

ESPEC CORP.
Apr. 2002 revision 2

ERC-100SII Screen Manual

1. ERS-100SII

About Password

Customer initial password: 0000

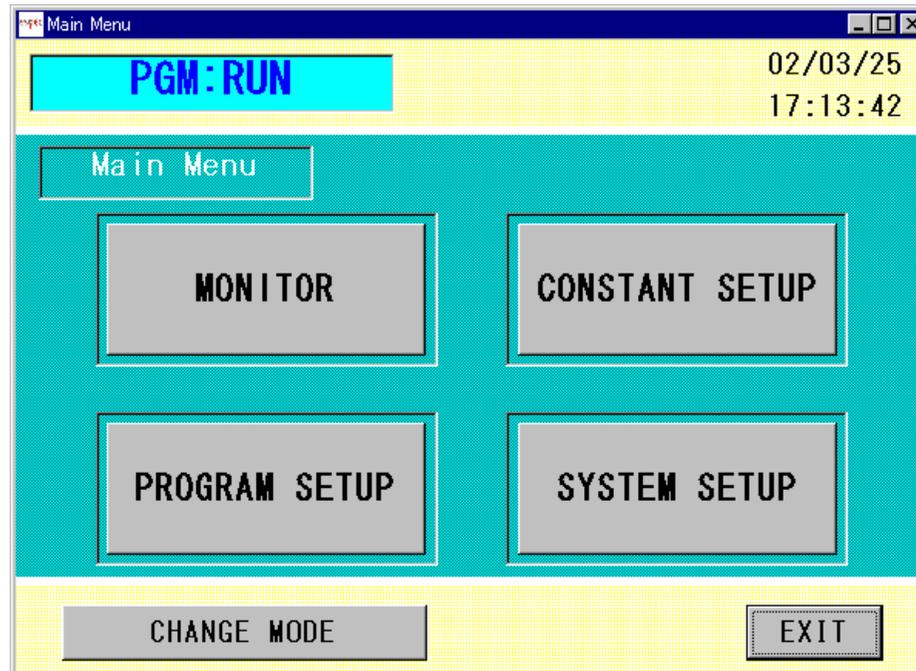
A password for demonstraion when communication disconnected : espec



When you boot ERC-100SII for the first time after installation, please enter a pass word for demonstration.
Then set the communication parameter and chamber type on the Communication Set or Property screen of System Setup.
[NOTE] Customer initial password (0000) cannot be accepted this time.

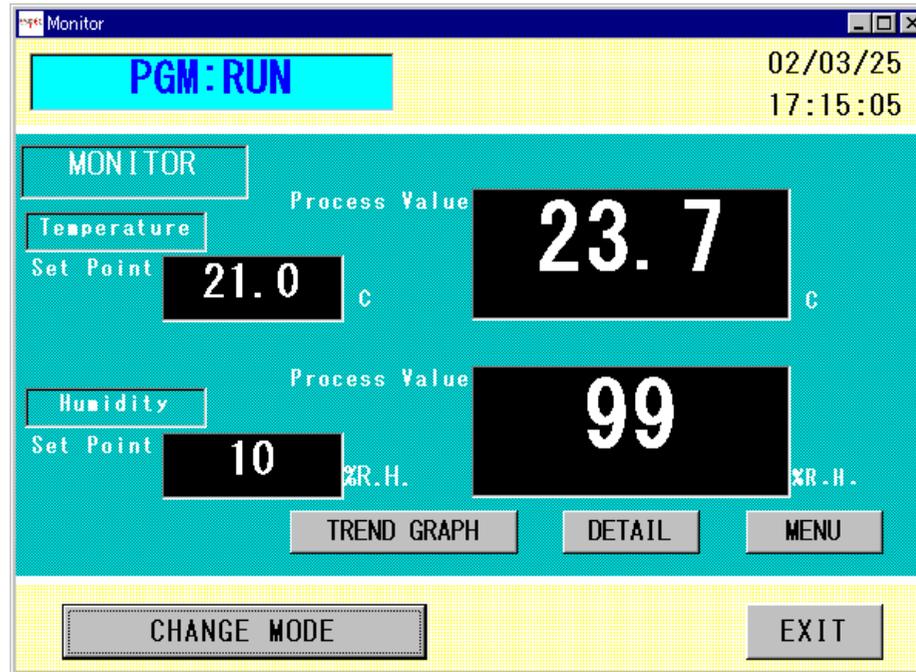
2. Main Menu

This is the main screen of ERC-100SII.



