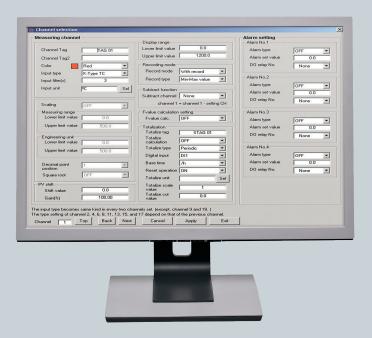
# Display Recorder

# Parameter Loader for SITRANS R200/R230/R260

Instruction Manual · October 2010



**SITRANS** 

**SIEMENS** 

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Lesen Sie unbedingt die Datei Readme.text auf der CD-ROM.

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# 1 OUTLINE

### 2.1 Foreword

This instruction manual describes installation and operation for the parameter loader of the display recorder. Read it carefully before use.

# 2.2 Parameter loader for display recorder

Connect the parameter loader (hereafter referred to as loader) to the display recorder using commercially available USB cable or LAN cable, and referencing (uploading), editing, and setting (downloading) of each parameter of the display recorder can be made. Connect USB miniB type male connector to the display recorder.

Note: When program version of PHL (SITRANS R230) is V07L to V10L, available dedicated cable (optional) is required to use the loader.

# 2.3 Contents of package

The following items are packaged with the product.

- CD-ROM for installation: 1
- Instruction manual which is installed to above CD-ROM

# 2.4 Recommended operating environment

- Microsoft Windows 2000 or XP.
- · Hard disk with a free capacity of 30 MB or more
- RAM with 64 MB or more
- USB port
- USB cable (USB miniB)
- LAN port (when provided with Ethernet option)
- LAN cable (when provided with Ethernet option)

Note: 1) Operation by the self-made AT compatible machine and the remodeling machine is not secured.

Trouble might be caused in operation in a part of AT compatible machine or OS.

- 2) Operation by Windows 95/98/Me/NT is not secured.
- 3) When program version of PHL (SITRANS R230) is V07L to V10L, the hardware requirements of the loader are as follows.
  - RS-232C serial port (D-sub 9 pin)
  - Communication cable dedicated to parameter loader

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Recorder side

USB port

PC side

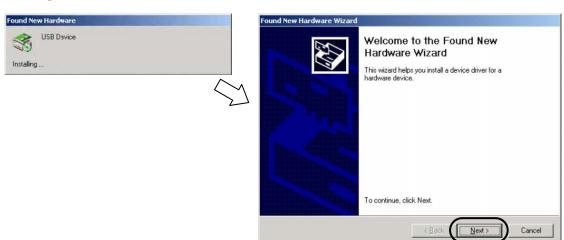
# 2.5 Installing the parameter loader for display recorder

- 1) If other application software programs are open, terminate all of them.
- 2) If the programming loader has been already installed, open "Add/Remove Programs" on Control Panel and delete the parameter loader.
- 3) Set CD-ROM in the personal computer drive.
- 4) Execute "top\_page.html" saved at root folder in the CD-ROM
- 5) Follow the prompts displayed on the screen.
- 6) Please install the main body of the parameter loader. A message is displayed, prompting you to verify that "Parameter loader setup is complete". Now, the Parameter Loader installation is completed.

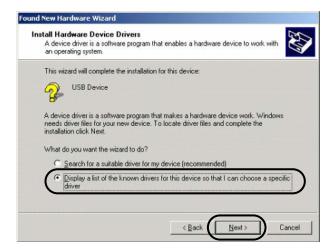
# 2.6 Installing USB communication driver

The driver can be installed on Windows XP as follows for example.

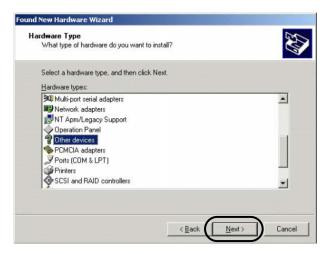
- 1) Connect the USB port of the display recorder whose power has been turned on and a running PC with a USB cable.
- 2) The message "Found New Hardware" and then the driver installation wizard appear on the computer. Click the [Next] button.



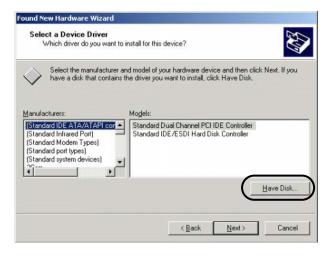
3) When the dialog box below is displayed, select [Display a list of the known drivers for this device so that I can choose a specific driver] and click the [Next] button.



4) The dialog box below is displayed. Select [Other Devices] and click the [Next] button.



5) The dialog box below is displayed. Click [Have Disk].



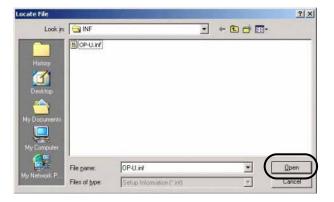
3

6) The [Install From Disk] dialog box is displayed. Click the [Browse] button.



7) The USB driver "OP-U.inf" is automatically stored in the "inf" folder within the install folder ("ParameterLoader" for example) of the parameter loader.

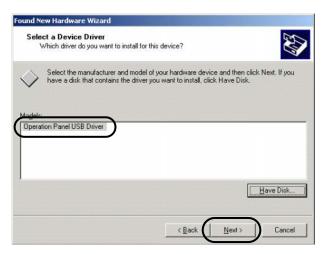
Select the "OP-U.inf" file and then click "Open."



8) The previous dialog box is displayed again. Check the path shown under [Copy Manufacturer's Files From:] and click the [OK] button.



9) The dialog box below is displayed. Check that [Operation Panel USB Driver] is shown under [Models:]. Click the [Next] button.



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10) The driver installation starts.

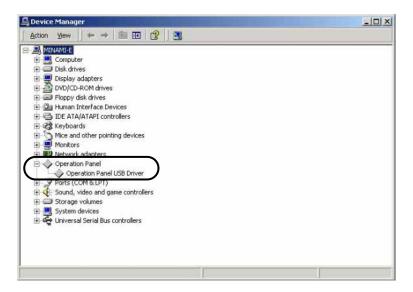


11) The dialog box below is displayed on completion of installation. Click the [Finish] button.



#### Recognition of USB Driver

When the driver has been installed successfully and the display recorder and the computer are connected with a USB cable, the [Device Manager] window shows "Operation Panel - Operation Panel USB Driver."



This will disappear when the display recorder and the computer are disconnected.

If [Other Device] or [?] is shown even while their connection via USB is maintained, the USB driver may not be recognized. If this happens, uninstall the USB driver once and reinstall it.

# 2.7 Uninstalling the parameter loader software for paperless recorder

Follow Windows operation.

In case of installation of new loader software, you should delete current loader software which you use before installation of new loader software.

#### 2.8 Cautions

When operating the Loader, be careful of the following items:

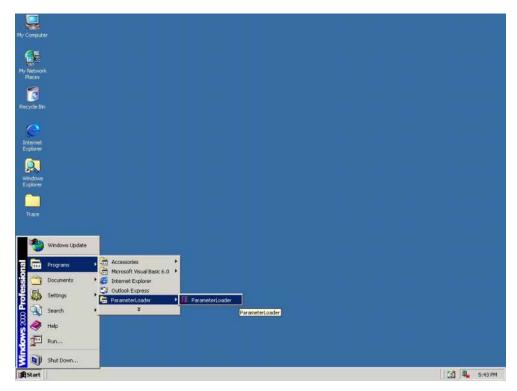
- Before starting the display recorder, be sure to assure that the Loader setting is reflected to the display recorder.
- For the communication setting for the display recorder ("Main Unit Set" → "System Setting"),
  the MODBUS communication function should be set to ON. After the MODBUS
  communication function has been switched from OFF to ON, turn OFF the power once, and
  then turn it ON.
- The Loader cannot use more than 1 window at the same time.

