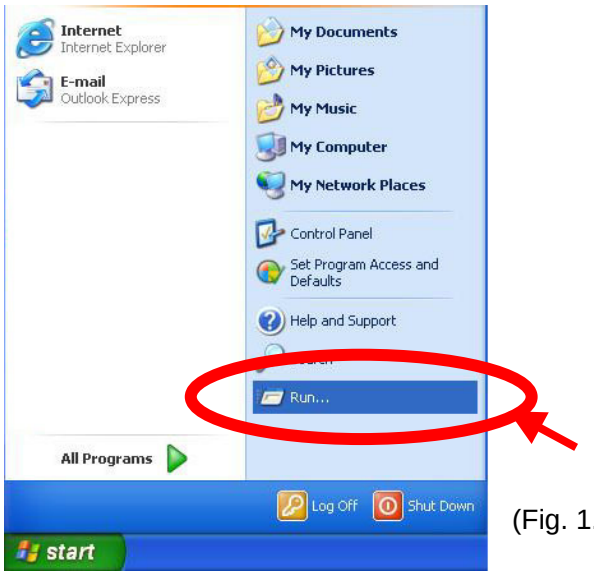
- **SWM-FCL01M_Vxxx.msi** [in Win2000 folder]
  For Windows Me/2000/XP, use this file.
  For installation, see pages 7 to 10.

The following is the file for installing SWM-FCL01M.

- **setup.exe** [in Win98 folder]
  For Windows 98/NT4.0, use this file.
  This file is also used when it is impossible to install SWM-FCL01M with the file **SWM-FCL01M_Vxxx.msi** above.
  For installation, see pages 10 to 11.

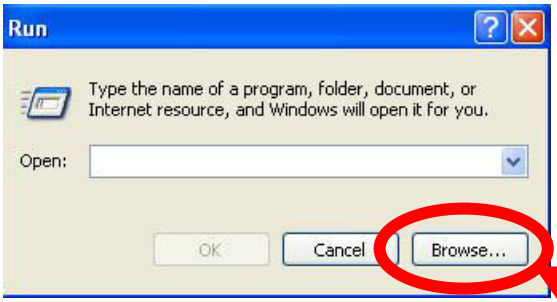
When the computer is running Windows Me/2000/XP

(1) Select [RUN...] on the start menu and click on it.



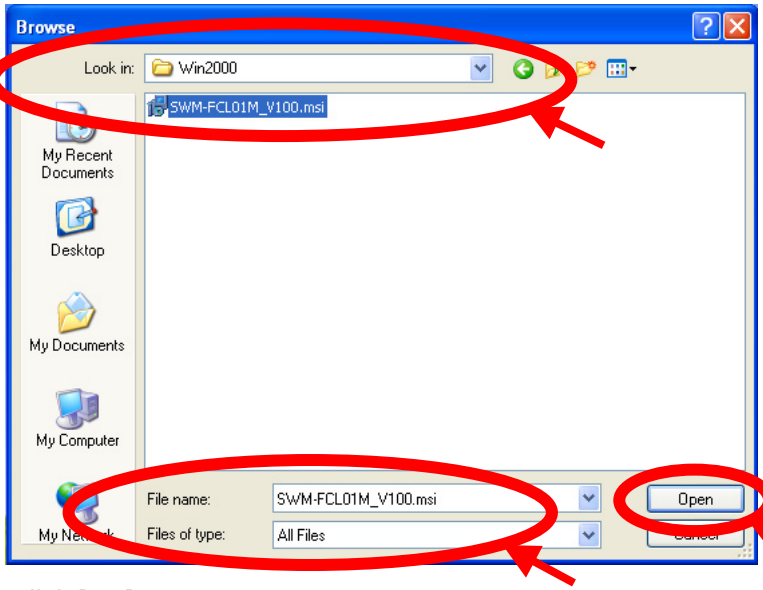
(Fig. 1.2-1)

(2) Click [Browse...].



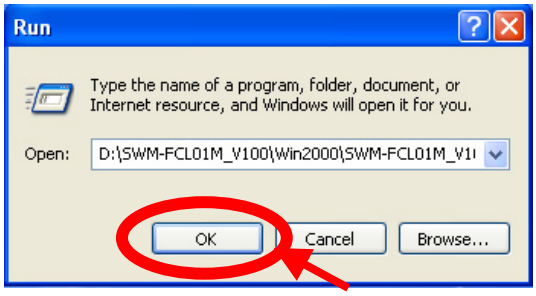
(Fig. 1.2-2)

(3) Select “D” drive and “SWM-FCL01M_Vxxx.msi” – “Win2000” from [Look in].
Select “All Files” from Files of type.
Select SWM-FCL01M_Vxxx.msi file, and click [Open].



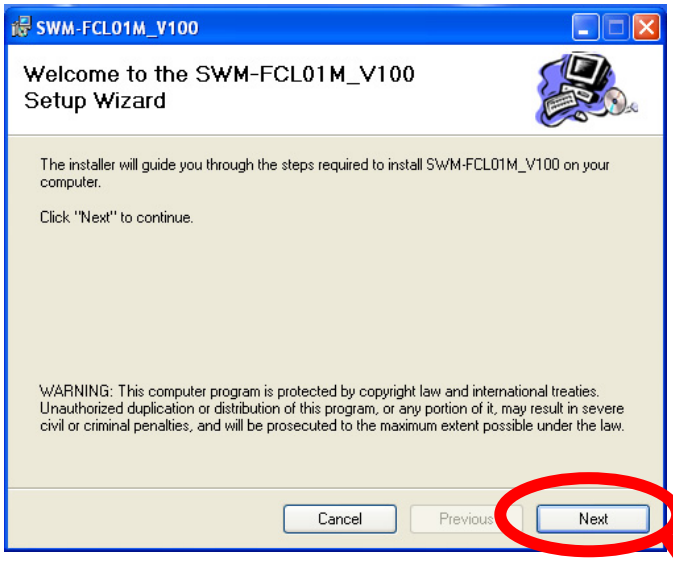
(Fig. 1.2-3)

(4) Click [OK].
SWM-FCL01M_Vxxx setup wizard appears.



(Fig. 1.2-4)

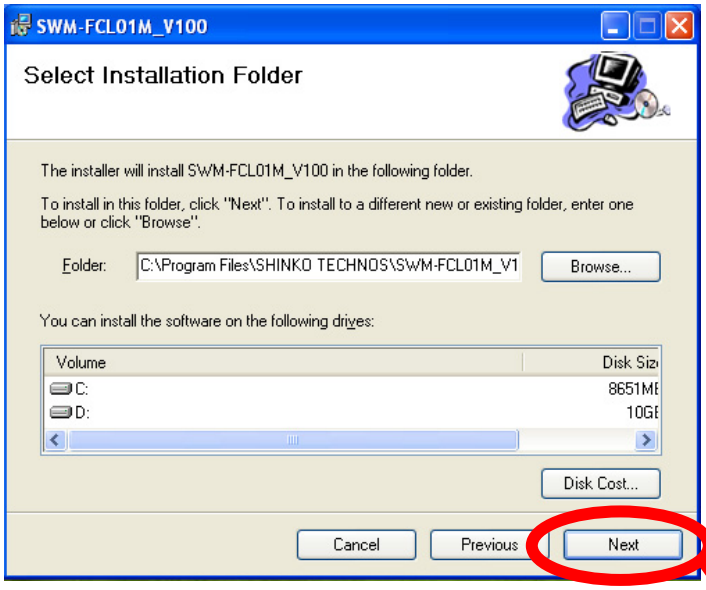
(5) Click [Next].
To cancel installation, click [Cancel].



(Fig. 1.2-5)

(6) Confirm the name of the drive and folder (directory) for installation destination.
"C:\Program Files\SHINKO TECHNOS\SWM-FCL01M_Vxxx\" has been already designated for installation as default.

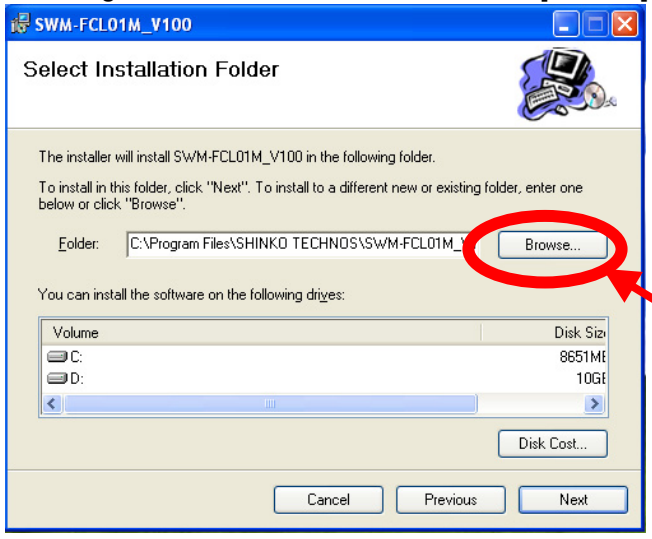
If this designation is OK, click [Next].
To cancel the installation, click [Cancel].
To return to the previous screen, click [Previous].



(Fig. 1.2-6)

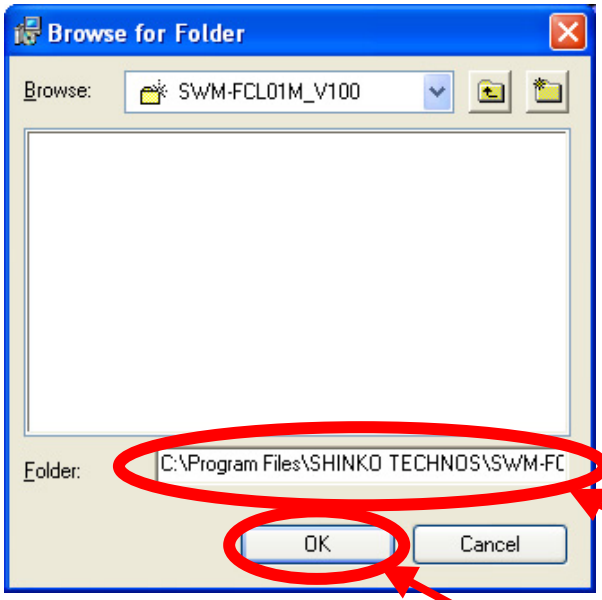
Displays for changing the installation destination

To change the installation destination, click [Browse].



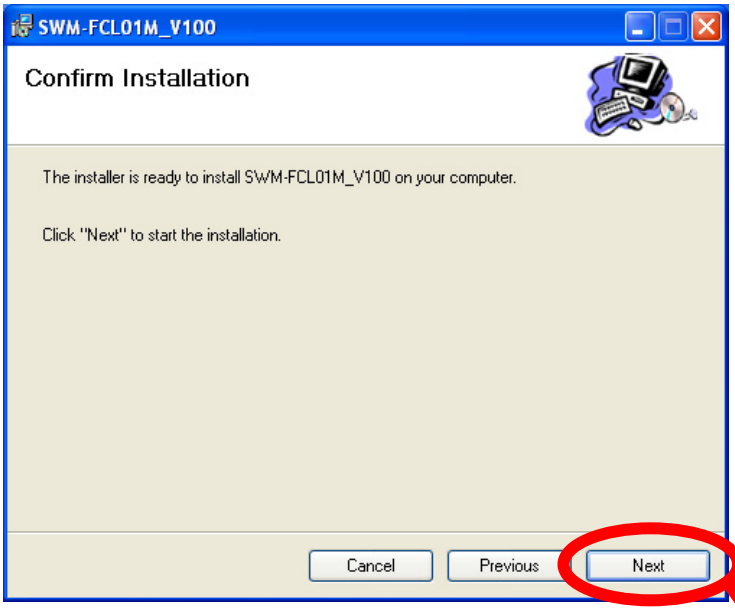
(Fig. 1.2-7)

Designate the name of drive and folder (directory), and click [OK].
To revert to the previous display without selecting, click [Cancel].



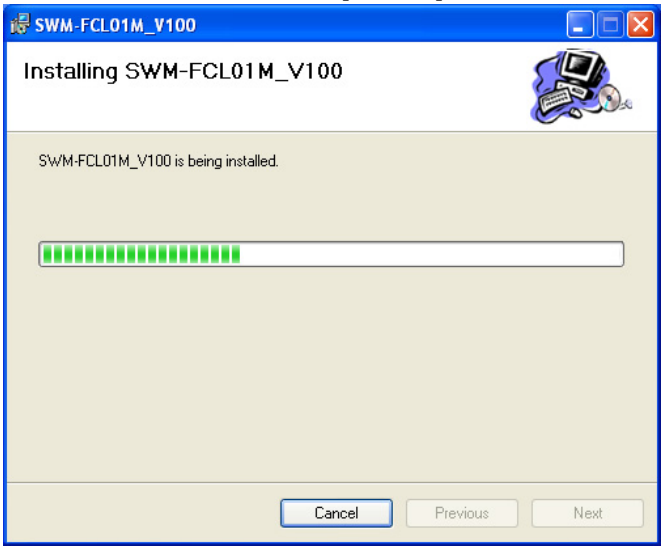
(Fig. 1.2-8)

(7) The screen for confirming installation appears.
Click [Next].
To cancel installation, click [Cancel].
To revert to the previous screen, click [Previous].



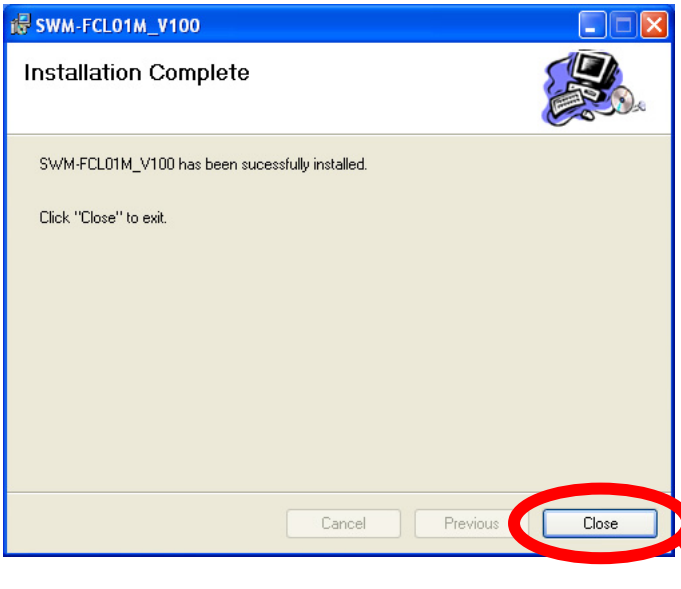
(Fig. 1.2-9)

(8) The file copying status will be indicated with a bar.
To cancel installation, click [Cancel].



(Fig. 1.2-10)

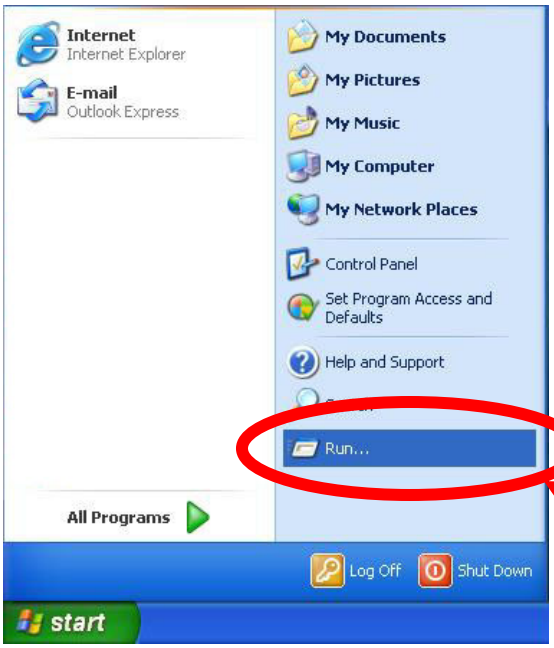
(9) When installation is complete, the following display will appear.
Click [Close].