3. Monitor

This screen shows TEMP PV, TEMP SV, HUMI PV and HUMI SV.
It is impossible to set SV on this screen.



3.1 Trend Graph

REC TIME shows the time when the graph data is updated.

HUMI SV line does not appear in case of HUMI OFF and the purple line is drawn above the graph instead.

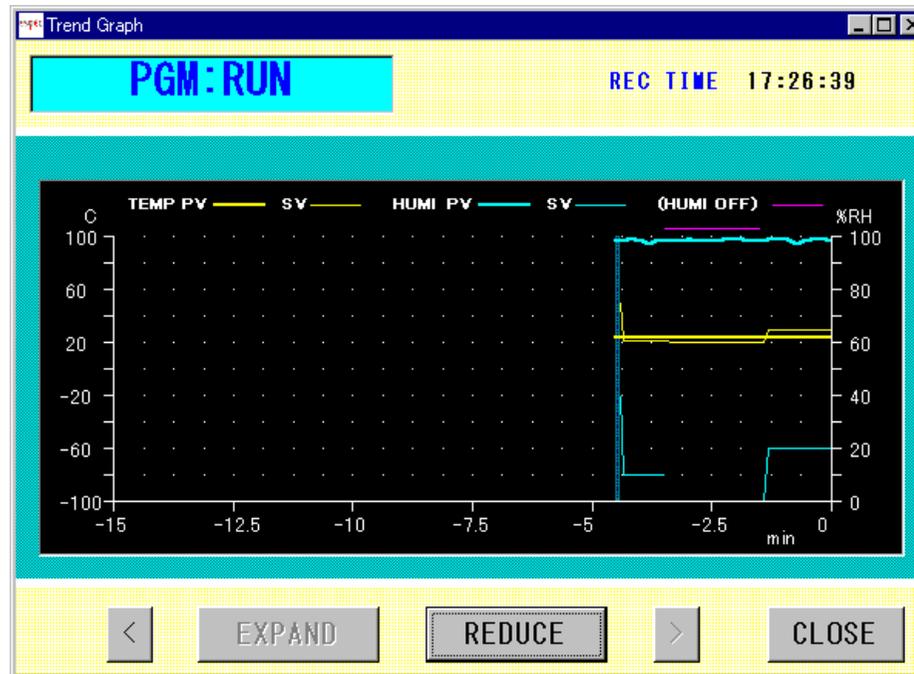
About the background color

Gray: When the P-instrumentation is sending Error Message

Red: When the communication is in trouble

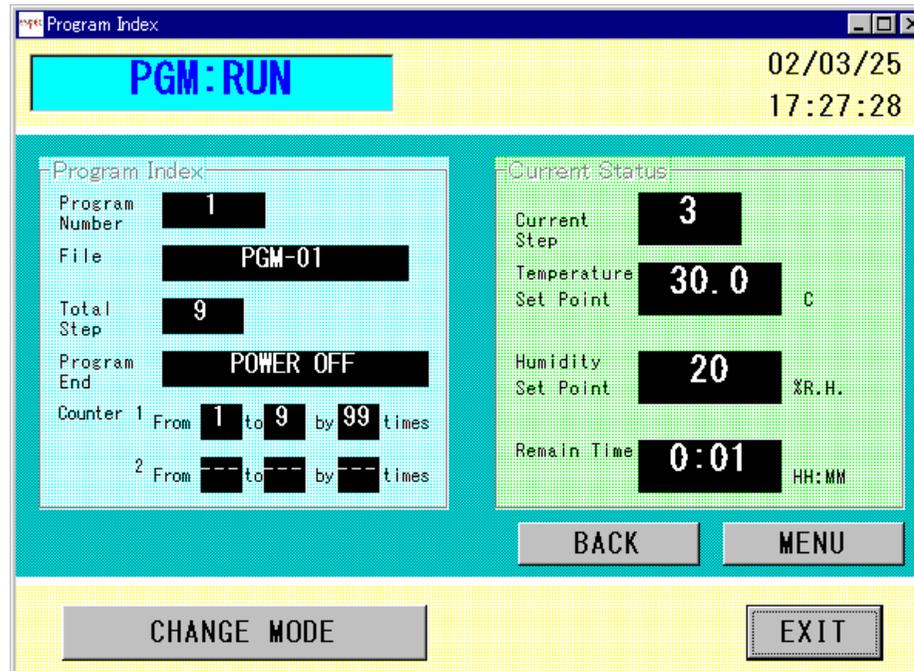
Blue: When the P-instrumentation is Power OFF or STOP