  If more than 1 window is open, leave only a single window open and close all of other windows (this can be checked on the Window menu).
- The Loader is used for the display recorder only.
- Initial values on each Loader screen may be different from those of the display recorder main unit.
- Whenever you want to write the setting data on parameter loader into display recorder, please
  return the display of display recorder to Display Mode such as Real Time Trend Screen. Don't
  display Parameter Setting Screen, or this loader software may miss to write into the display
  recorder.
- At this loader, some parameters which do not exist on display recorder may be displayed. But the parameter which doesn't exist in the display recorder isn't written.
- During display recorder is recording or totalizing, it is impossible to write into display recorder from this parameter loader.

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## 2.1 Start

Click "Programs"  $\Rightarrow$  "Parameter Loader"  $\Rightarrow$  "Parameter Loader" from the Start menu.



It is displayed such as following screen.

Note: Whenever, this screen is for 18th inputs. It doesn't depend on the input points.

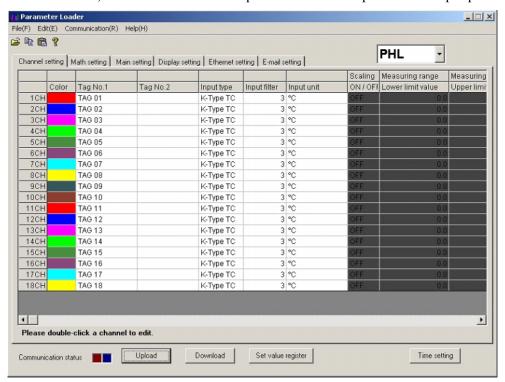
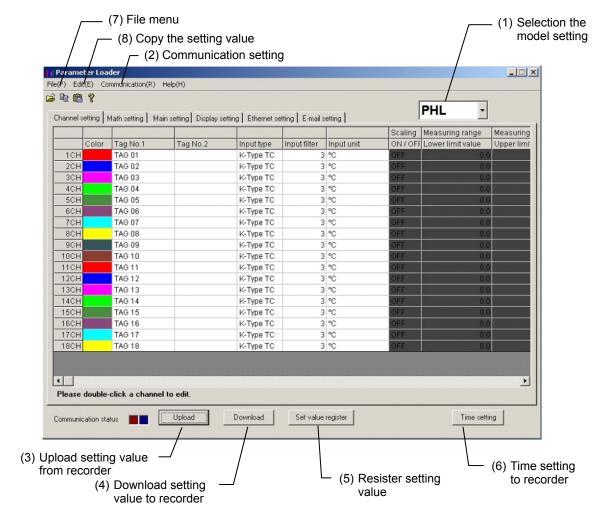


Table of setting channel display

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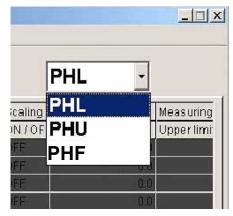
# 2.2 Table of setting channel display

The following is the screen when PHL (SITRANS R230) is selected.



(1) Selection the model setting

Model to be set by parameter loader can be selected.



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Display contents and setting range of each model are as tabled below.

	PHL	PHU	PHF
Model	(SITRANS	(SITRANS	(SITRANS
	R230)	R260)	R200)
Channel setting	18 channels	36 channels	6 channels
Chamier setting	(ch 1 to 18)	(ch 1 to 36)	(ch 1 to 6)
Math channel setting	12 channels	36 channels	0 channels
Wath Chamier Setting	(ch 19 to 30)	(ch 37 to 72)	(None)
DI setting	10	16	5
DO setting	28	38	10
Display group setting	4 groups	8 groups	1 group
Channel color setting	Provided	Provided	Not provided
Bar graph / analog meter selection	Provided	Provided	Not provided
Message setting	Provided	Provided	Not provided
Totalize setting	Provided	Provided	Not provided
F value calculation setting	Provided	Provided	Not provided
Modbus communication setting	Provided	Provided	Not provided

#### (2) Communication setting

The setting on the communication with the display recorder can be made.

#### a) Communication

The communication method with the display recorder can be selected from USB, Ethernet, and RS-232C.

#### Note:

- 1) USB or Ethernet communications cannot be conducted if the program version of PHL (SITRANS R230) is V07L to V10L.
- RS-232C communications cannot be conducted if the program version of PHL (SITRANS R230) is V16L or later. Note that to conduct Ethernet communications, optional Ethernet communication board is necessary.



#### b) IP Address

Setting is necessary to conduct Ethernet communications with the display recorder.

IP Address and Station No. of the display recorder can be set.



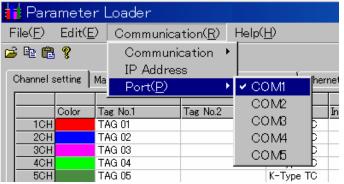
#### c) Port

Setting is necessary to conduct RS-232C communications with the display recorder.

The communication port of the PC used to communicate with the display recorder can be set.

This function can change communication port of PC which communicates with display recorder. At starting of this loader, COM1 is selected as communication port. Set the port number that you want to use at first.

At the executing screen, click [Com(R)] — [Port(P)] and select using port. Normally, COM1 is selected.



(3) Upload setting value from display recorder

It is available to upload all the setting such as channel setting, math channel setting, main setting, display setting and so on from display recorder.

(4) Download setting value to display recorder

It is available to download all the setting such as channel setting, math channel setting, main setting, display setting and so on to display recorder.

Note: 1) Download prohibit during recording or totalizing.

- 2) Be careful that if you don't register set value, your setting isn't registered, so when you turn off and on the display recorder, setting value returns before you change.
- (5) Resister setting value

It is available to register setting value to Flash ROM.

(6) Time setting to display recorder

It is available to change time setting of display recorder. Press [Time setting] button, and screen as shown below appears. Set the time that you want to change. And then press [Change] button.

Note: 1) This setting prohibit during recording or totalizing.

2) This setting is not necessary to register set value.

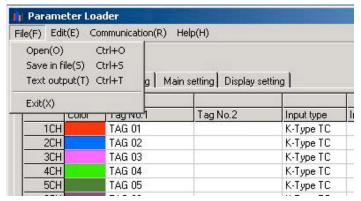


Screen of time setting

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#### (7) File menu

This menu, you can use functions as shown below.



#### a) Open

Display recorder parameter setting files stored in your PC can be opened.

Parameter setting files stored in the display recorder can also be opened.

#### b) Save

Parameters currently being set can be stored in your PC.

Extension for parameter setting file to be created differs according to model setting.

When PHL (SITRANS R230) is selected: \*\*\*\*\*\*.PHL

When PHU (SITRANS R260) is selected: \*\*\*\*\*.PHU

When PHF (SITRANS R200) is selected: \*\*\*\*\*\*.PHF

Substitute \*\*\*\* with an arbitrary name. Select a file name consisting of alphanumeric characters with 7 uppercase characters or less when a parameter setting file is to be read from a compact flash card to the display recorder.

#### Example:

OK: PARA00.PHL, P123456.PHL NG: Para00.PHL, P1234567.PHL

#### c) Text output

Output setting value as text data..

Please refer to attached "Appendix. 1: Example of setting parameters to be printed out."

#### d) Exit

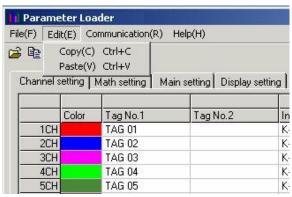
Exit this menu.