(Fig. 1.2-11)

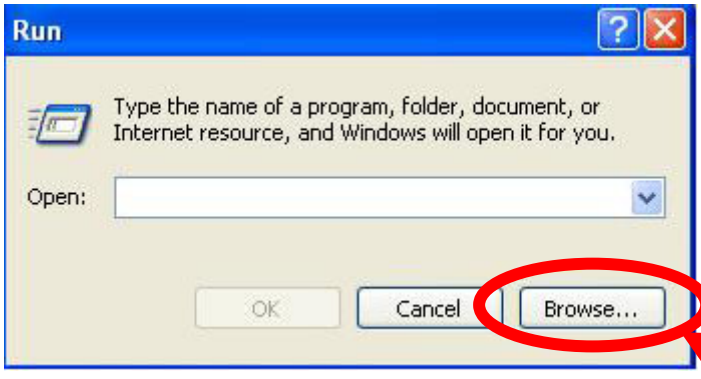
When the computer is running Windows 98/NT4.0

(1) Select [Run…] and click on it.



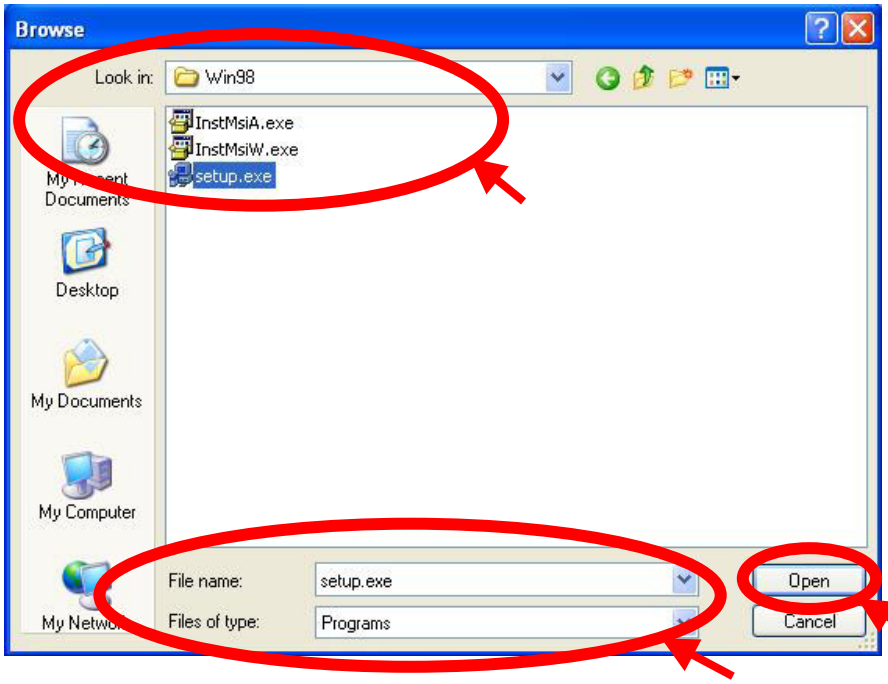
(Fig. 1.2-12)

(2) Click [Browse...].



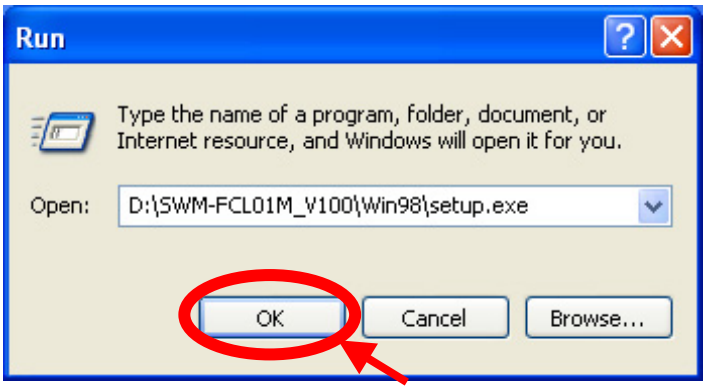
(Fig. 1.2-13)

(3) Select “D” drive and “SWM-FCL01M_Vxxx” – “Win98” folder from [Look in].
Select the setup file “setup.exe”, and click [Open].



(Fig. 1.2-14)

(4) Click [OK].
SWM-FCL01M_Vxxx setup wizard appears.



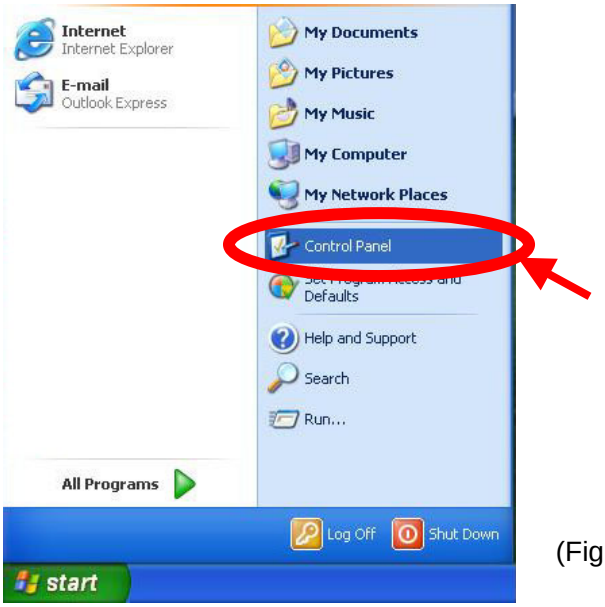
(Fig. 1.2-15)

(5) Installation method is the same as that of Windows Me/2000/XP.
Install the software, referring to steps from (5) of Windows Me/2000/XP. (See pages 8 to 10)

1.3 Uninstalling the SWM-FCL01M

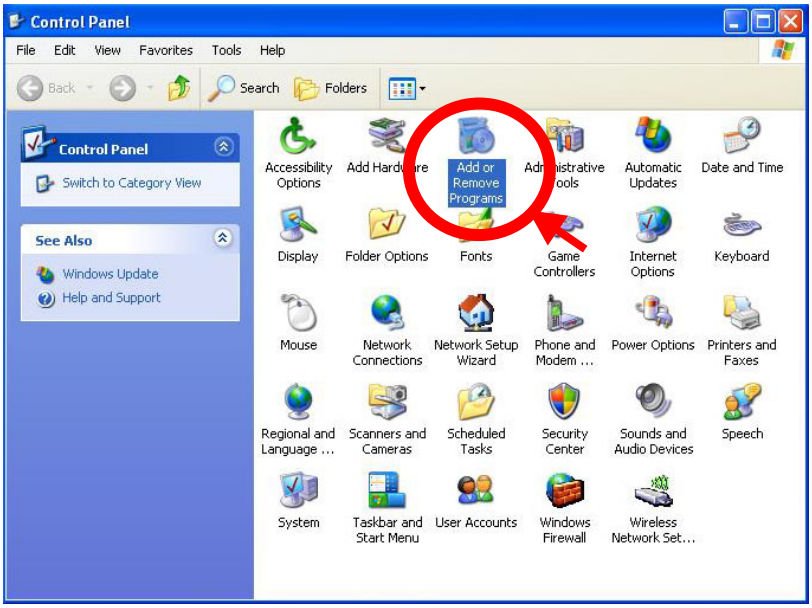
The procedures to uninstall the related files of the SWM-FCL01M from the hard disk are described as follows.

(1) Select [All Programs] on the start menu – [Control Panel], and click.



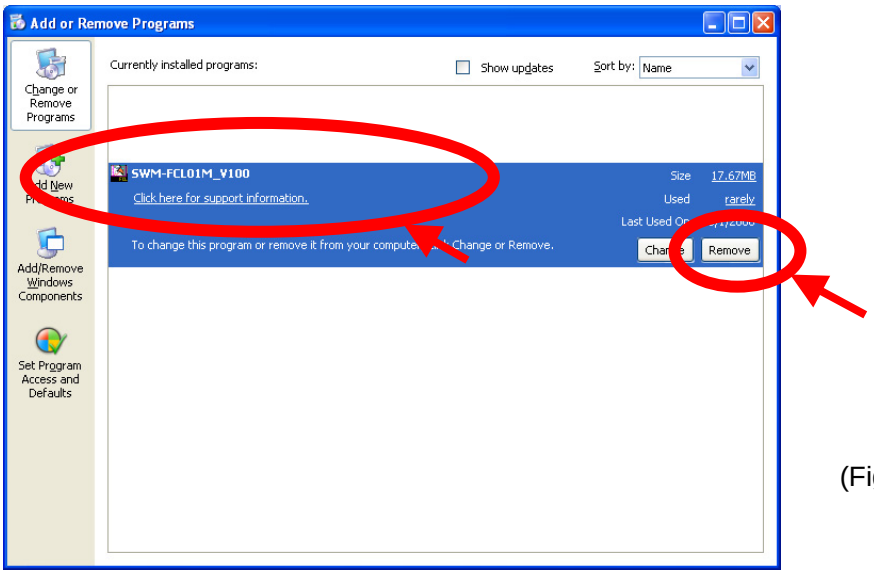
(Fig. 1.3-1)

(2) Double-click on the icon [Add or Remove Programs].



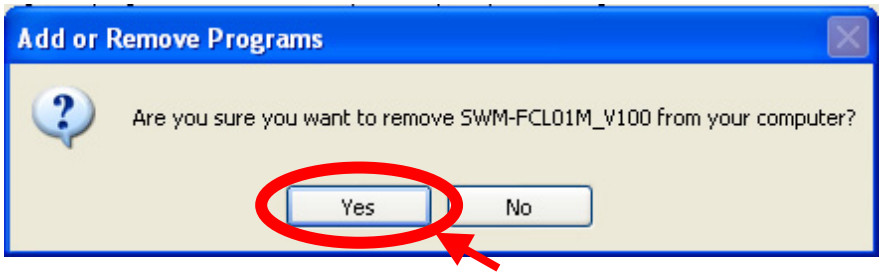
(Fig. 1.3-2)

(3) Click or select “SWM-FCL01M_Vxxx” in the application list, and click [Remove].



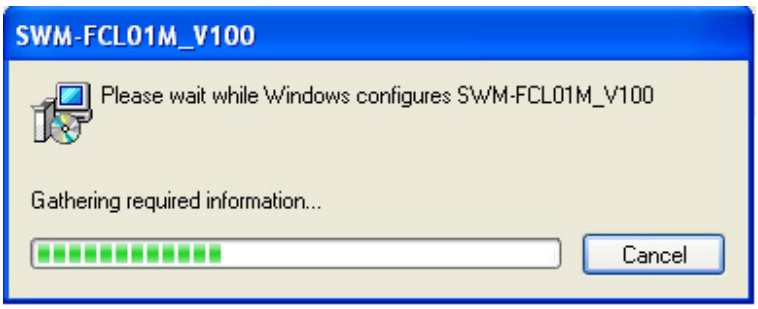
(Fig. 1.3-3)

(4) The dialog box to confirm the removal will appear.
Click [Yes].



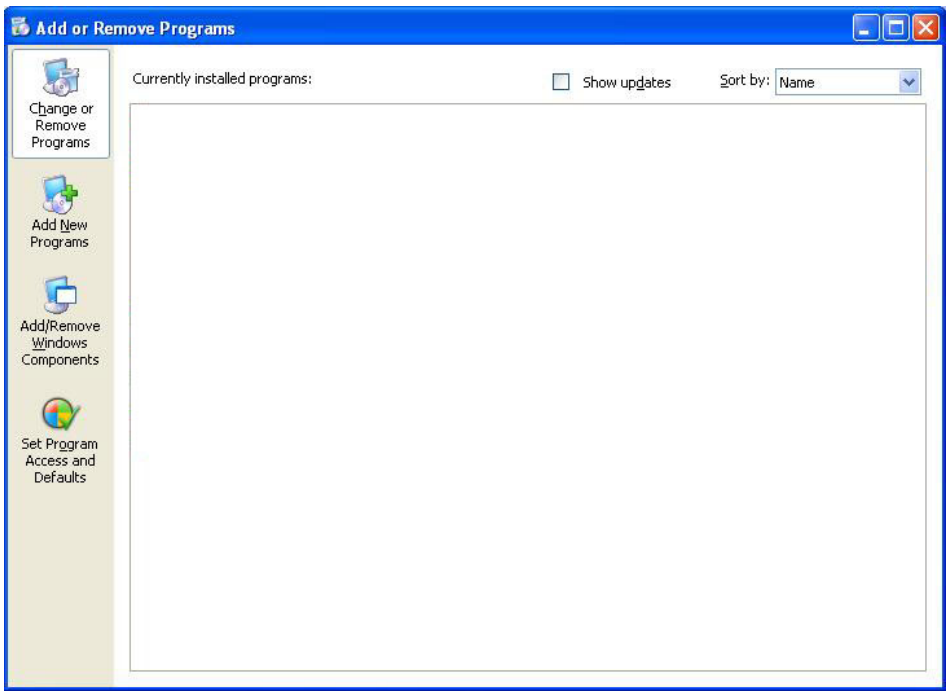
(Fig. 1.3-4)

(5) The file uninstalling status will be indicated with a bar.
To cancel uninstalling the software, click [Cancel].



(Fig. 1.3-5)

(6) Confirm that “SWM-FCL01M_Vxxx” has been removed from the application list.



(Fig. 1.3-6)

2. Starting and terminating the SWM-FCL01M

2.1 Wiring between a personal computer and FCL-100

⚠ Notice

Before starting the Monitoring software, check the following points, referring to "Auxiliary function setting mode 1" in the Instruction manual for the FCL-100.

- **Set the instrument number individually.**
  - **FCL-100 instrument number 0: Ch01 (Channel number 1)**
  - **FCL-100 instrument number 1: Ch02 (Channel number 2)**
  - **FCL-100 instrument number 94: CH95 (Channel number 95)**
- **Set the communication speed in accordance with the personal computer and communication converter (19200bps is recommended).**

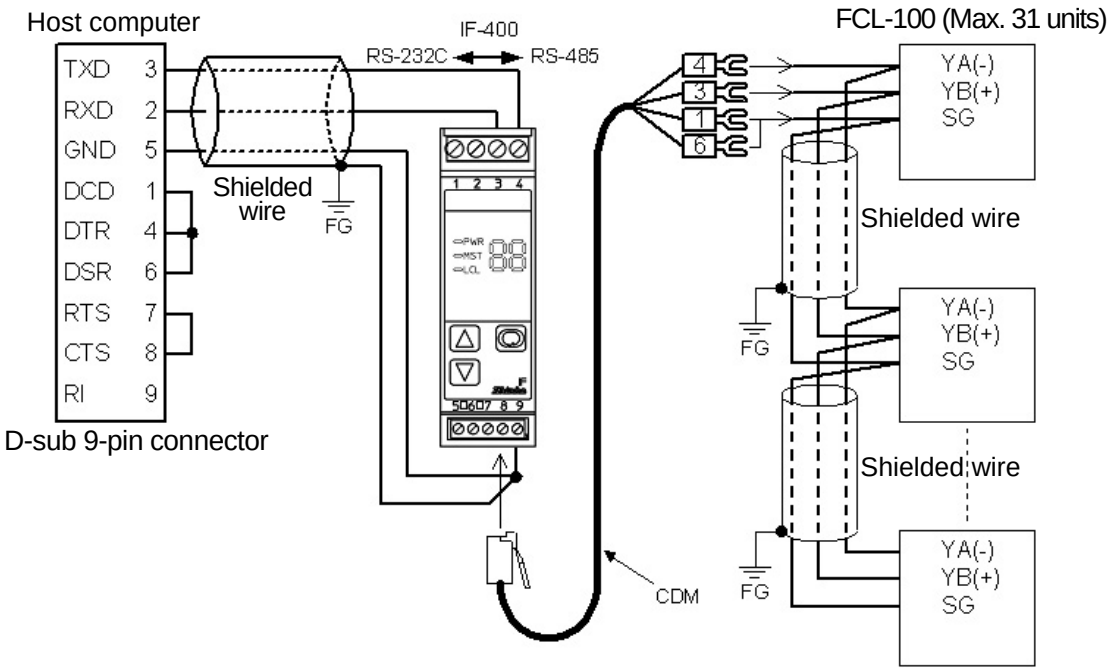
Wire the D-sub connector as shown below. Communication is impossible without wiring.