Black: Others (during normal operation)



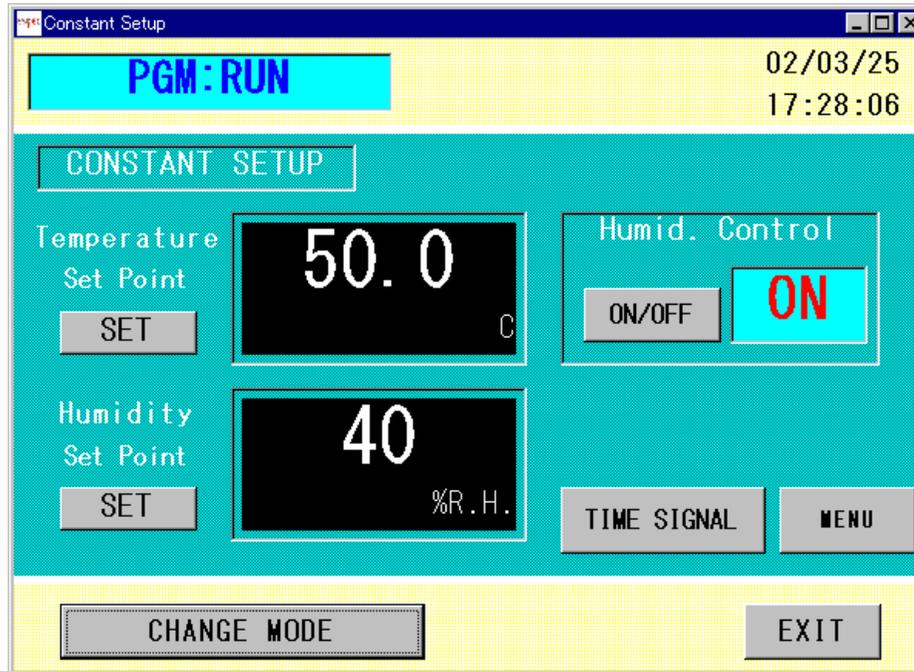
3.2 Program Index

This screen appears only during the program is operated.



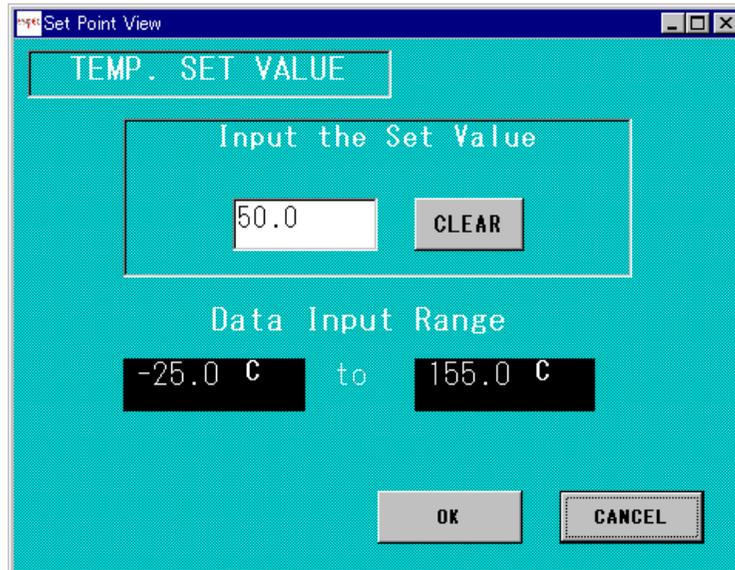
4. Constant Setup

This screen is to set the TEMP SV and HUMI SV of the constant operation and also the humidity control setting.



4.1 / 4.2 Set Point View

It is possible to set the TEMP SV and HUMI SV within the data input range in spite of the operation status of the chamber. The following is the screen to set the TEMP SV.