Note: 1) If you change setting value of recorder, press [Set value register] before exit this software, or your setting isn't registered, so when you turn off and on the recorder, setting value returns before you change.

2) If you want to use setting value on another day, it is recommended to save the setting value file of recorder before exit this software.

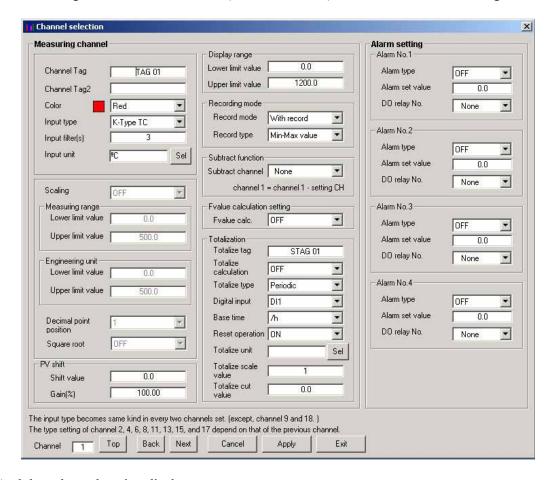
## (8) Copy the setting value

Copy the setting value such as channel setting, main setting, display setting and so on. Click in line of original data and press [Copy]. Click in line that you want to copy., and then press [Paste].



## 2.3 Setting channels

Set the parameter regarding to input, calculation, alarm, display and record of each channel. On "Table of setting channel display", double-click the channel you want to change. The following is the screen when PHL (SITRANS R230) is selected for model setting.



And then channel setting display appears.

- \* Items that can be set differ according to model setting.

  (The above is the screen when PHL (SITRANS R230) is selected for model setting.)
- \* Number of channels differs according to model setting.
  - It is available to set till 18ch whichever PHL (SITRANS R230) is 9 or 18 input points.
  - It is available to set till 36ch whichever PHU (SITRANS R260) is 9, 18, 27 or 36 input points.
  - It is available to set till 6ch whichever PHF (SITRANS R200) is 3 or 6 input points.
- \* There are some screen to be able to display up to 7 characters as channel tag in spite of setting is available up to 8 characters. So don't set 8 characters as channel tag.
- \* When you set out of the range, message as shown below appears.



Message in recording range

- \* Press [Apply] after changing channel setting, or your setting isn't registered, so when you turn off and on the recorder, setting value returns before you change.
- \* When setting model is PHF (SITRANS R200), channel color setting item is not displayed.
- \* Basically input type setting is the same for every two channels.
  - (1) When changing the input type of channel, setting may be limited by the input type of channel just before the selected channel.

#### When PHL (SITRANS R230) is selected:

When PHL (SITRANS R230) is selected, only the same input type as that of the channel just before the selected channel can be set for channels 2, 4, 6, 8, 11, 13, 15 and 17.

However, input type can be selected regardless of other channels for only channels 9 and 18.

#### When PHU (SITRANS R260) is selected:

When PHU (SITRANS R260) is selected, only the same input type as that of the channel just before the selected channel can be set for channels 2, 4, 6, 8, 11, 13, 15, 17, 20, 22, 24, 26, 29, 31, 33 and 35.

However, input type can be selected regardless of the other channels for only channels 9, 18, 27 and 36.

#### When PHF (SITRANS R200) is selected:

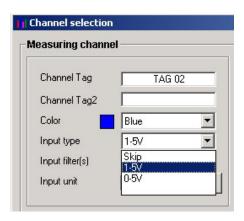
When PHF (SITRANS R200) is selected, only the same input type as that of the channel just before the selected channel can be set for channel 5.

Input type can be selected regardless of other channels for the channels other than channel 5.

#### Input type is shown as follows:

Input category	Input type
Thermocouple,	K-Type TC, E-Type TC, J-Type TC, T-Type TC, R-Type TC, S-Type TC,
50 mV	B-Type TC, N-Type TC, W-Type TC, L-Type TC, U-Type TC,
	PN-Type TC, 50 mV
RTD	Pt100 $\Omega$ , JPt100 $\Omega$ , Ni100 $\Omega$ , Pt50 $\Omega$ , Cu50 $\Omega$
500 mV	500 mV
5 V	1 to 5 V DC, 0 to 5 V DC

For example, when 1-5 V is selected as input type of channel 1 in PHL (SITRANS R230), only 1-5 V, 0-5 V or Skip can be selected as input type for channel 2 as follows.



Example: Setting input type of each channel

	Input type	Input group	Explanation				
Channel 1	K-Type TC	Thermocouple,	It is available to set any type of TC or				
Channel 2	T-Type TC	50 mV	50 mV.				
Channel 3	1 to 5 V	5 V					
Channel 4	0 to 5 V						
Channel 5	Pt100	RTD	It is available to set Pt100 $\Omega$ or JPt100 $\Omega$ .				
Channel 6	JPt100						
Channel 7	500 mV						
Channel 8	500 mV						
Channel 9	J-Type TC	Thermocouple, 50 mV	It is available to set any input type to channel 9.				
Channel 10	K-Type TC	Thermocouple,	It is available to set any type of TC or				
Channel 11	50 mV	50 mV	50mV.				
Channel 12	Skip	5 V	It is available to set skip under any input				
Channel 13	1 to 5 V		type.				
Channel 14	Pt100	RTD					
Channel 15	Skip						
Channel 16	Skip	500 mV					
Channel 17	500 mV						
Channel 18	50 mV	Thermocouple, 50 mV	It is available to set any input type to channel 18.				

(2) When input type of channel is changed, initialization of next channel may be required: When PHL (SITRANS R230) is selected:

If PHL (SITRANS R230) is selected, initialization of next channel input type may be required when changing the input type for channels 1, 3, 5, 7, 10, 12, 14 and 16.

#### When PHU (SITRANS R260) is selected:

If PHU (SITRANS R260) is selected, initialization of next channel input type may be required when changing the input type for channels 1, 3, 5, 7, 10, 12, 14, 16, 19, 21, 23, 25, 27, 30, 32 and 34.

#### When PHF (SITRANS R200) is selected:

If PHF (SITRANS R200) is selected, initialization of next channel input type may be required when changing the input type for channel 4.

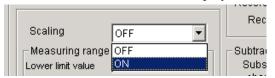
When initialization of next channel is required, push "Apply" button to display the next message screen.



At this screen, if you press [OK] button, the input type of next channel is initialized to the same input type of current displayed channel. In case of 50mV, the next channel becomes K-type TC.

In case of RTD, the next becomes Pt100 $\Omega$ .

\* When you set input unit, set ON the "Scaling" at first. And then press "SELECT" key. In case of Thermocouple or RTD input, it is available to select either Celsius or Fahrenheit. And the others unit are not displayed.





The Unit Select screen appears. On the screen that is displayed, click a unit and press the "Apply" button. Note that the unit cannot be selected without pressing the "Apply" button.



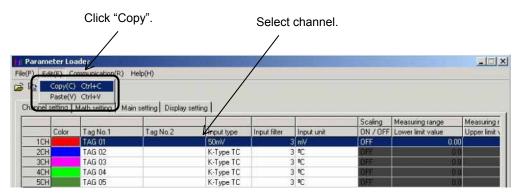
Example: At voltage input and scaling ON

## 2.3.1 Copying the channel set

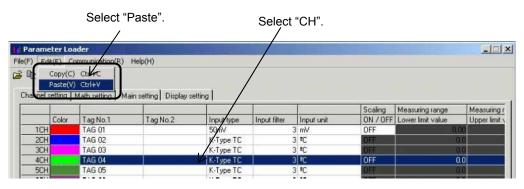
This screen allows you to copy one or more set values from one channel to another.