- **D-sub 9-pin connector : Between terminals 1-4-6, between terminals 7-8**
- **D-sub 25-pin connector : Between terminals 4-5, between terminals 6-8-20**

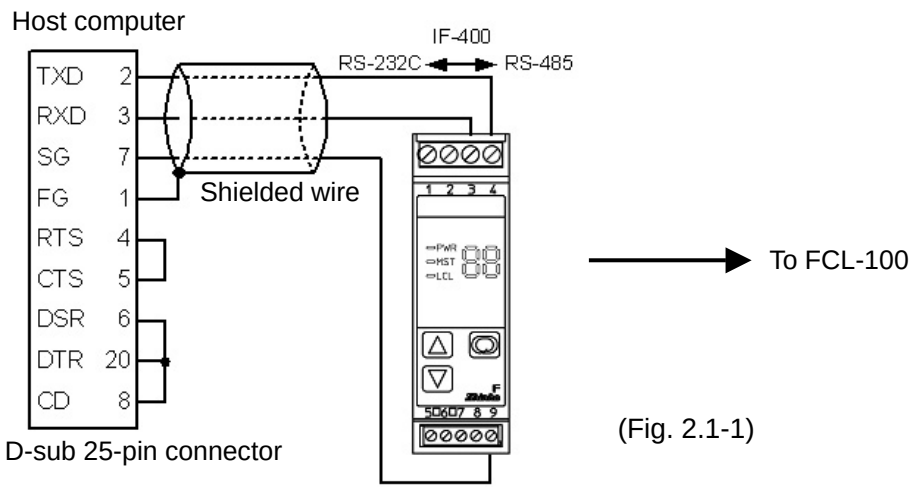
● **Wiring example 1**

When the IF-400 is used as a communication converter, a maximum of 31 units of the FCL-100 can be connected.

[When using D-sub 9-pin connector]



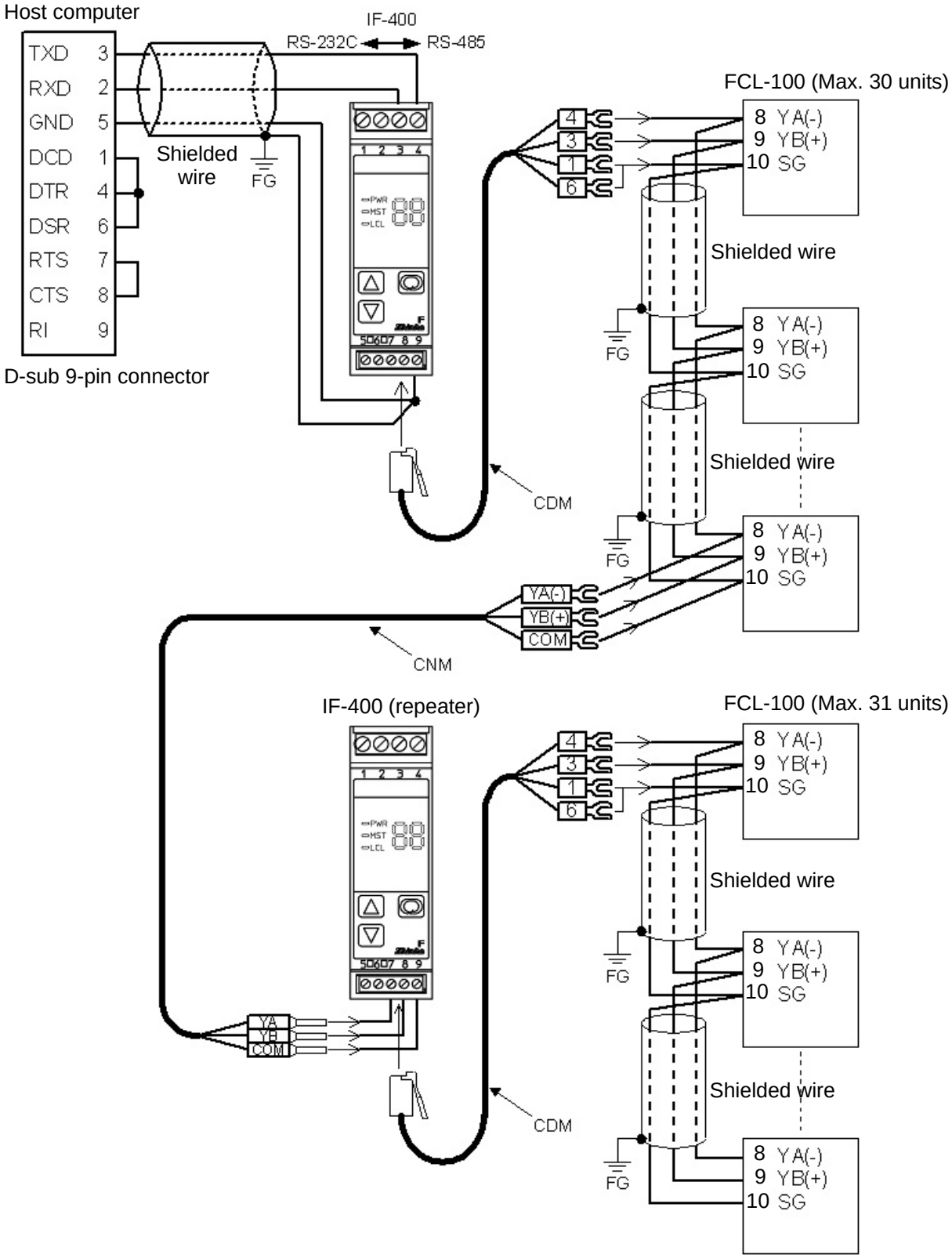
[When using D-sub 25-pin connector]



(Fig. 2.1-1)

● **Wiring example 2**

When the IF-400 is used as a repeater, more than 32 units of the FCL-100 can be connected.
Communication line can be extended more than 1.2km.
Up to 3 units of repeater can be used, therefore, up to 95 units of the FCL-100 can be connected.
(Communication line: Max. 4.8km)

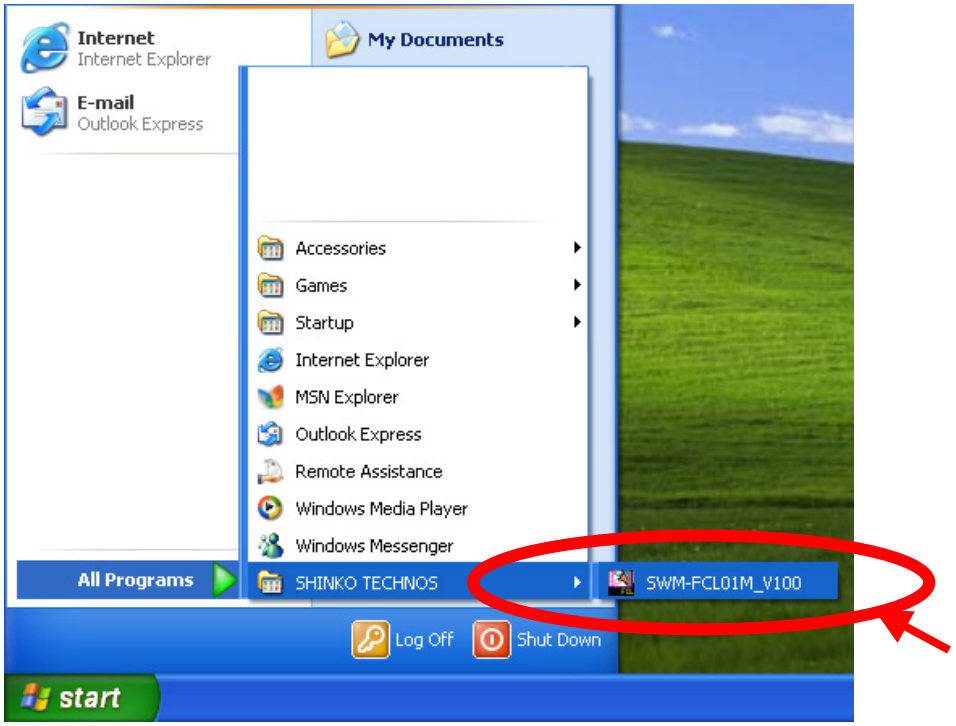


(Fig. 2.1-2)

2.2 Starting the SWM-FCL01M

(1) Confirm that the communication cable has been connected to communication port of the personal computer.

Select [All programs] on the start menu – [SHINKO TECHNOS] – [SWM-FCL01M_Vxxx], and click.



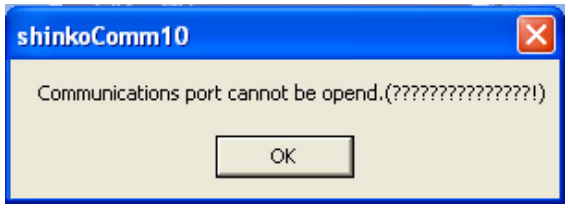
(Fig. 2.2-1)

(2) The monitoring software opening display will appear, and the FCL-100 data will be read.



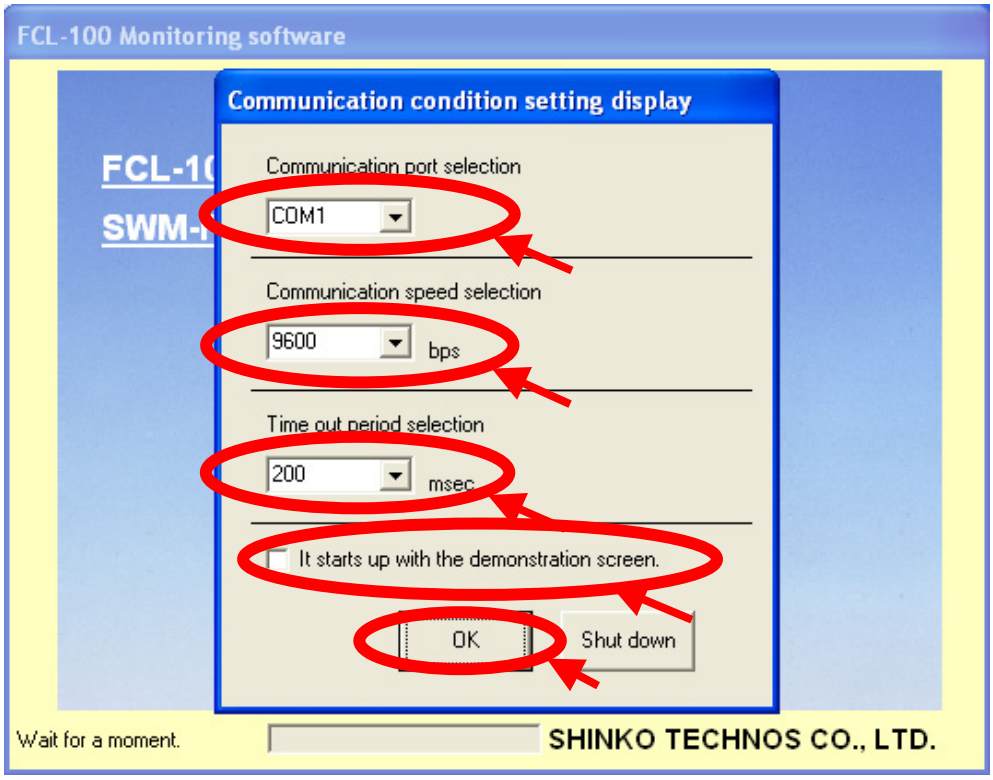
(Fig. 2.2-2)

If a communication cable is not connected to the PC com port, the following display will appear. Check the wiring and click [OK].



(Fig.2.2-3)

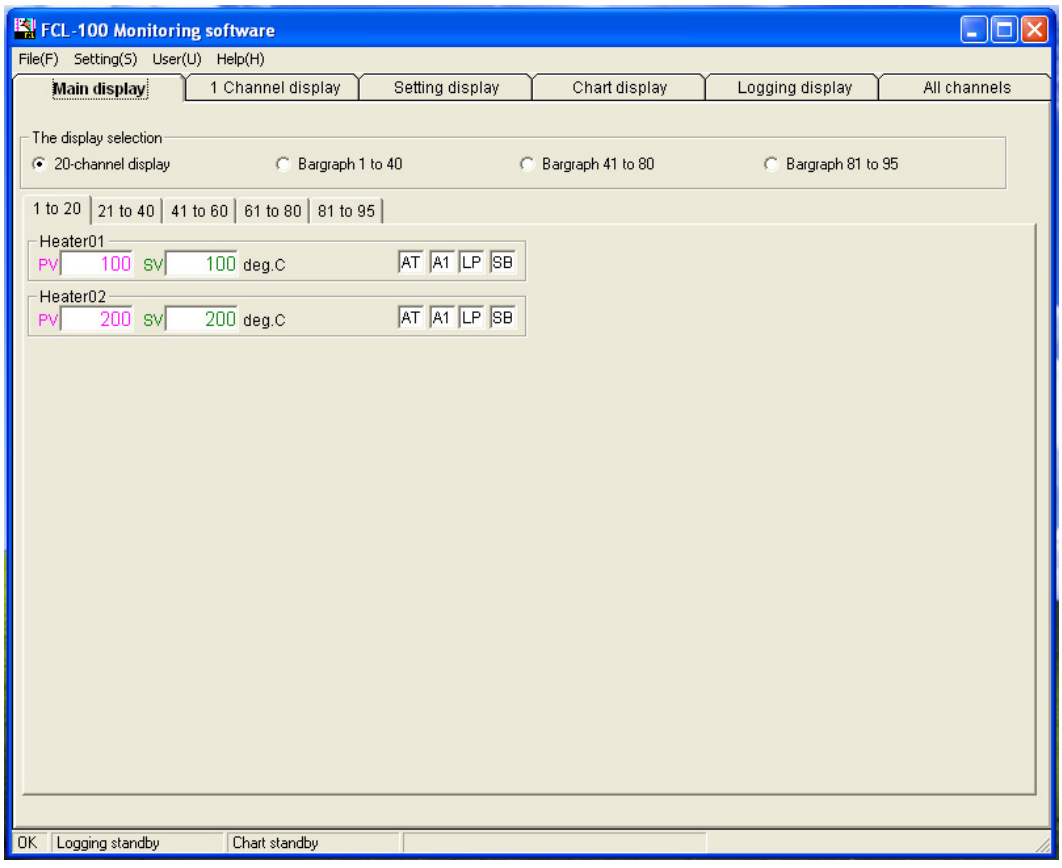
If Communication condition setting display appears, select the communication port and speed, then click [OK].
In case the FCL-100 does not respond after receiving commands from this software, the maximum waiting time of response is the Timeout period.
Default value of the Timeout period: 200msec.
If "☐ It starts up with the demonstration screen" is clicked (☑), and [OK] is clicked, demonstration display of the monitoring software will start even if the FCL-100 is not connected.



(Fig. 2.2-4)

(3) The monitoring software will start.

Main display



(Fig. 2.2-5)

2.3 Displays and operation of the SWM-FCL01M

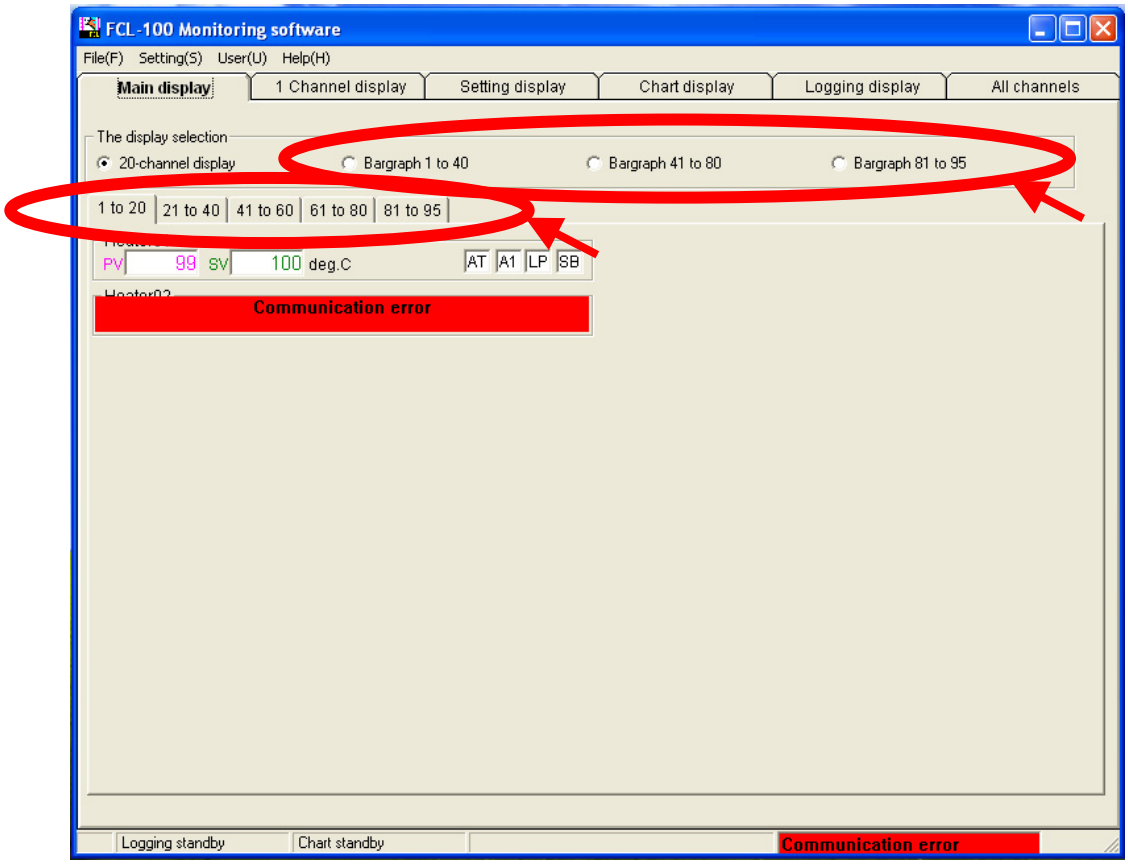
2.3.1 Displays

Displays can be switched by clicking the tab.