4.3 Time Signal

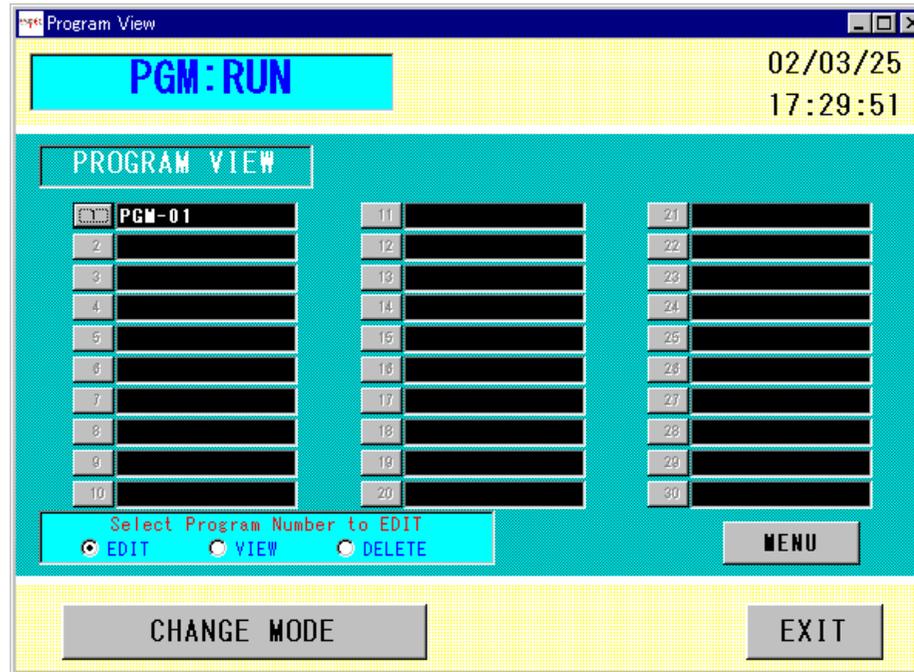
This screen is to set time signal of constant operation.
In case that time signal (option) is set in the instrumentation, ERC-100SII can change its ON/OFF setting.
Time signal options in ERC-100SII and the instrumentation do not link.
That is, ERC-100SII cannot detect the setting state of time signal option in the instrumentation.

The screenshot shows a software window titled "Time Signal" with a cyan background. At the top center, there is a white box containing the text "TIME SIGNAL" in blue. Below this, there are 12 rows of controls, each consisting of a yellow box with a signal name and a checkbox labeled "ON/OFF". The signal names are: "1 Time Signal-1", "2 Time Signal-2", "3 Time Signal-3", "4 Time Signal-4", "5 Time Signal-5", "6 Time Signal-6", "7 Time Signal-7", "8 Time Signal-8", "9 Time Signal-9", "10 Time Signal-10", "11 Time Signal-11", and "12 Time Signal-12". At the bottom of the window, there are two buttons: "SAVE" and "CANCEL".

5. Program view

No.1 shows RAM program (editable by customers).

No. 2 to 30 cannot be used.



5.1 Program Editor

Gray mask is applied where it is unable to edit in order to prevent the mis-input.

Click the step number to cancel the gray mask. It can be canceled only the pre-step mask is also canceled.

Input the capital letters of "OFF" to turn off the humidity operation, not "0."

Time signal between No.3 and 12 can be displayed by clicking DETAIL even though they are not set in fact.

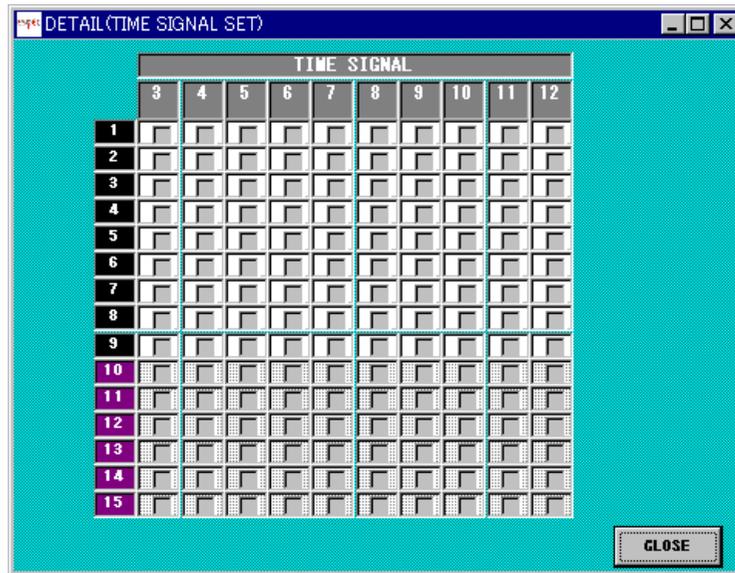
Make sure to set the same time signal option in ERC-100SII as in the instrumentation (Main Menu → System Setup → Property).