Move the cursor to CH on the Table of Setting Channel display, and click it (channel selection).

Click "Edit" ⇒ "Copy".



Move the cursor to CH where you want to paste channel settings and click it (Channel selection). Click "Edit" ⇒ "Paste".



Next, the following message appears, prompting you to select the option.

Click "OK" when you want to copy the channel setting.

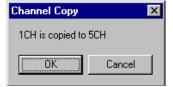
If the input type is different between current type and new one, display recorder works such as below.

- (1) Copying of channel setting in PHL (SITRANS R230)
  - 1) When copying is made to 1 to 8, and 10 to 17 channels in PHL (SITRANS R230): The same input type (\*2) is used for the pair channel (\*1).
    - (\*1: 1ch and 2ch, 3ch and 4ch, 5ch and 6ch, 7ch and 8ch, 10ch and 11ch, 12ch and 13ch, 14ch and 15ch, and 16ch and 17ch are the pair channels.)
  - 2) When copying is made to 9ch and 18ch: Channels other than 9ch and 18ch do not change.
- (2) Copying of channel setting in PHU (SITRANS R260)
  - 1) When copying is made to 1 to 8, 10 to 17, 19 to 26, and 28 to 35 channels: The same input type (\*2) is used for the pair channel (\*1).

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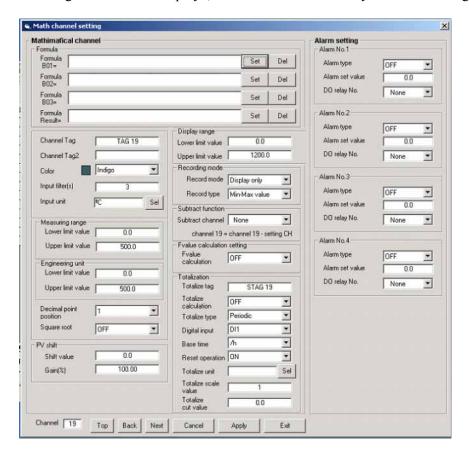
(\*1: 1ch and 2ch, 3ch and 4ch, 5ch and 6ch, 7ch and 8ch, 10ch and 11ch, 12ch and 13ch, 14ch and 15ch, 16ch and 17ch, 19ch and 20ch, 21ch and 22ch, 23ch and 24ch, 25ch and 26ch, 28ch amd 29ch, 30 and 31ch, 32ch and 33ch, and 34ch and 35ch are the pair channels.)

- 2) When copying is made to 9ch, 18ch, 27ch and 36ch: Channels other than 9ch, 18ch, 27ch and 36ch do not change.
- (3) Copying of channel setting in PHF (SITRANS R200)
  - When copying is made to 4ch and 5ch:
     The same input type is used for both 4ch and 5ch.
  - 2) When copying is made to 1, 2, 3 and 6ch: Channels other than 1ch, 2ch, 3ch and 6ch do not change.



# 2.4 Setting math channels

Set the parameter regarding to formula, calculation, alarm, display and record of each math channel. On "Table of setting math channel display", double click the channel you want to change.



And then math channel setting display appears.

- \* When setting model is PHF (SITRANS R200), math channel setting screen is not displayed.
- \* Number of math channels differs according to model setting.

  When PHL (SITRANS R230) is selected: It is available to set till 12 channels between ch19 and ch30.

When PHU (SITRANS R260) is selected: It is available to set till 36 channels between ch37 and ch72.

- \* There are some screen to be able to display up to 7 characters as channel tag in spite of setting is available up to 8 characters. So don't set 8 characters as channel tag.
- \* When you set out of the range, message as shown below appears.

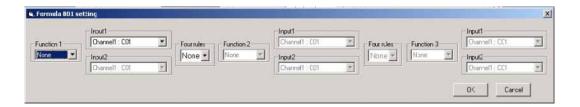


Message in recording range

\* Press [Apply] after changing channel setting, or your setting isn't registered, so when you turn off and on the recorder, setting value returns before you change.

# 2.4.1 Formula setting

Please click the [Set] button in the column of formula of Math channel setting to set the formula.



The Formula setting screen appears.

\* Please select the operational expression and the value respectively, push the [OK] button, and fix it.

<List of functions that can be used for Formula setting>

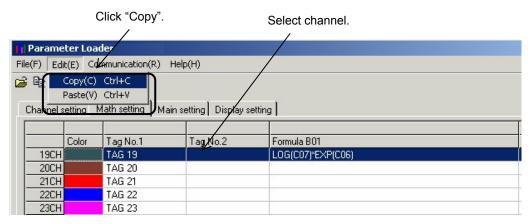
Grammar	Operation	Explanation
None	No operation	Argument is used with no operation performed.
ABS(A)	Absolute value	Finds the absolute value of input A.
POW(A,B)	Power	Finds the value of input A to "input B"th power.
SQR(A)	Square root	Finds the square root of the value of input A.
LOG(A)	Common logarithm	Finds the common logarithm of the value of input A.
LN(A)	Natural logarithm	Finds the natural logarithm of the value of input A.
EXP(A)	EXP	Finds the exponentiation of the value of input A with base "e."
RH(A,B)	Humidity	Finds the relative humidity with input A assumed to represent dry-bulb temperature and input B wet-bulb temperature.
MAX(A,B)	Maximum (between channels)	Compares input A and B and finds the larger value.
MIN(A,B)	Minimum (between channels)	Compares input A and B and finds the smaller value.
H-P(A)	Maximum (time)	Finds the maximum value of input A within a certain period of time.
L-P(A)	Minimum (time)	Finds the minimum value of input A within a certain period of time.
AVG(A)	Average	Finds the average value of input A within a certain period of time.
SUM(A)	Summation	Finds the sum of input A within a certain period of time.

<List of arguments (input) value that can be used for Formula setting>

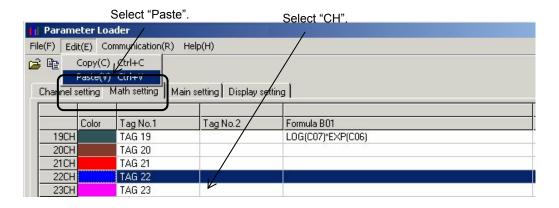
Argument	Explanation	Example
Channel	Input channel	C01
Totalize	Totalize channel	T01
DI	Digital input	D01
Communication	Communication input	M01
Constant	Constant	K01
Temporary data	Result of previous operation	B01

## 2.4.2 Copying the math channel set

This screen allows you to copy one or more set values from one channel to another. Move the cursor to CH on the Table of Setting Channel display, and click it (channel selection). Click "Edit"  $\Rightarrow$  "Copy".



Move the cursor to CH where you want to paste channel settings and click it (Channel selection). Click "Edit" ⇒ "Paste".



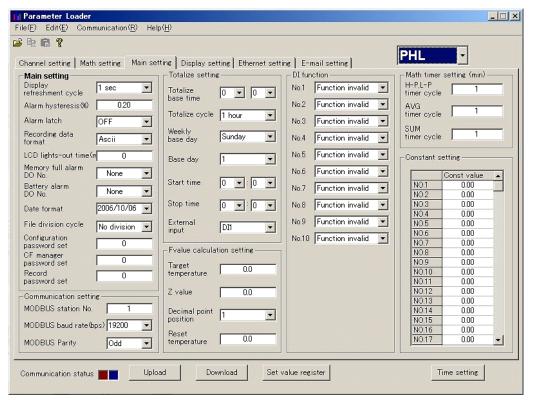
Next, the following message appears, prompting you to select the option.