(1) Main display

PV, SV and Alarm status of the FCL-100 can be monitored every 20 channels.
Only the connected units are indicated.
A maximum of 95 channels can be indicated by clicking [1 to 20], [21 to 40], [41 to 60], [61 to 80] and [81 to 95] tab.
During auto-tuning/auto-reset, “AT” is indicated in yellow.
If Alarm 1 is activated, “A1” is indicated in the color set during Alarm color setting display (Alarm 1 color setting) (p.33).
If Loop break alarm (LP) or Sensor burnout alarm (SB) is activated, “LP” or “SB” is indicated in red.

If a communication error (no response) occurs to a channel, a “Communication error” message will be indicated.
When a communication error (no response) is solved, the “Communication error” message will disappear.



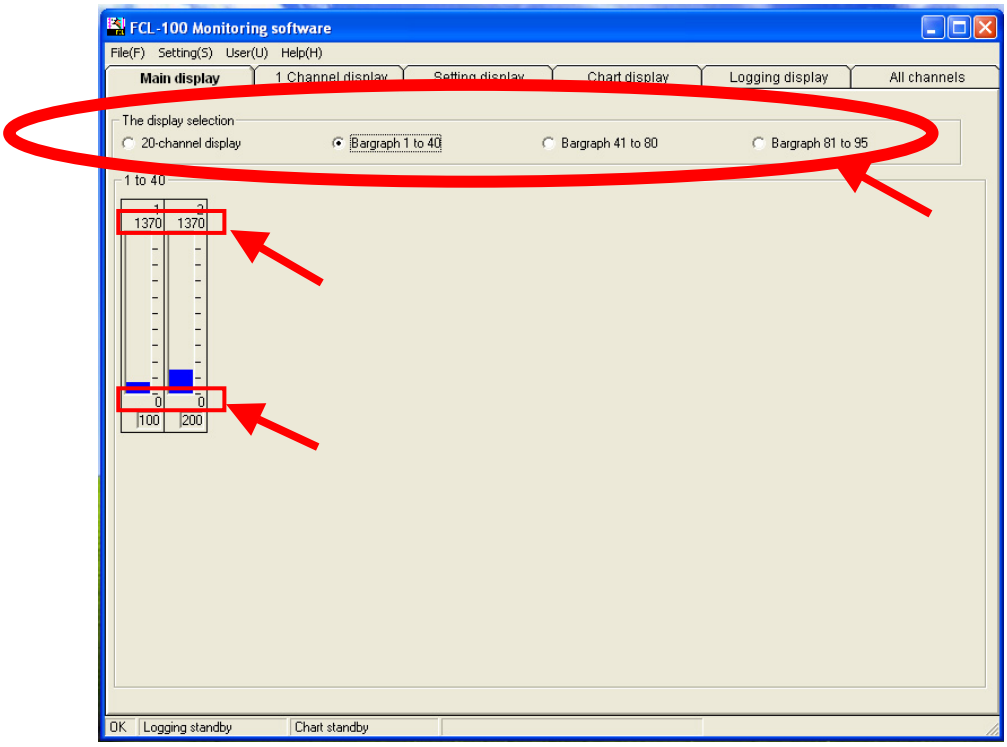
(Fig. 2.3.1-1)

Operation explanation

By clicking the following tab, 20 channels can be switched at a time.
[1 to 20] tab : Data for the instrument numbered 0 to 19 is indicated.
[21 to 40] tab : Data for the instrument numbered 20 to 39 is indicated.
[41 to 60] tab : Data for the instrument numbered 40 to 59 is indicated.
[61 to 80] tab : Data for the instrument numbered 60 to 79 is indicated.
[81 to 95] tab : Data for the instrument numbered 80 to 94 is indicated.

Bar graph 1 to 40 : If is clicked ( ), the bar graph screen for the instrument numbered 0 to 39 appears.
Bar graph 41 to 80: If is clicked ( ), the bar graph screen for the instrument numbered 40 to 79 appears.
Bar graph 81 to 95: If is clicked ( ), the bar graph screen for the instrument numbered 80 to 94 appears.

Bar graph display



(Fig. 2.3.1-2)

The following items are described in the bar graph from the top:
Channel number, scaling high limit value, bar graph, scaling low limit value, PV

Bar graph color

Blue: Normal status

Red : If any alarm (Loop break alarm, Sensor burnout alarm, overscale, underscale) is activated, the bar graph color turns red.
If Alarm 1 is activated, the bar graph color turns to the color set during Alarm color setting display (Alarm 1 color setting) (p.33).
If more than 2 types of alarm are activated simultaneously, the bar graph color turns to the color set during Alarm color setting display (Combined alarms color setting) (p.33).
After the alarm is released, the bar graph color turns to blue.

Operation explanation

If ○ is clicked (◉), the display for 40 channels can be switched.
Nothing will be indicated if the FCL-100 is not connected.

○ Bar graph 1 to 40 : If ○ is clicked (◉), the bar graph screen for the instrument numbered 0 to 39 appears.

○ Bar graph 41 to 80: If ○ is clicked (◉), the bar graph screen for the instrument numbered 40 to 79 appears.

○ Bar graph 81 to 95: If ○ is clicked (◉), the bar graph screen for the instrument numbered 80 to 94 appears.

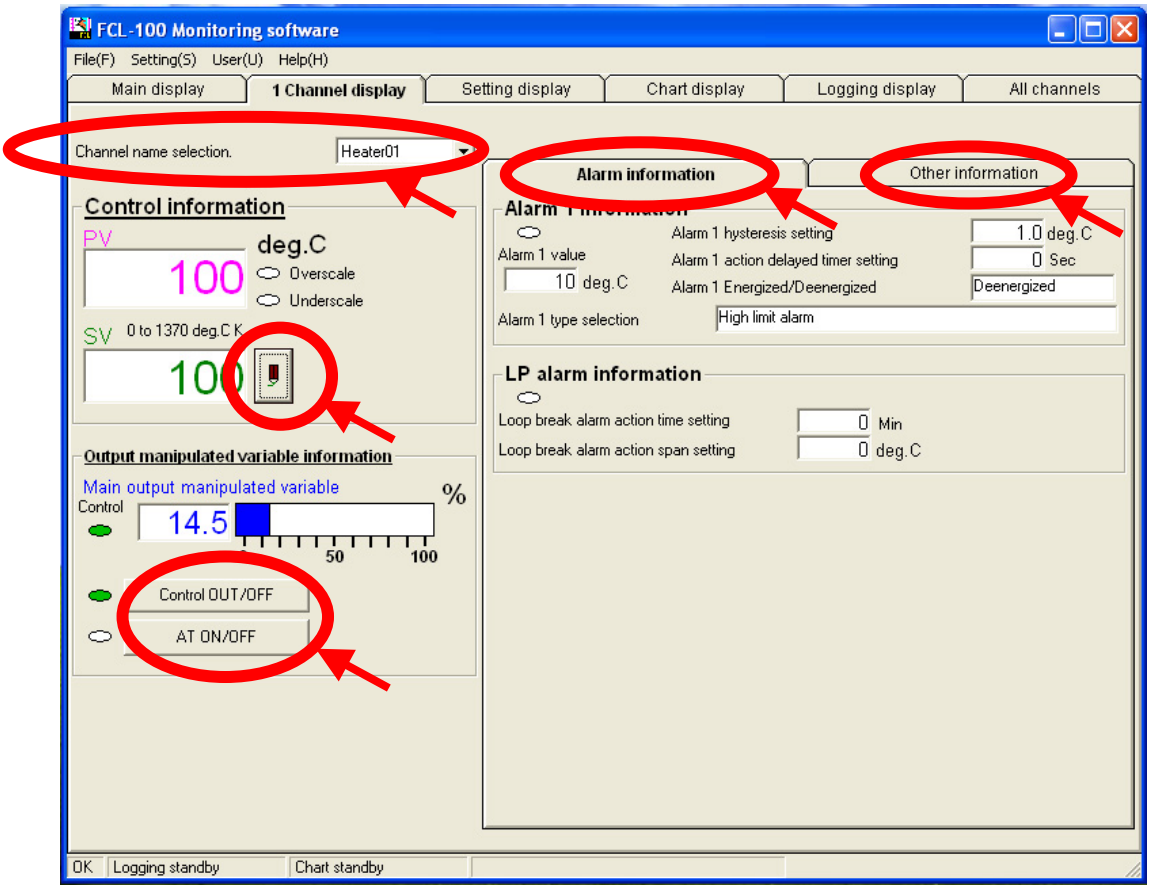
○ 20-channel display: If ○ is clicked (◉), the main display appears.

Setting on the bar graph: If the value on the bar graph is clicked with the left mouse button, scaling high limit and low limit can be changed.

(2) 1 channel display

All items of one FCL-100 unit selected during Channel name selection can be monitored.
If Alarm 1 is activated, “A1” is indicated in the color set during Alarm color setting display (Alarm 1 color setting) (p.33).
Loop break alarm (LP), overscale and underscale are indicated in red.

If a communication error (no response) occurs to a channel, a “Communication error” message will be indicated.
When a communication error (no response) is solved, the “Communication error” message will disappear.



(Fig. 2.3.1-3)

Operation explanation

[Channel name selection] : Selects the desired channel name to be indicated by clicking the ▼ button.
The message “This channel has not been connected to the instrument” will appear if the channel of the disconnected unit is selected.

[SV setting] button : By clicking this button, onscreen numerical keyboard appears.
Input SV and click [OK].

[Control OUT/OFF] button: If this button is clicked during control performance, control output OFF function initiates, and all outputs are turned OFF.
Clicking this button again releases the control output OFF function, and the controller returns to control performing status.

[AT ON/OFF] button : By clicking this button, auto-tuning starts.
Clicking this button again stops the auto-tuning.

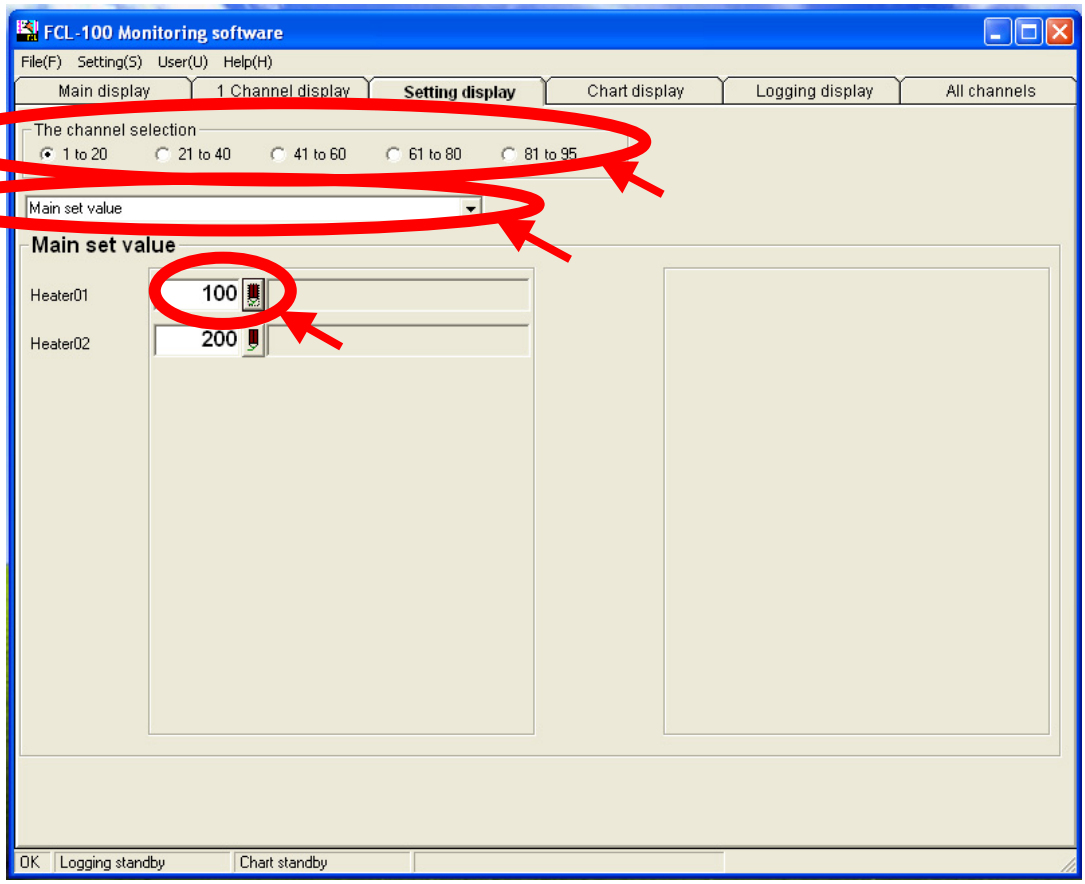
[Alarm information] tab : Indicates information on Alarm 1 and Loop break alarm.

[Other information] tab : Indicates information on Set value lock, P, I, D, ARW, Proportional cycle, etc.

(3) Setting display

Set values can be set for each of the 20 channels.
For the channel to which the FCL-100 is not connected, and for the channel of the controller to which power is not supplied, nothing will be indicated.

If a communication error (no response) occurs to a channel, a “Communication error” message will be indicated.
When a communication error (no response) is solved, the “Communication error” message will disappear.



(Fig. 2.3.1-4)

Operation explanation

1 to 20 : If is clicked ( ), the set values of the instrument numbered 0 to 19 are indicated.

21 to 40 : If is clicked ( ), the set values of the instrument numbered 20 to 39 are indicated.

41 to 60 : If is clicked ( ), the set values of the instrument numbered 40 to 59 are indicated.

61 to 80 : If is clicked ( ), the set values of the instrument numbered 60 to 79 are indicated.

81 to 95 : If is clicked ( ), the set values of the instrument numbered 80 to 94 are indicated.