Choose SAVE only from the page that has temperature input, otherwise the error message appears and it is impossible to send the program.

	Temp.	Humid.	TIME	Time Sig.	
	SP / Ramp Ctrl.	SP / Ramp Ctrl.	HH:MM / Soak Ctrl.	1	2
1	21.0	<input type="checkbox"/> 10	<input checked="" type="checkbox"/> 0:01	<input type="checkbox"/>	<input type="checkbox"/>
2	20.0	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> 0:02	<input type="checkbox"/>	<input type="checkbox"/>
3	30.0	<input type="checkbox"/> 20	<input type="checkbox"/> 0:03	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	40.0	<input checked="" type="checkbox"/> 30	<input type="checkbox"/> 0:04	<input type="checkbox"/>	<input type="checkbox"/>
5	50.0	<input type="checkbox"/> 30	<input checked="" type="checkbox"/> 0:05	<input type="checkbox"/>	<input type="checkbox"/>
6	60.0	<input type="checkbox"/> OFF	<input type="checkbox"/> 0:06	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	70.0	<input type="checkbox"/> 40	<input type="checkbox"/> 0:07	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	80.0	<input type="checkbox"/> OFF	<input type="checkbox"/> 0:08	<input type="checkbox"/>	<input type="checkbox"/>
9	90.0	<input type="checkbox"/> 50	<input type="checkbox"/> 0:09	<input type="checkbox"/>	<input type="checkbox"/>
10					
11					
12					
13					
14					
15					

5.1.1 Detail (Time Signal Set)

This screen is to set time signal of program operation, however, it is not set in fact.



5.2 Program List

This screen looks like the Program Editor screen, but it is impossible to edit the program on this screen.

This screen can be printed out with PRINT OUT key.

The settings on this screen are able to be saved in any media which is connected with PC by choosing SAVE key.

	Temp.	Humid.	TIME	Time Sig	
	SP / Ramp Ctrl.	SP / Ramp Ctrl.	HH:MM / Soak Ctrl.	1	2
1	21.0	10	0:01	<input type="checkbox"/>	<input type="checkbox"/>
2	20.0	OFF	0:02	<input type="checkbox"/>	<input type="checkbox"/>
3	30.0	20	0:03	<input type="checkbox"/>	<input type="checkbox"/>
4	40.0	30	0:04	<input type="checkbox"/>	<input type="checkbox"/>
5	50.0	30	0:05	<input type="checkbox"/>	<input type="checkbox"/>
6	60.0	OFF	0:06	<input type="checkbox"/>	<input type="checkbox"/>
7	70.0	40	0:07	<input type="checkbox"/>	<input type="checkbox"/>
8	80.0	OFF	0:08	<input type="checkbox"/>	<input type="checkbox"/>
9	90.0	50	0:09	<input type="checkbox"/>	<input type="checkbox"/>
10				<input type="checkbox"/>	<input type="checkbox"/>
11				<input type="checkbox"/>	<input type="checkbox"/>
12				<input type="checkbox"/>	<input type="checkbox"/>
13				<input type="checkbox"/>	<input type="checkbox"/>
14				<input type="checkbox"/>	<input type="checkbox"/>
15				<input type="checkbox"/>	<input type="checkbox"/>

6. System Setup

It is possible to set conditions of ERC-100SII from this screen.



6.1 Limit Set

This screen is to set the high and low limit of TEMP SV and HUMI SV.

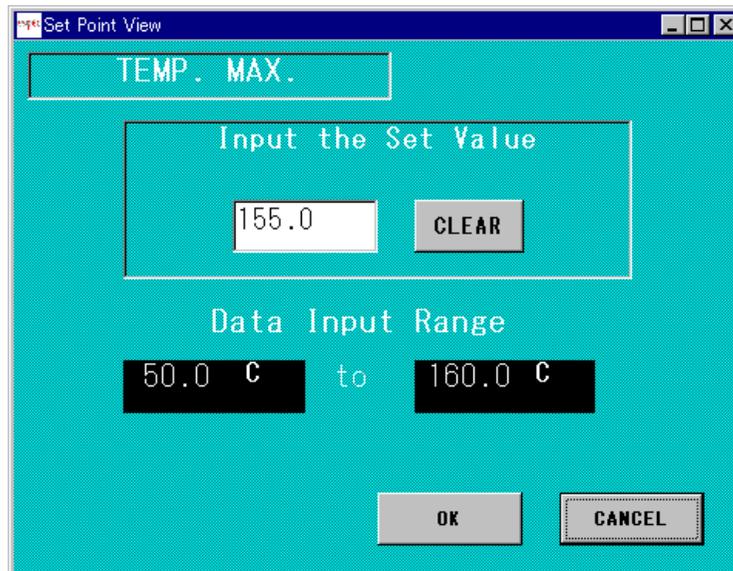
The screenshot shows a window titled "Limit Set" with a cyan background. It is divided into two sections: "Temperature" and "Humidity". Each section has two rows for "High Limit" and "Low Limit", each with a numeric input field, a unit label, and a "SET" button. A "CLOSE" button is located at the bottom right.