Click "OK" when you want to copy the channel setting.

# 2.5 Setting the main unit

This screen allows you to set the recorder main unit.

Move the cursor to MAIN UNIT on the Table of Setting Channel display, and click it.



The Main unit set screen appears.

- \* Items that can be set differ according to model setting. (The above is the screen when PHL (SITRANS R230) is selected for model setting.)
- \* If values are entered over the specified range, the following message appears.



Alarm Hysteresis message

## 2.5.1 DI function setting (option)

The DI function allows you to accept the ON/OFF input from external devices connected to external terminals. Number of DI input points differ according to model setting.

When PHL (SITRANS R230) is selected:

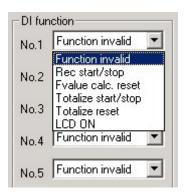
When PHU (SITRANS R260) is selected:

DI1 to DI10 (10 points)

DI1 to DI16 (16 points)

When PHF (SITRANS R200) is selected:

DI1 to DI5 (5 points)



Note:

When PHL (SITRANS R230) is selected:

DI1-DI5 cannot be used because DI (external control unit) option cannot be provided when the input point is 18 points.

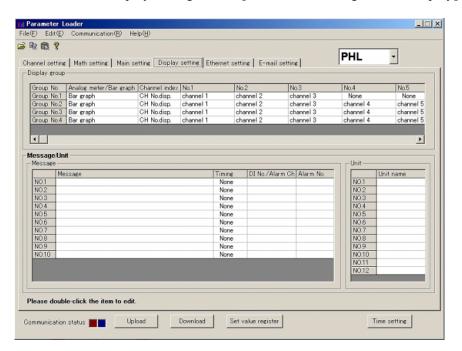
Without the communication function, DI6-DI10 cannot be used.

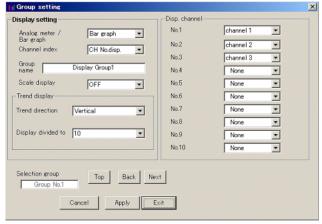
When PHU (SITRANS R260) or PHF (SITRANS R200) is selected:

DI cannot be used if DI (external control unit) option is not provided.

# 2.6 Display setting

At this screen, you can see or set regarding to screen setting such as structure of screen, trend display screen and so on. Click "Display setting" tab of [Structure of setting channel display].





Setting screen appears and you can see status about screen setting.

- \* Items that can be set differ according to model setting. (The above is the screen when PHL (SITRANS R230) is selected for model setting.)
- \* When PHF (SITRANS R200) is selected for model setting, "Analog meter / Bar graph" setting item in "Group setting" screen is not displayed.

## 2.6.1 Display setting

At this screen, you can set regarding to screen setting such as structure of screen, trend display screen and so on. Double click the group No. at "Display group" column on Display setting screen,

- \* Edit the displayed group on "Selected group No.".
- \* Screen name can set to recorder up to 16 characters.
- \* If scale display is ON, trend screen is divided in accordance with the scale, not the setting of "Display divided".

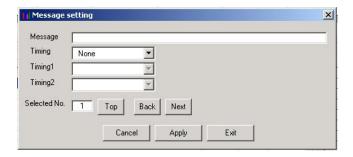
## 2.6.2 Setting channels

Set the structure of screen.

No.1 at this screen equals to data 1 of "display setting" of recorder, No.2 equals to data 2. Following is the same as above until No.10.

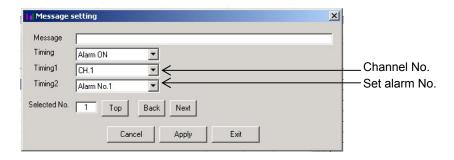
## 2.6.3 Setting message

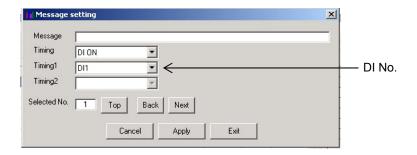
The screen allows you to set messages to be displayed when an event occurs. Move the cursor to No. of the Message box on the Main Unit Set screen and double-click it.



The Message Setting screen appears.

- \* When PHF (SITRANS R200) is selected for model setting, setting cannot be made as message function is not available.
- \* Up to 32 characters is available for the message. The characters exceeding 32 cannot be displayed on the recorder main unit.
- \* After the input of message set data, be sure to press the "Apply" button, or the message cannot be registered.
- \* Message timing is allocated as follows:

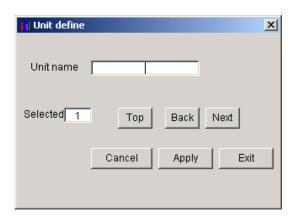




# 2.6.4 Unit coding

Units can be made in alphanumerical characters. This unit can be registered in the input unit when scaling is set to ON on the Channel Setting screen.

Move the cursor to No. of the Unit box on the Main Unit Set screen and double-click it.



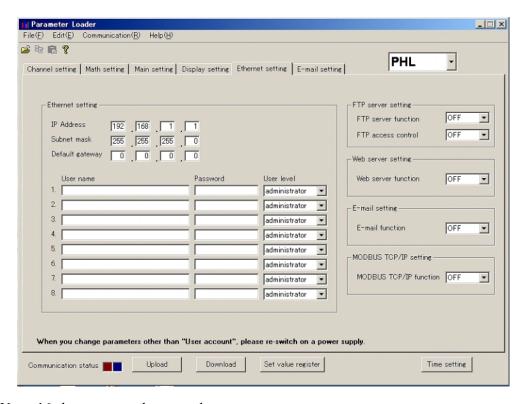
The Unit Setting screen appears.

- \* A message (unit) consisting of up to 7 characters is available for the recording main unit.
- \* After the input of unit set data, be sure to press the "Apply" button, or the unit cannot be registered.

# 2.7 Ethernet communication setting

Settings related to Ethernet communications such as IP address, user name, operation setting of each Ethernet communication function of the display recorder can be checked or made.

\* Ethernet communication function cannot be used unless the display recorder main unit is provided with Ethernet communication option.



- \* Up to 16 characters can be entered as user name.
- \* Up to 8 characters can be entered as password.
- \* Items that can be set in user level differ according to model setting.

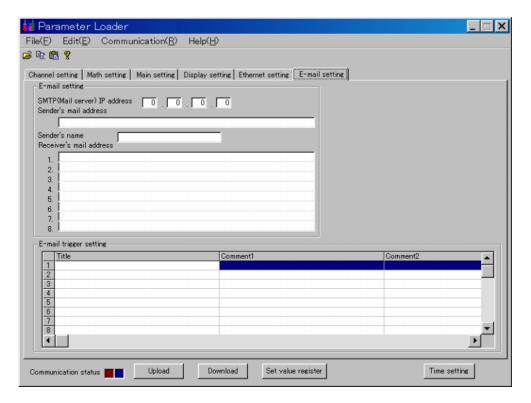
  When PHL (SITRANS R230) or PHF (SITRANS R200) is selected: "Administrator", "Guest"

  When PHU (SITRANS R260) is selected: "Administrator", "Engineer", "Operator", "Guest"

# 2.8 E-mail communication setting

Settings related to E-mail communications such as send/receive address and send trigger can be made.

\* E-mail communication function cannot be used unless the display recorder main unit is provided with Ethernet communication option.