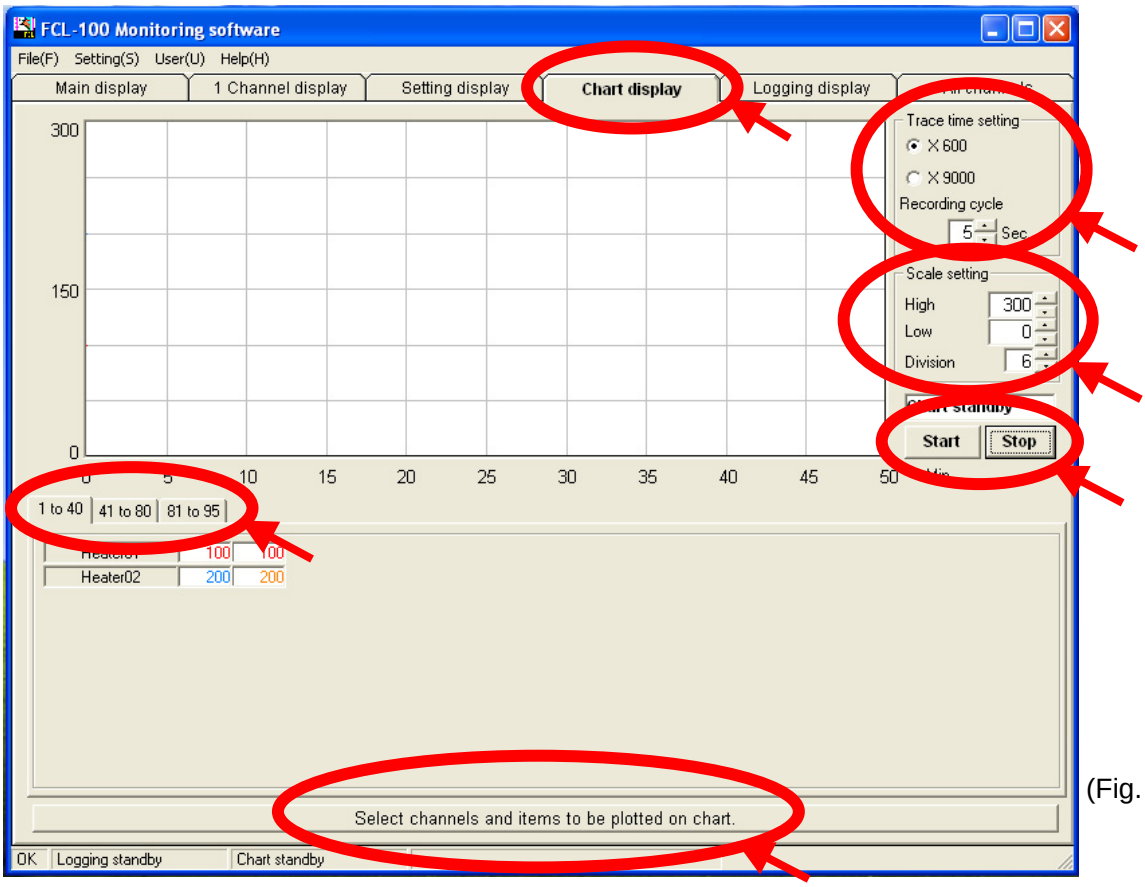
[Setting item selection]: Select the desired item to be set by clicking the ▼ button.

[Setting] button : By clicking this button, onscreen numerical keyboard or selection screen appears.
Enter a value or make a selection, and click [OK].

(4) Chart display

The chart plotting can be performed.
A maximum of 95 points can be plotted out of PV and SV.

Unless chart plot conditions are set, chart plotting cannot be started.
If chart plotting starts again after it is cancelled, the chart screen is cleared, and the new chart is plotted again.
If the monitoring software is closed during chart plotting, the new chart is automatically plotted the next time the monitoring software starts.



(Fig. 2.3.1-5)

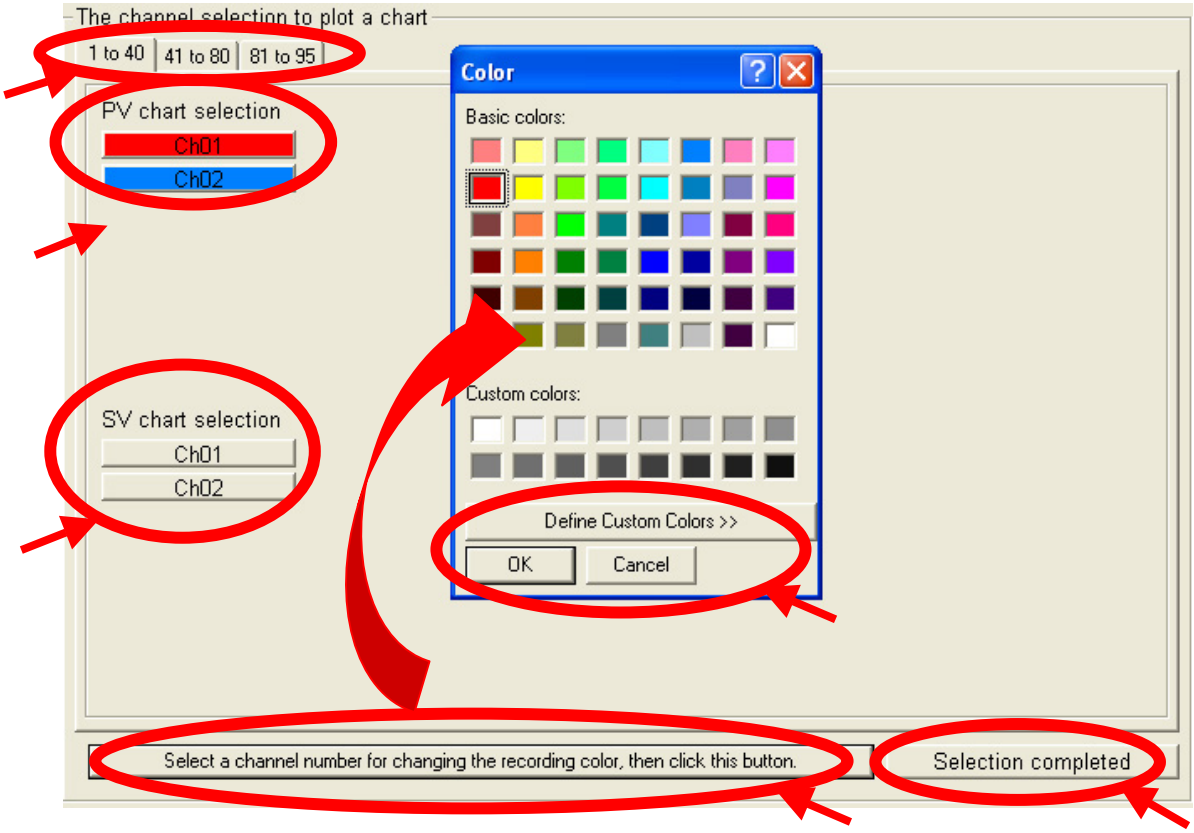
Operation explanation

[Trace time setting]: Select the number of samples, and set the recording cycle (1 to 60 sec.).
(e.g.) The number of samples: 600
Recording cycle: 5 sec.
→ 3000 seconds
→ X axis indication: 0 to 50 minutes.

[Scale setting]: Set high limit and low limit values of chart indication and Y axis division.
[Start] button : Clicking this button starts chart indication.
[Stop] button : Clicking this button stops chart indication.
[1 to 40] tab : Data of the instrument numbered 0 to 39 is indicated.
[41 to 80] tab : Data of the instrument numbered 40 to 79 is indicated.
[81 to 95] tab : Data of the instrument numbered 80 to 94 is indicated.
[Select channels and items to be plotted on chart] button:
Clicking this button proceeds to the Chart plot condition setting display.

(5) Chart plot condition setting display

The plot conditions such as channel number, plotting item and chart color can be set.
Unless chart plot conditions are set, the chart plotting cannot start.



(Fig. 2.3.1-6)

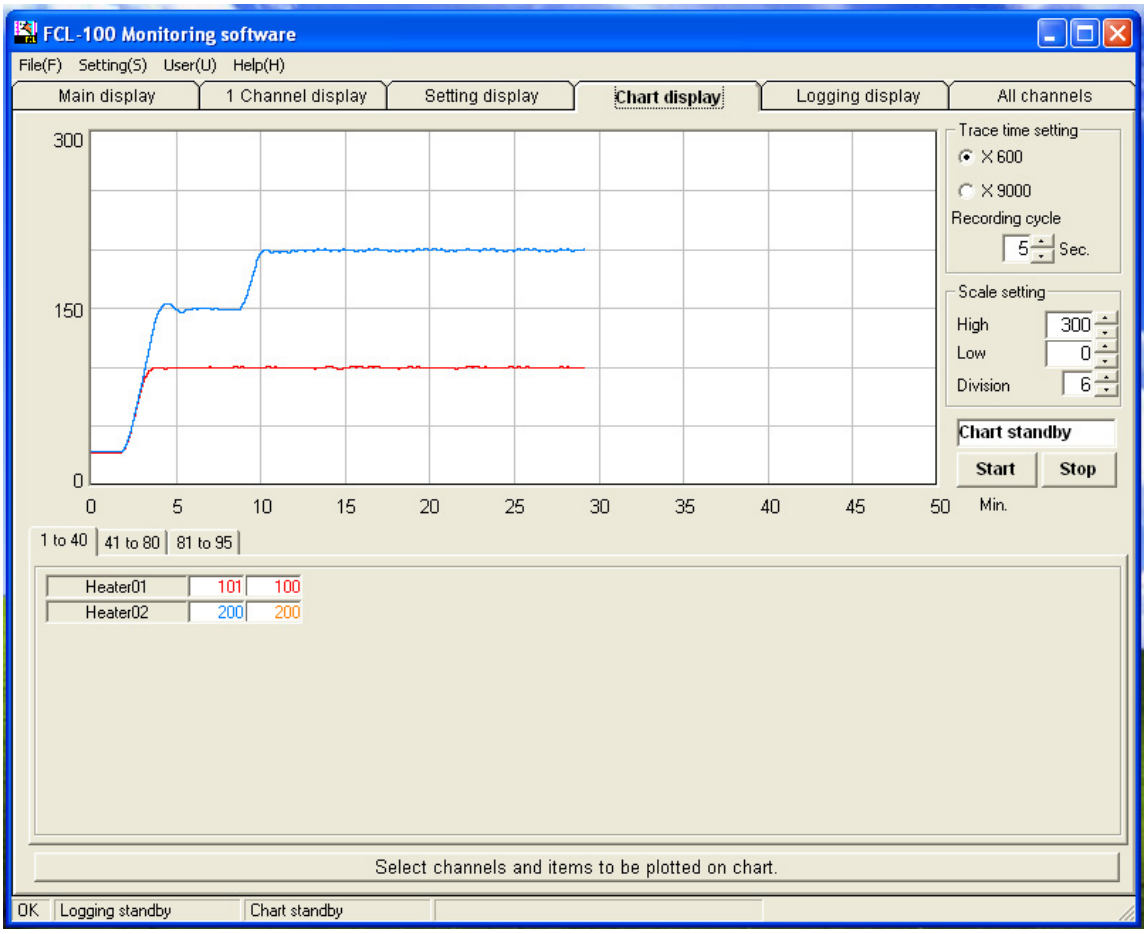
Operation explanation

[1 to 40] tab : Sets chart plot condition for the instrument numbered 0 to 39.
[41 to 80] tab : Sets chart plot condition for the instrument numbered 40 to 79.
[81 to 95] tab : Sets chart plot condition for the instrument numbered 80 to 94.
[Chxx] button : Select a channel for plotting PV and SV.
[Select a channel number for changing the recording color, then click this button] button:
If this button is clicked, the Color display appears.
[Selection completed] button:
If this button is clicked, the chart plot condition setting is completed,
and the display reverts to the Chart display.

Color display

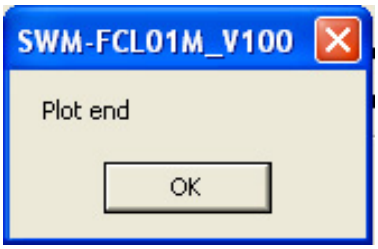
[Define Custom Colors]: User's own color can be created and added by clicking this button.
[OK] : Clicking this button sets the color and closes the display.
[Cancel] : This button closes the display without setting colors.

Chart plotting display



(Fig. 2.3.1-7)

The following window will appear after chart plotting ends.
Click [OK]. The mode reverts to the Chart standby.

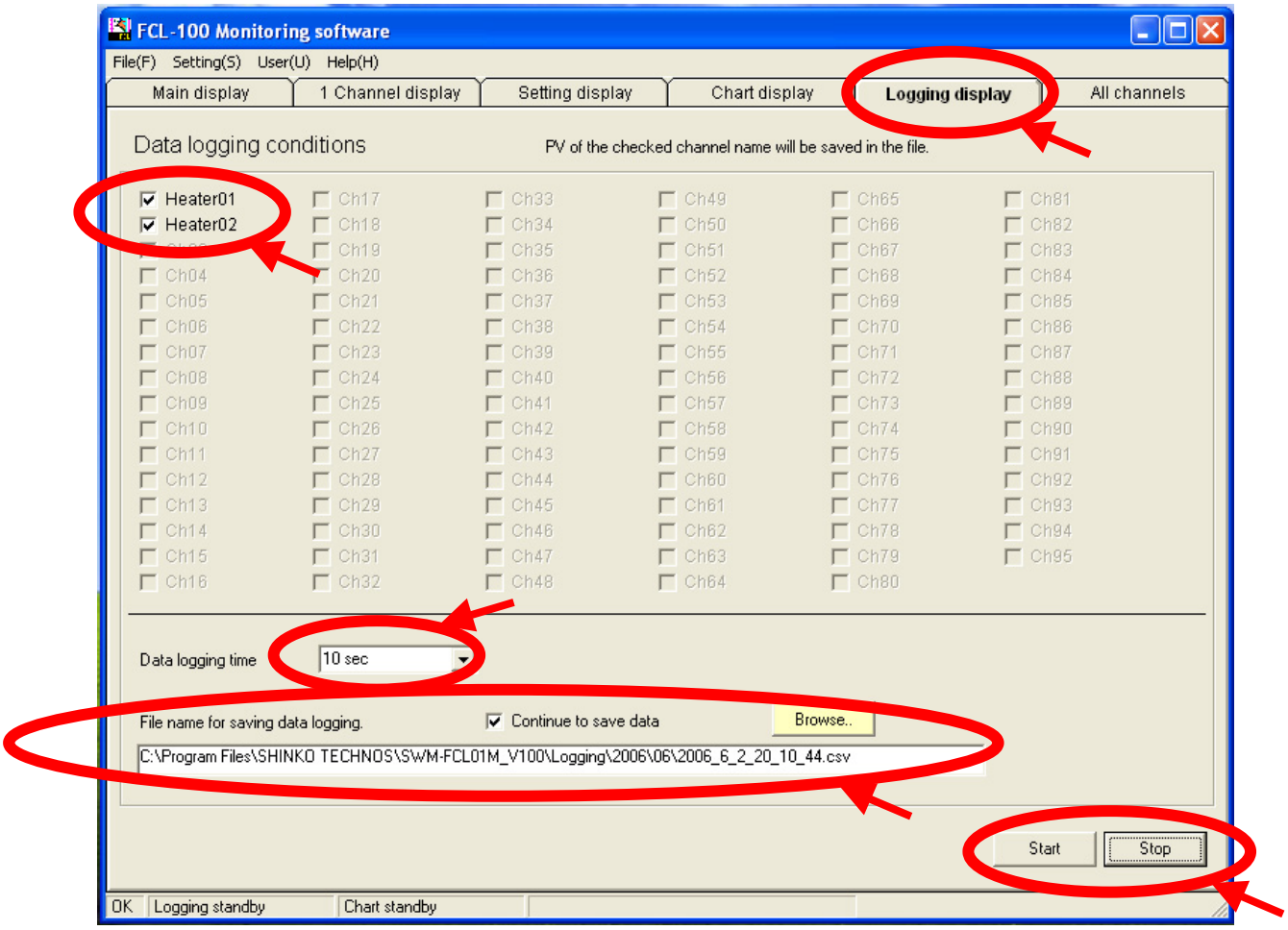


(Fig. 2.3.1-8)

(6) Logging display

Data logging conditions can be set.
Unless data logging conditions are set, logging cannot start.
Enter a file name by clicking [Browse].

If [Continue to save data] is checked, a new file is named by date and time (year, month, date, hour, minute, second.csv) when data logging starts, and data is saved in the “Logging/Year/Month” file in the Installation folder.
By clicking the [Start] button, PV of the selected channel is saved in the file every logging cycle.
Saved data can be edited on spreadsheet applications like Microsoft EXCEL.



(Fig. 2.3.1-9)

[Ch01 to Ch95] : Select a channel by checking the box ☑.
[Data logging time]: Select data logging cycle by clicking the ▼ button.
☐ [Continue to save data]:
If data logging starts by checking the box ☑ , data is continuously saved in the same file as the previous session.

If data logging starts without checking the box ☐, a new file is named, and data is saved in the new file.

[Browse] button : To change the file name, click this button.
Dialog box [Open] will be opened. Select a file and click [Open] button.

[Start] button : Data logging starts by clicking this button.

[Stop] button : Data logging stops by clicking this button.

Logging auto-start when starting the monitoring software

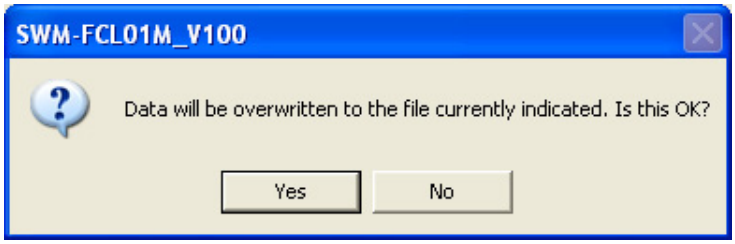
If the monitoring software is closed during data logging, logging starts automatically when the software starts.
However, saving method in file is different depending on whether [Continue to save data] is checked or not.

When [Continue to save data] is checked

The same file name used during the previous session is designated, and the data is saved in the same file continuously.

When [Continue to save data] is not checked

The following display to confirm that the file will be overwritten will appear.



(Fig. 2.3.1-10)

If [Yes] is clicked, the same file as in the previous session will be overwritten with the new logging data.

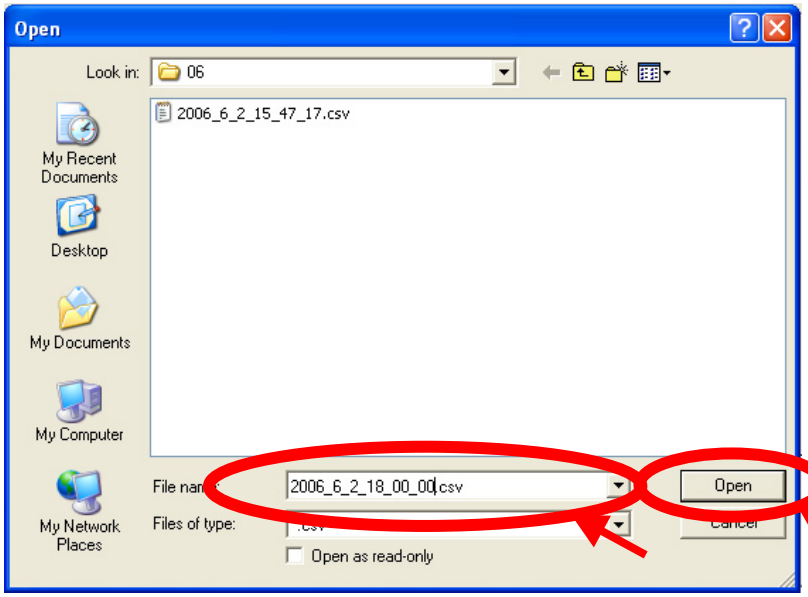
> **Notice**
>
> **Designate a new file if you don't want to clear the data.**

If [No] is clicked, the following display appears.



(Fig. 2.3.1-11)

If [OK] is clicked, the following display appears.



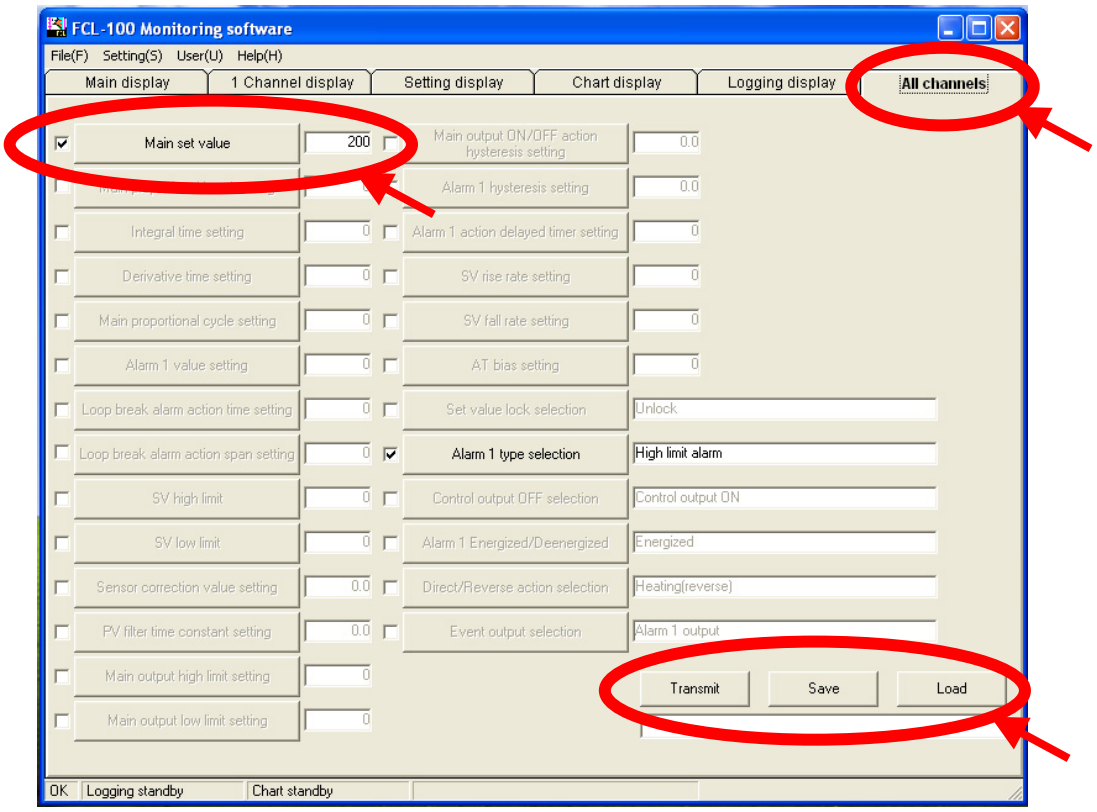
(Fig. 2.3.1-12)

Enter a new file name, and Click [Open].
The data will be saved in the new file.

(7) All channels display

Data to transmit to all connected FCL-100 units can be set.

Set values on the screen can be saved in a file or loaded (read) from a file.

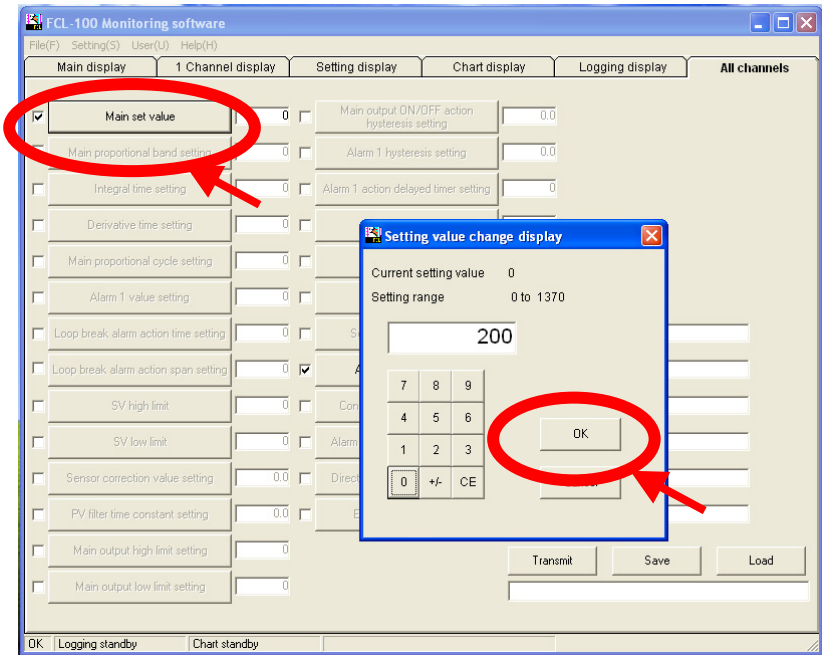


(Fig. 2.3.1-13)

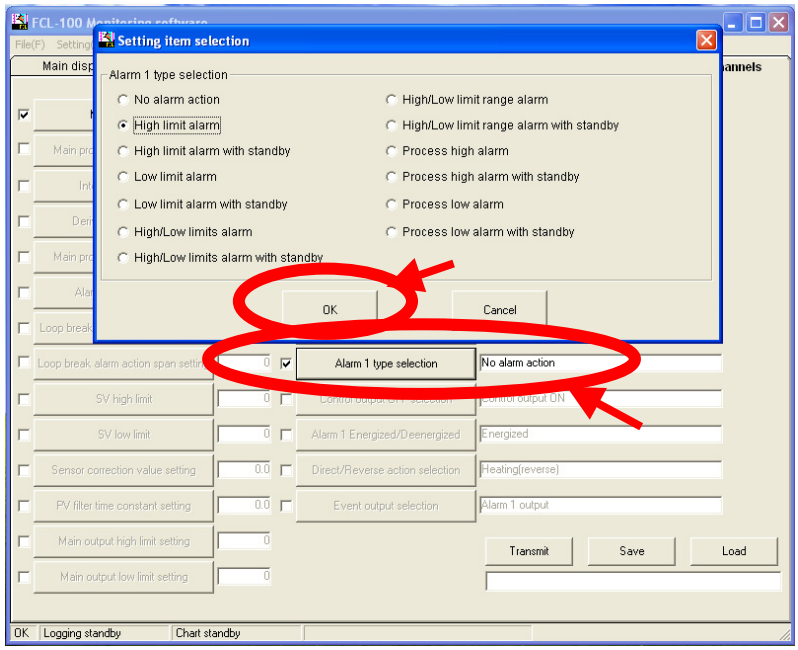
Operation explanation

☐ Each setting/selection item : Check the box ☑ to select the item for transmission.
By checking the box, each setting/selection item will take effect, and the value can be set or selected.

Each setting/selection button : By clicking this button, onscreen numerical keyboard or selection screen appears.
Enter a value or make a selection, and click [OK].

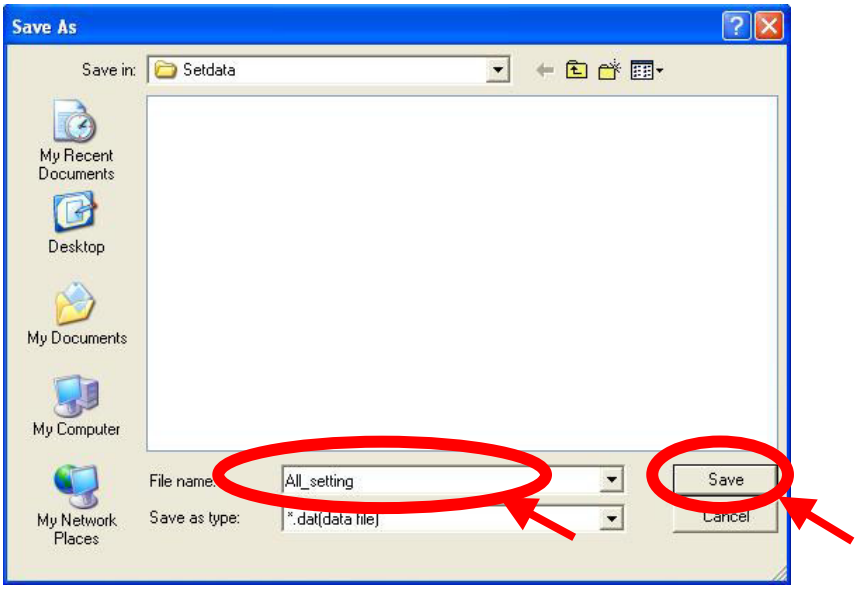


(Fig. 2.3.1-14) (e.g.) SV setting



(Fig. 2.3.1-15) (e.g.) Alarm 1 type selection

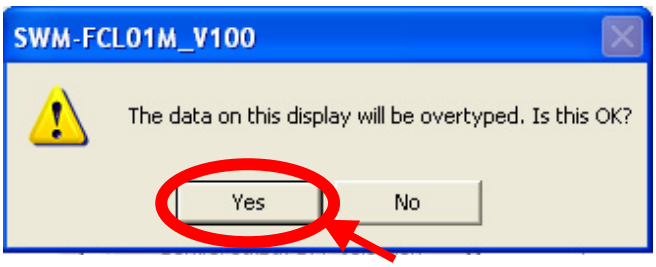
[Save] button : Clicking this button on (Fig. 2.3.1-13) opens the dialog box “Save As”.



(Fig. 2.3.1-16)

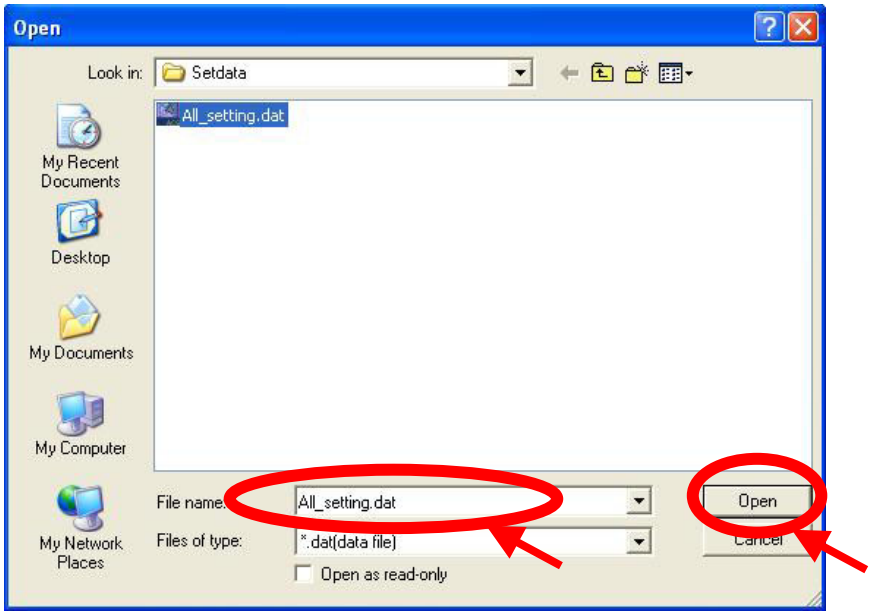
Enter a file name and click [Save] button.
The data on the screen will be saved in a file of the “Setdata” folder in the installation folder.

[Load] button : If this button on (Fig. 2.3.1-13) is clicked, the following window will appear.



(Fig. 2.3.1-17)

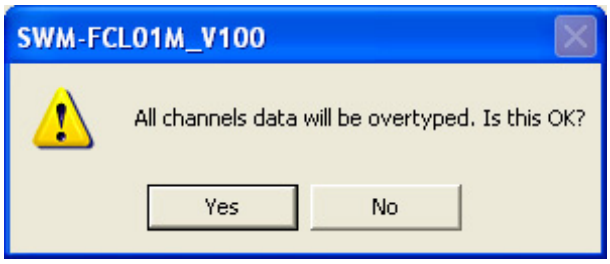
Clicking the [Yes] button opens the dialog box “Open” (Fig. 2.3.1-18).
Clicking the [No] button closes the above display.



(Fig. 2.3.1-18)

Select a file and click [Open].
The data is read from the file, and the screen indication is updated.

[Transmit] button : If this button on (Fig. 2.3.1-13) is clicked, the following display appears.



(Fig. 2.3.1-19)

If [Yes] is clicked, all checked items are transmitted to all connected FCL-100 units.
Unchecked items are not transmitted.
Clicking [No] stops transmission.
Even if the items are checked, they are not transmitted to the units which are performing AT (auto-tuning), and the following display appears.



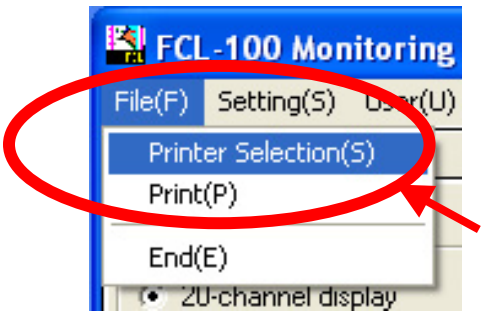
(Fig. 2.3.1-20)

2.3.2 Menu bar operation

(1) Printer selection

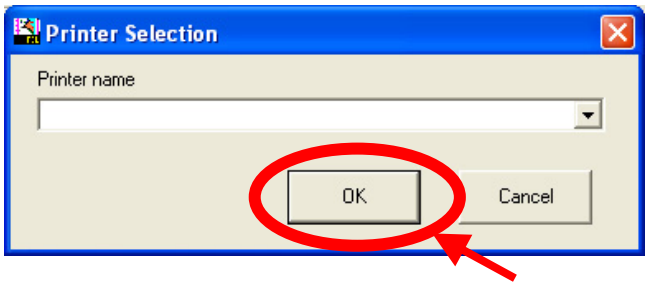
The printer can be selected.