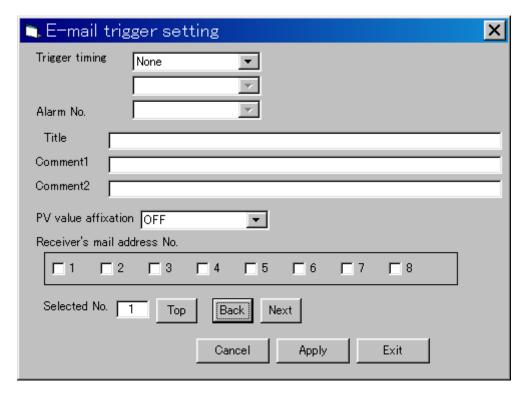


- \* Up to 64 characters can be entered as send/receive address.
- \* Up to 32 characters can be entered as sender name.

## 2.8.1 E-mail trigger setting

Other conditions for E-mail transmission can be selected as follows.

Move the cursor to "E-mail trigger" on the E-mail setting screen and double-click it.



- \* Up to 32 characters can be entered as the title of E-mail and comments 1 and 2.
- \* Be sure to press the [Apply] button to confirm the E-mail trigger setting data that has been entered.
- \* E-mail trigger timing is allocated as shown below.
- When sending E-mail by DI operation
- Trieser timine
  DI ON
  DI DI No.
  Alarm No.
  Title
  Comment1
  Comment2

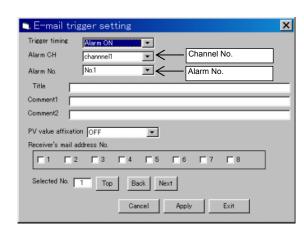
  PV value affixation OFF
  Receiver's mail address No.

  T1 2 3 4 5 6 7 8

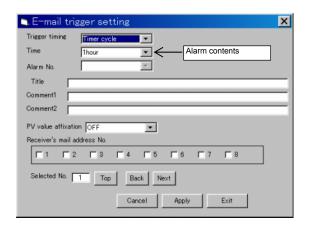
  Selected No. 1 Top Back Next

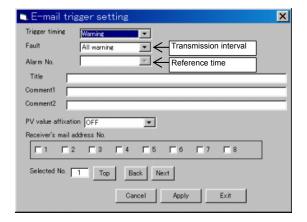
  Cancel Apply Exit

• When sending E-mail by alarm operation



• When sending E-mail by alarm operation of • When sending E-mail at fixed intervals the main unit





# **EXAMPLE OF SETTING PARAMETERS TO BE PRINTED OUT A.1**

PILC Ser.N Ver.	: PHL21B Io.: LYT000 : V05L															
	Channel se	tting***	*													
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13	500mV 500mV JPt100 Pt100 0-5V 0-5V	Sky blu	ish green reen ed	Tag	01 T02	ag No.2 ag 2-01 ag 2-02 ag 2-03 ag 2-05 ag 2-06 ag 2-07 ag 2-07 ag 2-10 ag 2-11 ag 2-12 ag 2-13 ag 2-15 ag 2-14 ag 2-15 ag 2-16 ag 2-17 ag 2-18	*C *F *F *C *MV *MV *F *F *V V	ut unit	Scal: ON/OI OFF OFF OFF OFF OFF OFF ON OFF ON OFF OFF		Measurir Start	End	600.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 4.000	Engineer: Start  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	ing unit End 500.0	Square rooter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH11 CH13 CH14 CH15 CH16 CH16 CH17	Input filter 3 0 3 4 4 5 6 7 7 8 0 3 3 90 3 10 5 5 3	PV shift	PV gai 100.0 100.0 100.0 140.0 140.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	n 11	Subtrac channel None channel channel channel channel None None channel None channel None channel None	calc OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	- r v v v v v v v v v v v v v v v v v v	Recordinode  With re	ecord ecord	Point Averag Min-Ma Point	ax value value ge value value value value value value	Start 0 32 3 32 4 4.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .0 .0 .0 .0 .5 .6 .0 .0 .0 .0 .0 .0 .0 .0	ge 2nd 1200.0 572.0 932.0 5500.6 500.0 5500.		
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16 CH16	STAG 02 STAG 03 STAG 04 STAG 05 STAG 06 STAG 07 STAG 08 STAG 09 STAG 10 STAG 11 STAG 12 STAG 13 STAG 14 STAG 15 STAG 16 STAG 15		Totalize Type Daily Weekly Periodic Periodic Periodic Monthly Annual Periodic Daily External Periodic Periodic Periodic Periodic Annual Periodic Weekly	me se	inp DI3 Ch1 DI1 DI3 Ch6 DI1 DI1 Ch13 DI1 Ch13 DI1 Ch13 DI1 DI1 DI1 Ch30 DI1 DI1	ital ut Alarm2 Alarm3 Alarm3 Alarm4	/min /h /s /h /h /min /min /h	cime of control of con	deset perat: N FF N N N N N N N N N N N N N N N N N	Tota: ion Un: ppmC( rps SEC m/s2 uGy/l dB %NaC: m/min mol km/h min mm/m: uGy/l	0 (h 1 () 3 () 1 () 1 () 1 () 1 ()	calize value 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	366 999 16 3276 5	value 2 3 4 00 99		
CH1 CH2 CH3 CH4 CH5 CH6	type H H OFF H H OFF CFF L OFF L OFF H L OFF H L OFF OFF		DO relay No. 1 None None 1 28 1 None None 3 5 None 4 None None None None None None None	Alar. Alar. type H OFF OFF L OFF OFF H OFF H OFF H OFF H OFF H OFF		larm se value 100.0 0.0 0.0 0.0 0.040 50.0 0.0 0.0 0.0 0.0 0.00 0.900 600.0 0.00 0.0	Noi Noi Noi Noi Noi Noi Noi Noi	elay Albo. ty 2 H ne OF ne OF ne OF ne OF L ne OF 6 OF he OF 6 F H ne OF	rpe FF FF FF FF FF	Alarm valu 100 0 0 0.00 50 0 0 0.90 600 0.00	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	relay No. 3 None 5 26 None None None 6 22 None None None None None None None None	Alarm Alarm type H L OFF OFF OFF OFF OFF OFF OFF OFF OFF O		et DO relay No.  4 None None 3 25 None None None None 4 None None None None None None None None	

33 A5E02473314A-01

```
****Math channel setting****
     Math Channel
Formula
B01 = LN(C01)+SQR(C06)
B02 = C01+C01+C01
B03 = C01/C01/D10
C1M4/K14,K15)
                                                                     CH25
                                                                           B01 = C25
B02 =
                                                                              B03
CH20
            = ABS (B03) -ABS (C06) *ABS (C07)
                                                                     CH26 B01 = C26
       B01
        B02 = C01

B03 = T16*M04-LOG(T08)
                                                                              B03
      Result = SUM(C01,C06)-MIN(C01,C06)+POW(T11,C07)
                                                                           Result
CH21
       B01 = C21
                                                                     CH27
                                                                             B01 = C27
        B02
             = C01
                                                                              B03 =
        в03
                                                                           Result =
      Result
CH22
                                                                     CH28
                                                                             B01 = C28
       B01 =
                C22
        B02
                                                                              B02
             = C01
        B03
                                                                              B03
     Result
              = C01
                                                                           Result
                                                                     CH29
                                                                             B01 = C29
CH23
       B01
                C23
        B02
                                                                              B02
        B03
                                                                              B03
     Result
                                                                           Result
      B01 = C24
                                                                     CH30 B01 = C30
B02 =
CH24
       B02 =
        B03
                                                                              B03
      Result =
                                                                           Result =
                        Tag No.1 Tag No.2 Input unit Start
                                                            Measuring range
                                                                                      Engineering unit
                                                                                                                Square
                                                                      End
                                                                                     Start
11.9
                                                                                                   End
                                                                                                                rooter
CH19 Indigo
                        TAG19 Tag 2-19 t/d
TAG20 Tag 2-20
                                                                            501 9
                                                                                                     501 9
                                                                                                               ON
                                                                                       0.0112
                                                             0.0120
                                                                                                               OFF
CH20 Dark red
                                                                           0.5200
                                                                                                     0.5200
                                                                           5210
                                                                                     0.0112
121
22.0
0.123
0.240
CH21 Red
CH22 Blue
                        TAG21
                                   Tag 2-21
                                                             22.0
                                                                121
                                                                                                       5210
                                                                                                                OFF
                                              ppmH2S
%Ar
ppmCO
                                   Tag 2-22
                                                                             22.0
                                                                                                       22.0
                        TAG22
                                                                                                                OFF
                                  22.
0.12
0.24(
m3/h
1.25
2-26 %NaCl
1.26
1ag 2-27 us
0.127
Tag 2-28 l/min
0.0280
Tag 2-29 pH
0.290
Tag 2-30 rps

Subtract
ain cht.
CH23 Violet
                        TAG23
                                                                            5.023
                                                                                                      5.023
                                                                                                                OFF
                                                                             5.240
CH24 Green
                        TAG24
                                                                                                      5.240
                                                                                                                ON
                                                                            50.25
50.26
                                                                                          1.25
CH25 Deep green
                        TAG25
                                                                                                      50.25
                                                                                                                ON
CH26 Purple
CH27 Sky blue
CH28 Yellow
                                                                                                      50.26
                        TAG26
                        TAG27
                                                                            5.027
                                                                                         0.270
                                                                                                      5.027
                                                                                                                ON
                        TAG28
                                                                           0.5280
                                                                                       0.0280
                                                                                                     0.5028
                                                                                                                OFF
CH29 Indigo
                        TAG29
                                                                         300.0
                                                                            5.029
                                                                                         0.129
                                                                                                      5.029
                                                                                                               OFF
                                                                                                      300.0
CH30 Dark red
                        TAG30
                                                                                         30.0
                                                                                   Recording
                                                                   Recording
                                                                                                    Display range
                                           channel calc.
None OFF
None OFF
                              PV gain
100.19
                                                                   mode
With record
                                                                                   type
Point value
       filter
                  PV shift
                                                                                                    Start
CH19
                     101.9
                                                                                                        19.0
                                                                                   Average value 0.0200
Min-Max value 210
                                                                                                                1.0200
CH20
           10
                   0.0020
                                100.20
                                                                   With record
With record
CH21
                    210
                               210.00
                                            channel11 OFF
                                                                                                      210
                                                                                   Point value
                                            channel5 OFF channel24 OFF
CH22
           22
                                 22.00
                                                                   With record
                                                                                                                   122.0
                    0.023
                               100.23
                                                                                    Point value
CH23
                                                                   With record
                               124.00
                                            channel11 ON
channel27 OFF
CH24
           24
                    0.240
                                                                   With record
                                                                                   Min-Max value
                                                                                                      2.400
                                                                                                                 10.240
                               25.00
CH25
                                                                   With record
CH26
           26
                    26.00
                                 26.00
                                            channell1 OFF
                                                                   With record
                                                                                   Average value
                                                                                                      26.00
                                                                                                                 101.26
                                            channel5
                                                                   With record
                                                                                    Point value
CH28
           28
                   0.2800
                               100.28
                                            channel5 ON
                                                                   With record
                                                                                   Point value
                                                                                                      0.280
                                                                                                                   0.280
                              100.29
                   0.290
                                           None OFF
channel30 OFF
                                                                   With record
                                                                                    Point value
                                                                                                      2.900
CH30
           3.0
                     30.0
                                                                   With record
                                                                                   Min-Max value
                                                                                                       30.0
                                                                                                                 1030.1
*****Totalize setting****
 Totalize Totalize Totalize
Tag calc. Type
                                                Digital
                                                             Totalize
                                                                                     Totalize Totalize Totalize
                 calc. Type
Totalizer Periodic
                                                                          operation Unit Cut value Scale value OFF g/ml 1190.0 19
                                                input
                                                             Base time
                                                             /day
                                                                                    g/ml
                                               DI1
CH20 STAG 20
                 Counter Daily
Totalizer Weekly
                                               DI6
                                                             /min
                                                                          ON
                                                                                     %C02
                                                                                                0.0020
                                                                                                                 20
                                                                                    ppmNH3
VA
                                                             /h
/h
                                                                                                210
22.0
CH21 STAG 21
                                               DI1
                                                                          OFF
CH22 STAG 22
                 Totalizer Monthly
                                               DI1
                                                                          ON
                                                                                                                22
                 Totall
Timer
Counter
                            Annual
CH23 STAG 23
                                               DI6
                                                              /min
                                                                          ON
                                                                                                 0.230
                            Daily(Time set)
CH24 STAG 24
                                               DI6
                                                             /s
                                                                          ON
                                                                                                 0.240
                                                                                                                24
                            External
                                                              /s
/day
CH25 STAG 25
                 Timer External
Totalizer Periodic
                                               DI6
                                                                          ON
                                                                              ohm
Pa
k oh
                                                                                                   0.00
                                                                          ON
                                                                                                                26
CH26 STAG 26
                                               DI1
                                                             /s
                                                                                                   2.60
                                                                          ON
CH27 STAG 27
                 Totalizer Periodic
                                                              /min
                                                                                    Pa .
                                                                                                 0.270
CH28 STAG 28
                 Totalizer Periodic
                                               DI1
                                                             /h
/day
                                                                                                 0.280
                                                                                                                28
CH29 STAG 29
                 Totalizer Periodic
                                               DI1
                                                                          ON
                                                                                     k ohm
                                                                                                 0.290
CH30 STAG 30 Totalizer Periodic
                                               DI1