① Select [File(F)] on the menu bar – [Printer Selection(S)], and click.



(Fig. 2.3.2-1)

② Printer selection display appears.
Select a printer and click [OK].

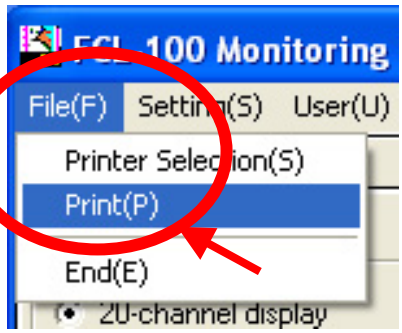


(Fig. 2.3.2-2)

(2) Printing

The monitoring software display can be printed.

① Select [File(F)] on the menu bar – [Print(P)], and click.



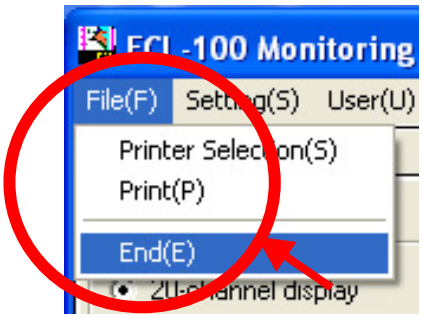
(Fig. 2.3.2-3)

② The software display can be printed.

(3) Terminating the SWM-FCL01M

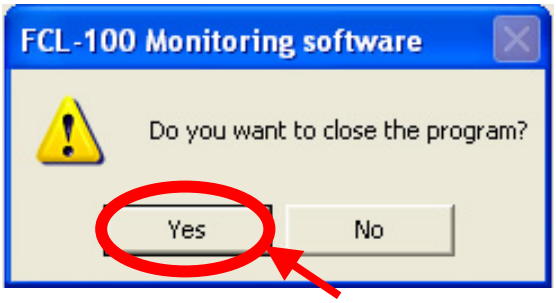
Terminate the monitoring software as follows.

① Select [File(F)] on the menu bar – [End(E)], and click.



(Fig. 2.3.2-4)

② Termination confirming screen appears.
Clicking [Yes] terminates the screen, and clicking [No] cancels termination.

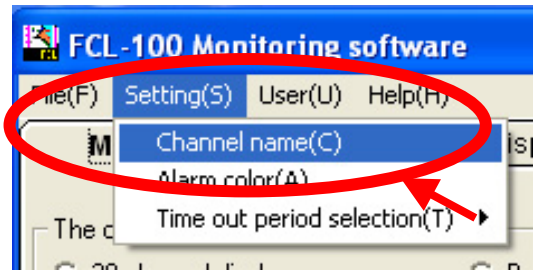


(Fig. 2.3.2-5)

(4) Channel name registration

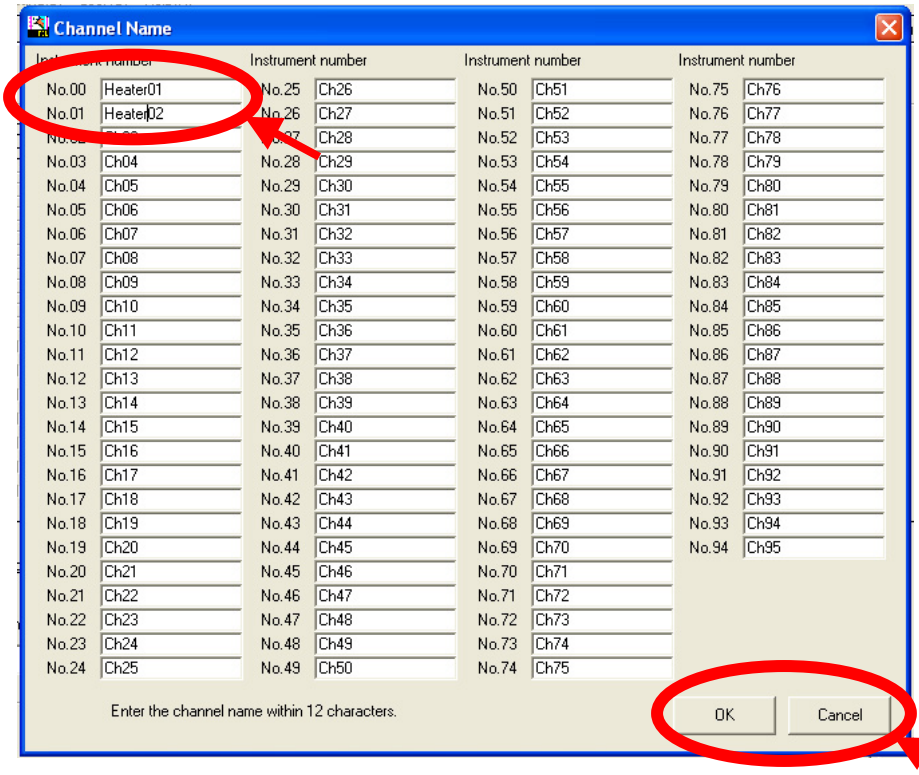
Channel name indicated on the screen can be registered as follows.
The registered channel name is indicated on the screen and in the selection list.

① Select [Setting(S)] on the menu bar – [Channel name(C)] and click.



(Fig. 2.3.2-6)

② Channel name registration display appears.
Enter a channel name and click [OK].
Up to 12 characters are available for the name.



(Fig. 2.3.2-7)

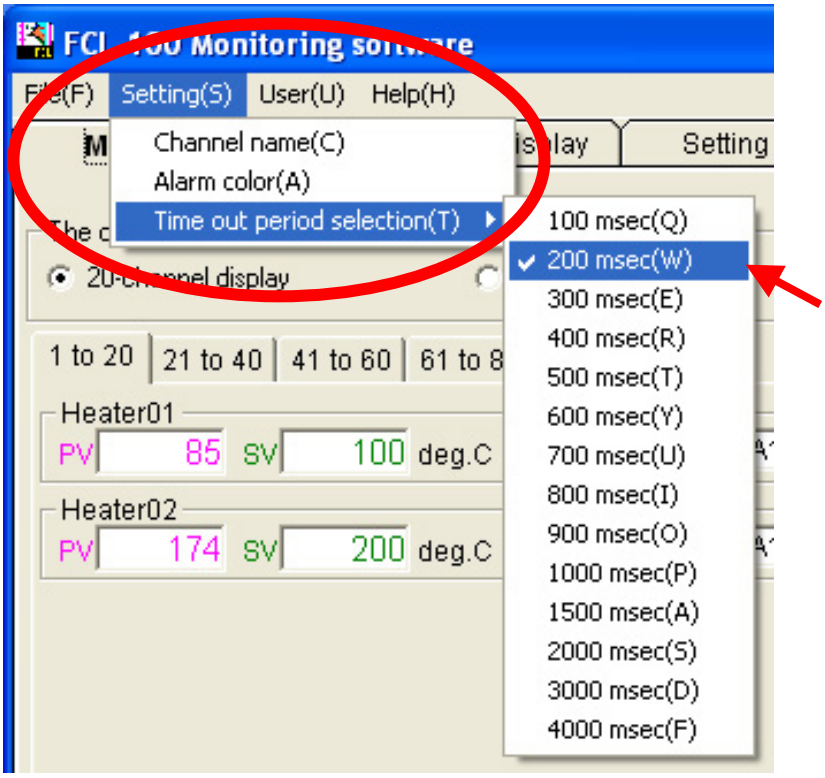
③ The following display for confirmation of registering channel name will appear.
Click [OK].



(Fig. 2.3.2-8)

(5) Timeout period selection

Selects timeout period of the monitoring software.
In case the FCL-100 does not respond after receiving commands from this software, the maximum waiting time of response is the Timeout period.
Default value: 200msec
Select [Setting(S)] on the menu bar – [Timeout period selection(T)] – [Desired period], and click.

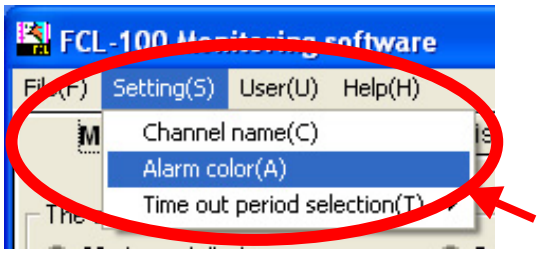


(Fig. 2.3.2-9)

(6) Alarm color setting

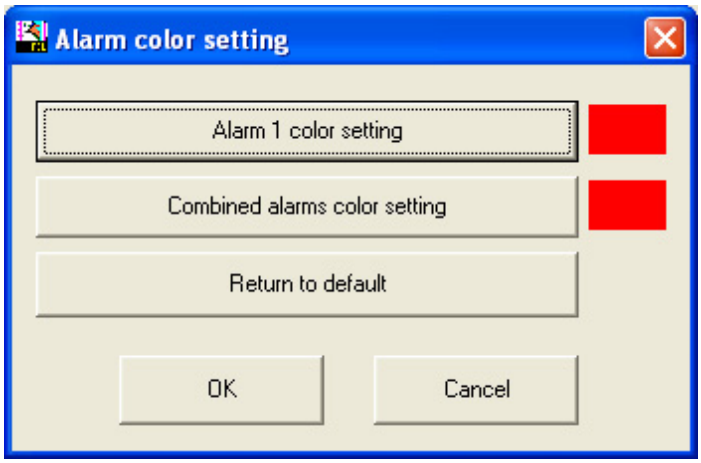
The color for Alarm 1 and Combined alarms (2 alarms or more are activated simultaneously) can be set.
Default value for all alarm colors is red.

① Select [Setting(S)] on the menu bar – [Alarm color(A)], and click.



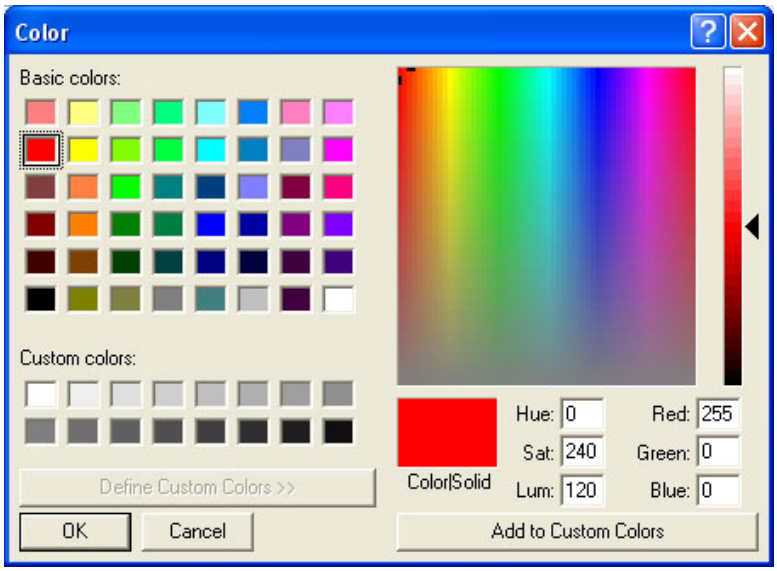
(Fig. 2.3.2-10)

② Alarm color setting display appears.
Click the button to be changed.



(Fig. 2.3.2-11)

③ "Color" screen will appear.
Set a color, and click [OK].



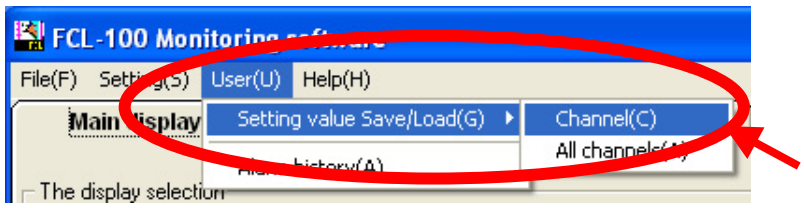
(Fig. 2.3.2-12)

④ The display will revert to the Alarm color setting screen. (Fig. 2.3.2-11)
By clicking [OK] on the Color display, the alarm color on the monitoring software will turn to the set color.
Clicking the [Cancel] button cancels the color setting.
Combined alarms (2 alarms or more are activated simultaneously) color setting is only effective on the display of (Fig. 2.3.1-2) (Page 19).

(7) Set value Save/Load per channel

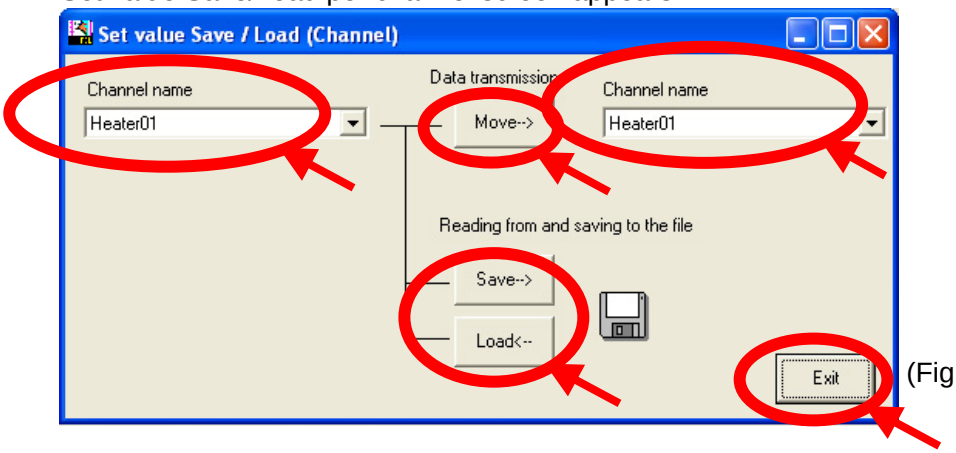
The set values on the display can be saved in a file or loaded from files per channel.
Data transmission between channels can be carried out.

① Select [User(U)] on the menu bar – [Set value Save/Load(G)] – [Channel(C)], and click.



(Fig. 2.3.2-13)

② Set value Save/Load per channel screen appears.



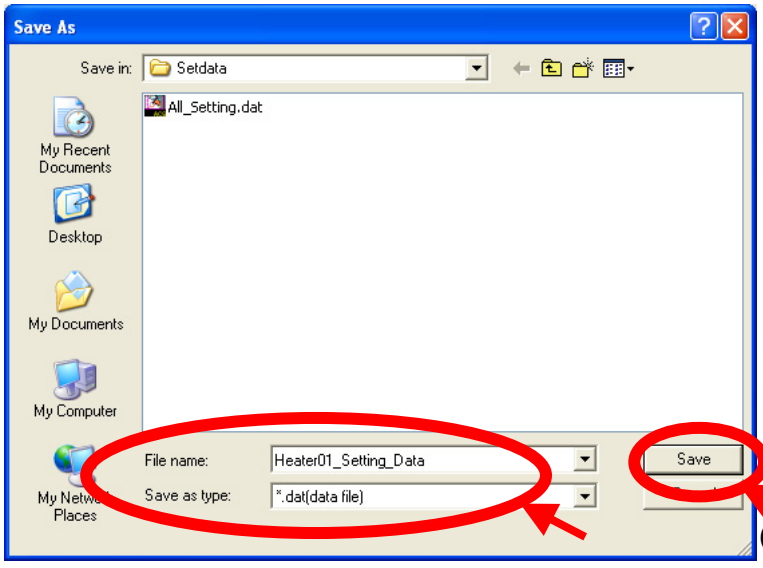
(Fig. 2.3.2-14)

Operation explanation

Channel name : Select a channel name to save or to load.
To transmit data, select the channel name for transmission destination as well.

[Move-->] button : By clicking this button, the set value is transmitted from the channel origin to the channel destination.