                                                             /s
                                                                          ON
                                                                                     cd/m2
                                                                                                   30.0
                                                                                                                30
*****Alarm setting****
     Alarm No.1
                                       Alarm No.2
                                                                         Alarm No.3
                                                                                                           Alarm No.4
                Alarm set DO relay
                                       Alarm Alarm set DO relay Alarm
                                                                                   Alarm set DO relay
     Alarm
                                                                                                          Alarm Alarm set DO relay
                                                                                                  No.
20
                              No.
28
28
                value
159.0
                                                   value
319.0
                                                                  No.
                                                                                   value
219.0
                                                                                                                      value
189.0
      type
                                       type
                                                                         type
                                                                                                           type
CH19 H
CH20 H
CH21 H
                                       Н
                                                                         H
L
                                                                                                          OFF
                 0.4200
                                                  0.3200
                                                                    8
                                                                                     0.2200
                                                                                                     23
                                                                                                                      0.1200
          0.4200
4210
22.0
4.230
4.240
25.00
41.26
0.270
4.280
4.290
                                       OFF
                                                   321
22.0
3.123
                                                                         OFF
                                                                                    221
22.0
2.230
                                                                                                          OFF
                               None
                                                                                                     26
                                                                                                                          21
                                                                                                                      21
22.0
                         22
27
None
25
CH22 OFF
                                       OFF
                                                                   22
                                                                         OFF
                                                                                                          OFF
CH23 H
CH24 H
                                                                         L
H
                                                                                                     22
                                                                                                          OFF
                                                                                                                        1.230
                                       Н
                                                                    8
                            None
25
                                       OFF
                                                   3.240
325.00
                                                                                     2.240
225.00
                                                                                                     27
25
                                                                                                          L
L
                                                                                                                        1.240
CH25 L
                                                                   10
                                                                                                                       125.00
СН26 Н
                                 26
                                       OFF
                                                   326 00
                                                                    9
                                                                         OFF
                                                                                     226.00
                                                                                                     19
                                                                                                          т.
                                                                                                                       126 00
                                                                         H
H
CH27 H
                                                                   10
                                                                                      2.270
                                                    3.270
                                                                                                          Н
                                                                                                                        1.270
                                 12
                                       H
L
                               28
22
                                                                                                          L
L
СН28 Н
                                                    3.280
                                                                                     2.280
                                                                                                     20
                                                                                                                        1.280
CH29 L
                                       OFF
                                                    3.290
                                                                                      2.290
                                                                                                     26
                                                                                                                        1.290
                                     OFF
снзо н
                  430.0
                                                    330.0
                                                                  28 OFF
                                                                                      230.0
                                                                                                     26
                                                                                                          OFF
                                                                                                                        130.0
                                                                                                                                       25
****Basic setting****
                                      Alarm hysteresis 1.32 (0)
Memory full alarm DO relay No.
Display refreshment cycle 10 sec
                                            Alarm hysteresis 1.32 (%) Alarm latch OFF
LCD lights-out time 0 min
Data Format Nov-19-05
                                                                                      5 Battery alarm DO relay No.
                                                                                                                                       4
                          1 MODBUS baud rate 19200 bps MODBUS parity Odd
MODBUS Station NO. 1 MODBUS baud rate 19200 pps MODBUS Station NO. 1 Recording data format Binary File division cycle No division Configuration password 1 CF manager password 2
                                                                            REC key password 1
```

```
*****Fvalue calculation setting***** Target temperature 100.0 ^{\circ}C Z val Fvalue reset temperature 10.0 ^{\circ}C
                                            Z value 200.0 °C Decimal point position 3
****Totalize setting****
                                          Totalize recording cycle 12 hour
Totalize base time 04:31
                                        Monthly base day stop time 22:59
Weekly base day Saturday
Totalize start time 23:06
Extrnal input Ch19 Alarm1
****Math timer setting****
H-P/L-P operation 2 min AVG operation 4 min SUM operation
                                                                                                                 2 min
****Display setting****
                    etting*****
Content of screen composition
No.2 No.3 No.4
No.1 No.2 No.3 No.4 No.5 No.6 No.7 No.8 No.9 No.10

Display group2 channel1 channel2 channel2 channel3 channel3 channel3 channel4 channel5 channel6 channel6 channel7 channel7 channel8 channel9 channel10

Display group3 channel15 channel15 channel18 None None None None None None

Display group4 channel9 channel20 channel20 channel22 channel22 channel24 channel24 channel25 channel25 channel26 channel26 channel26 channel27 channel28
                                                                                                Bar graph/ Color bar
                                             Trend
                                                                Display
                                                                               Scale
                                               Trend Display Scale direction division No. display
                                                                                                 Analog meter
                                                                                                                    display selection
Display name direction
Display group1 1.Diplay Group1 Vertical
Display group2 2.Diplay Group2 Horizontal
Display group3 3. Diplay Group3 Vertical
Display group4 4.Diplay Group4 Horizontal
                                                                        13
                                                               20
13
                                                                                  ON
ON
                                                                                                Bar graph Tag No.
Analog meter Channel No.
                                                                                  OFF
                                                                                               Bar graph Unit
Analog meter Tag No.
                                                                        10
                                                                                 OFF
****Message setting****
                                                       Timing1
                                                                            DI NO./
        Message
                                                                            Alarm Channel Alarm NO.
                                                       DI ON
No.1 Massage DI1 ON
                                                                             DI1
No.2 Massage DI5 OFF DI OFF
No.3 Massage Channel19 Alarm No.1 ON Alarm ON
                                                                             CH.19
                                                                                                  Alarm No.1
No.4 Massage Channell9 Alarm No.1 OF Alarm OFF
No.5 Massage DI4 ON DI ON
No.6 Massage Channell9 Alarm No.3 OFF Alarm OFF
                                                                             CH.19
                                                                                                  Alarm No.1
                                                                             DI4
                                                                             CH.19
CH.19
                                                                                                 Alarm No 3
       Massage Channell9 Alarm No.2 ON Alarm ON
                                                                                                 Alarm No.2
No.7
No.8 Massage DI4 OFF
                                                       DI OFF
                                                                             DI4
                                                                             CH.5
         Massage ChannelO5 Alarm No.4 OFF Alarm OFF
                                                                                                 Alarm No.4
No.10 Massage Channel04 Alarm No.2 ON Alarm ON
                                                                            CH.4
                                                                                                 Alarm No.2
          iginal Unit deri...
No.1 No.2 No.3
mPa
"a 8 No.9
*****Original Unit definition****
                                                          No.4 No.5
                                                                                       No.6
                                                   NO.4
SEC
No.10 No.11 No.12
Unit
Unit
*****DI function setting****
*****DI function setting DI-1 Rec start/stop
DI-2 Fvalue calc. reset
DI-3 Totalize start/stop
DI-4 Function invalid
                                                  DI-6 Rec start/stop
DI-7 Rec start/stop
DI-8 Fvalue calc. reset
DI-9 Totalize start/stop
                                                   DI-10 Totalize reset
DI-5 Rec start/stop
*****Constant setting*****
Constant1 1 Constant11
Constant2 2 Constant12
                                                                    0.002
                                                                   0.0003
                               3.0
                                                                       0
100
Constant3
                                       Constant13
Constant4
                                        Constant14
                            5.000
Constant5
                                       Constant15
                                                                       120
                             60
700
Constant6
                                        Constant16
Constant7
                                        Constant17
                                                                          0
                             8000
Constant9
                               0.9
                                       Constant19
                                                                      99.3
Constant10
                             0.01
*****Ethernet setting*****
Ethernet setting
                            192 . 168 . 0 .
255 . 255 . 255 .
0 . 0 . 0 .
IP Address
Subnet mask
Default gateway
Password setting
                                     Password
                                                               User level
   User name
No.1 SystemTaro
                                      a19b23
                                                              administrator
No.2 KirokuKeiko
                                        65790
                                                             administrator
No.3
                                                              administrator
No.4
                                                              administrator
No.5
                                                              administrator
                                                              administrator
No.6
No.7
                                                              administrator
No.8
                                                              administrator
```

```
FTP server setting
FTP server function
                            ON
                                                  Access control ON
Web Server setting
Web server function
                            ON
E-mail setting
E-mail function
MODBUS TCP/IP setting
MODBUS TCP/IP function ON
*****E-mail setting*****

SMTP(Mail server) IP address 192 . 198 . 0 . 1
Sender's mail address boiler035@test.co.jp
Sender's name Boiler035
Receiver's mail address
No.1 System-Taro@test.co.jp
No.2 Kiroku-Keiko@test.co.jp
No.3
No.4
No.5
No.6
No.7
No.8
E-mail trigger setting
Title Comment1

No.1 Product1 manufacturing beginning Product1 manufacturing beginning Boiler035

No.2 Boiler035 report at regular time Report at regular time Boiler035
                                                     Report at regular time Boiler035

The temperature is abnormal! Boiler035
No.3 The temperature is abnormal!
No.4
No.5
No.6
No.7
No.8
No.9
No.10
                                                             Trigger timming Timming1 Timming2
No.1 DI ON DI2 -
No.2 Timer cycle
No.3 Alarm ON
                          12hour
                          channnel1
                                             No.4
No.4 None
No.5 None
No.6 None
                                                                              No.7 None
No.8 None
                                                                  OFF
OFF
No.9 None
No.10 None
                                                                  OFF
OFF
```

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