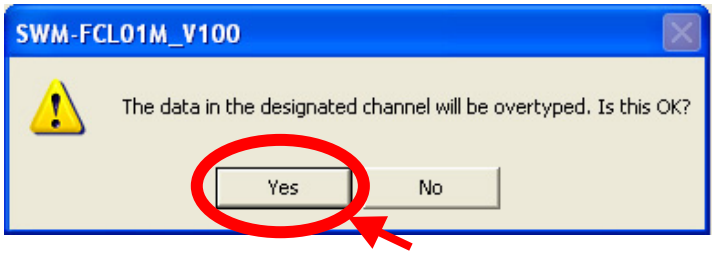
[Save-->] button : Clicking this button opens the dialog box “Save As”.



(Fig. 2.3.2-15)

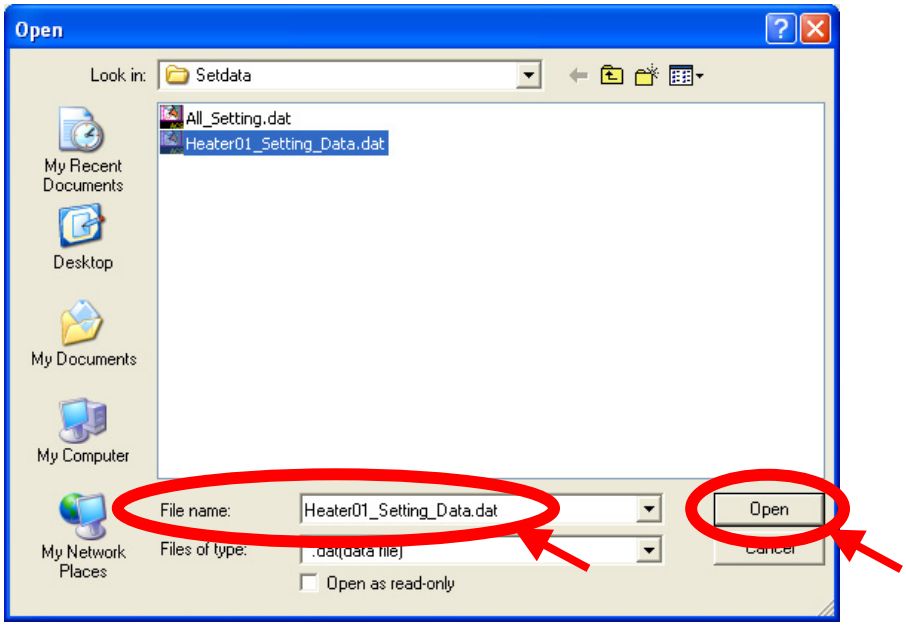
Enter a file name and click [Save].
The set values of the selected channel is saved in a file of the “Setdata” folder in the installation folder.

[Load<--] button : If this button is clicked, the following window appears.



(Fig. 2.3.2-16)

Clicking [Yes] opens the dialogue box “Open”.
Clicking [No] closes the above screen.



(Fig. 2.3.2-17)

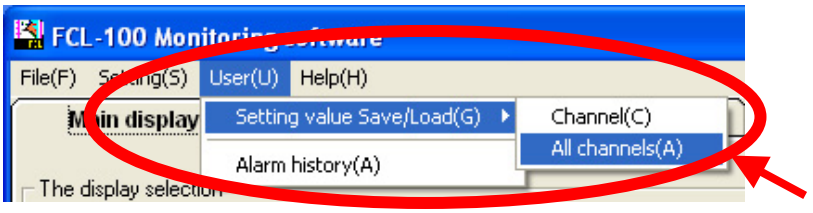
Select a file and click [Open].
The data is loaded (read) from the file and the set values of the selected channel are updated.

[Exit] button : Clicking this button on (Fig.2.3.2-14) closes the display of Set value Save/Load per channel.

(8) Set value Save/Load for all channels

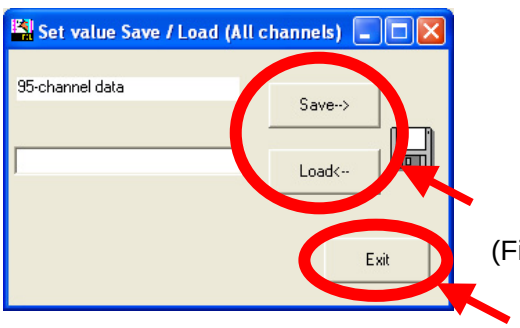
The set values of all channels can be saved in a file and loaded (read) from a file.

① Select [User(U)] on the menu bar – [Set value Save/Load(G)] – [All channels(A)], and click.



(Fig. 2.3.2-18)

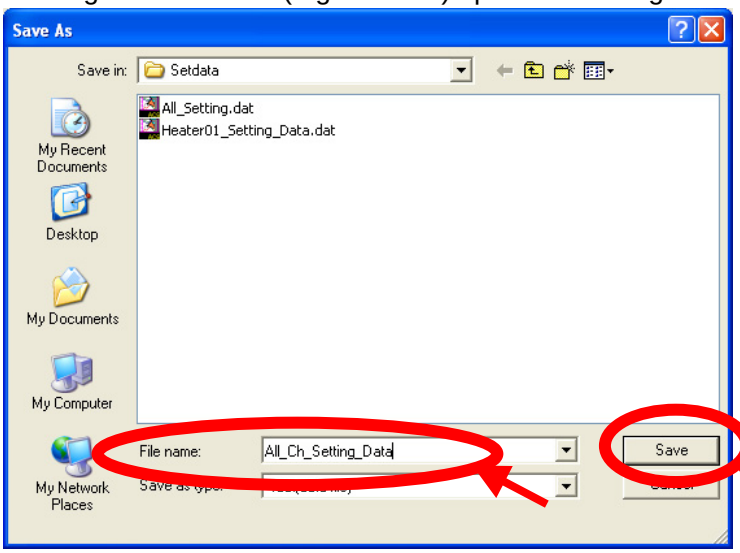
② Set value Save/Load for all channels screen appears.



(Fig. 2.3.2-19)

Operation explanation

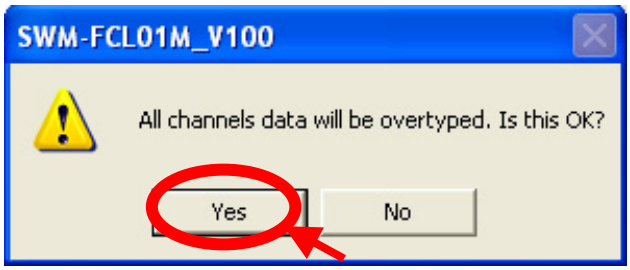
[Save-->] button : Clicking this button on (Fig.2.3.2-19) opens the dialog box “Save As”.



(Fig. 2.3.2-20)

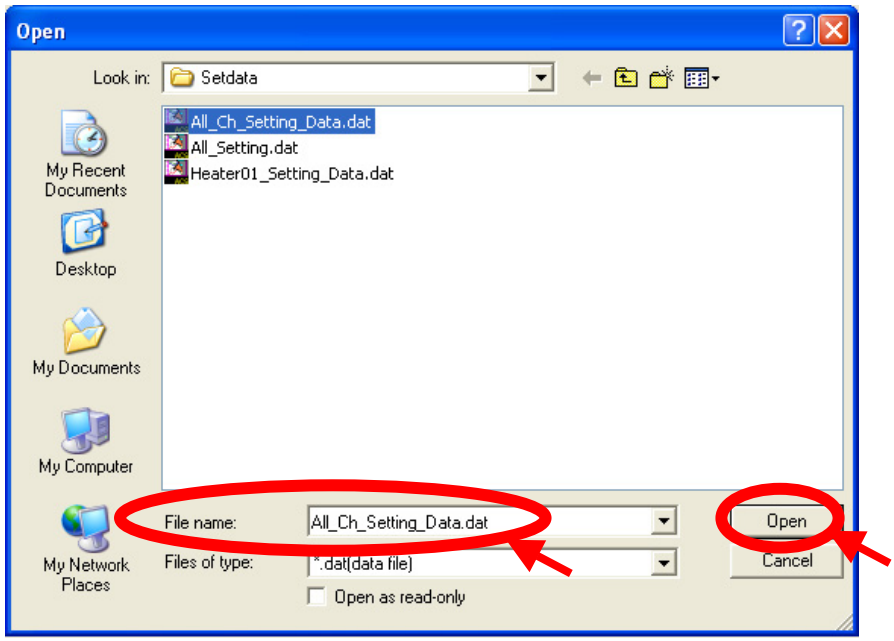
Enter a file name, and click [Save].
The set values of all channels are saved in the file of “Setdata” folder in the installation folder.

[Load<--] button : If this button on (Fig.2.3.2-19) is clicked, the following window appears.



(Fig. 2.3.2-21)

Clicking [Yes] opens a dialogue box “Open”.
Clicking [No] closes the above screen.



(Fig. 2.3.2-22)

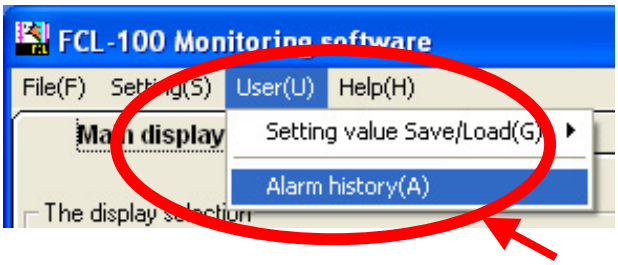
Select a file, and click [Open].
The data is loaded (read) from the file and the values of all channels are updated.

[Exit] button : Clicking this button on (Fig.2.3.2-19) closes Set value Save/Load for all channels screen.

(9) Alarm history display

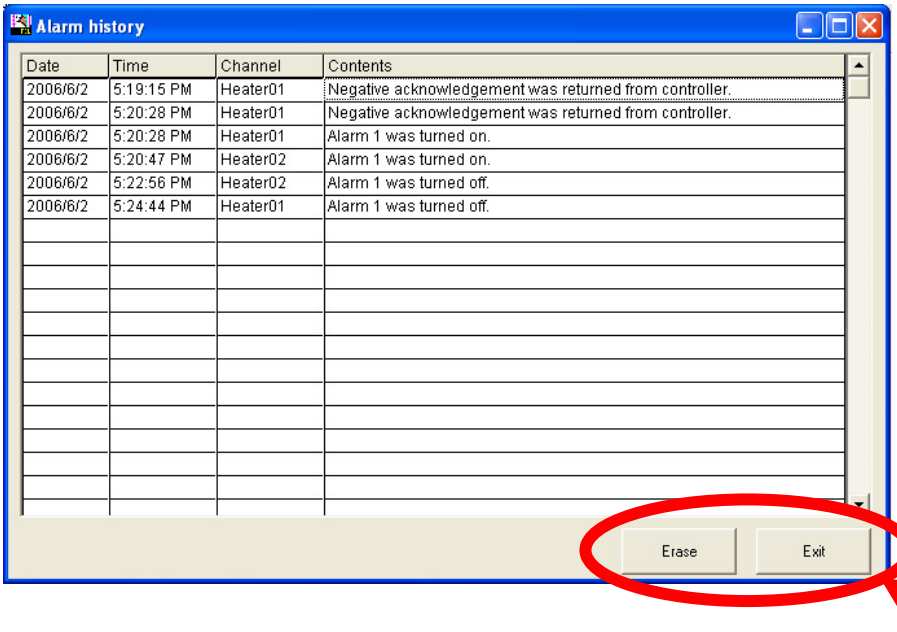
During monitoring, if Alarm 1, Loop break alarm, Sensor burnout alarm, overscale or underscale has occurred or if they have been restored, the channel name, date and time are indicated.
These are saved in the history folder with “txt” extension (His_Year_Month_Day_Hour_Minute.txt).
The file is automatically named by date and time when the monitoring software starts.

① Select [User(U)] on the menu bar – [Alarm history(A)], and click.



(Fig. 2.3.2-23)

② Alarm history display appears.



(Fig. 2.3.2-24)

Operation explanation

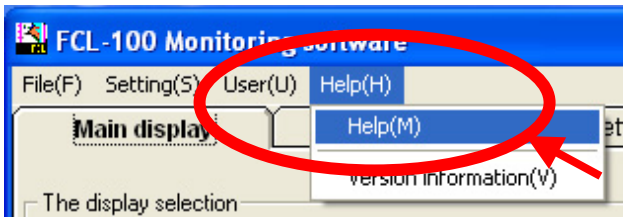
[Erase] button : Clicking this button clears the history data on the screen.
[Exit] button : Clicking this button closes the Alarm history display.

Selecting [File (F)] on the menu bar – [Print] prints the Alarm history display.

(10) Help display

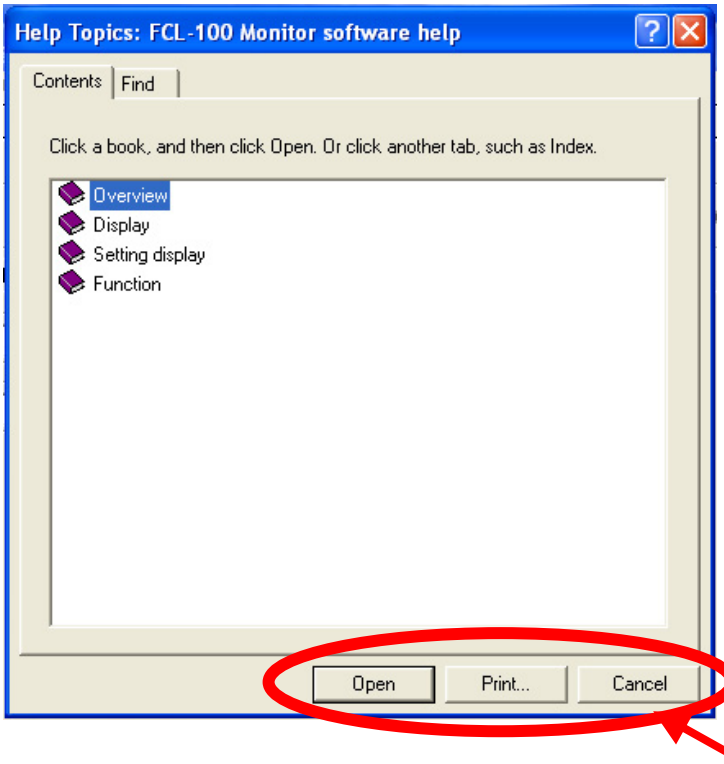
Each screen and operation method are explained.

① Select [Help(H)] on the menu bar – [Help(M)], and click.



(Fig. 2.3.2-25)

② Help display appears.



(Fig. 2.3.2-26)

Operation explanation

[Open] button : Clicking this button opens the selected Help contents.
If the closed book icon is selected, the book is opened.
If the opened book icon is selected, the book is closed.

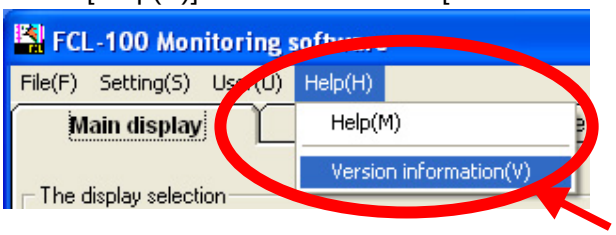
[Print...] button : Clicking this button prints the selected Help contents.
If the book icon is selected, all contents in the book are printed.

[Cancel] button: Clicking this button closes the Help display.

(11) Version information display

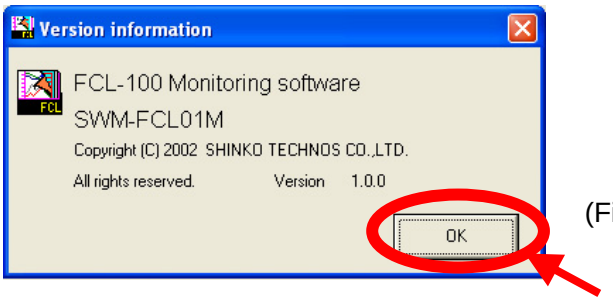
Version information on the monitoring software is described.

① Select [Help(H)] on the menu bar – [Version information(V)], and click.



(Fig. 2.3.2-27)

② Version information display appears.



(Fig. 2.3.2-28)

Operation explanation

[OK] button: Clicking this button closes Version information display.

******* Inquiry *******

For any inquiries about this software, please contact the shop where you purchased the software or our agency. Please let us know the details of malfunction, if any, and the operating conditions.

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No.SWMFCL11E1 2006.06