Parameter	Limit Type	Value	Unit	Action
Temperature	High Limit	155.0	c	SET
	Low Limit	-25.0	c	SET
Humidity	High Limit	100	%R.H.	SET
	Low Limit	0	%R.H.	SET

6.1.1 / 6.1.2 / 6.1.3 / 6.1.4 Set Point View

It is possible to set the high and low limit of TEMP SV (HUMI SV) regardless of the operation status of the chamber. The screen below is the setting screen of high limit temperature.

The input range of high/low limit temperature (humidity) depends on the latest set temperature (humidity), that is, input range of low limit temperature (humidity) is the min. temperature (humidity) to the latest set temperature (humidity) and that of high limit temperature (humidity) is the latest set temperature (humidity) to max. temperature (humidity). Therefore, input range changes as the latest set temperature (humidity) changes. For example, when the set humidity is 0, input range of low limit humidity is 0%R.H. to 0%R.H.



6.2 Sampling Setup

This screen is to set the trend graph.

The present graph data will be cleared when the sampling cycle is changed or the CLEAR key is chosen.

The screenshot shows a window titled "Sampling Setup" with a cyan background. At the top, it says "TREND GRAPH SET". The window is divided into several sections:

- Sampling Status:** A button labeled "Now Sampling" in blue text on a cyan background.
- Sampling Control:** Two buttons: "ON(Resume)" and "OFF", both in black text on a grey background.
- Sampled Data:** A button labeled "CLEAR" in black text on a grey background.
- Cycle and Max. Rec. Time:** A table with two columns: "Cycle" and "Max. Rec. Time". The rows are:

Cycle	Max. Rec. Time
5 sec	Approx. 4 hr
30 sec	Approx. 24 hr
1 min	Approx. 2 days
5 min	Approx. 10 days
- Current Cycle:** A button labeled "5 sec" in blue text on a cyan background.
- CLOSE:** A button in the bottom right corner with a dashed border.

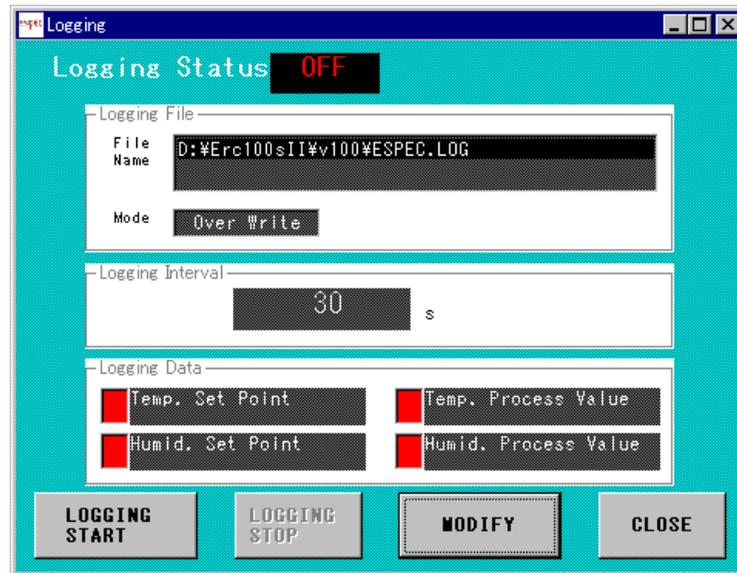
6.3 Logging

This screen shows the logging file settings, however It is impossible to change the settings on this screen. Click MODIFY to change the settings.

If logging is executed, it will be interrupted when this screen is closed.

The error message will appear if you specify a wrong file name, for example, no drive is specified or the file name is empty.

This trouble does not cause any wrong effect to other functions of ERC-100SII nor the instrumentation.



The screenshot shows a window titled "Logging" with a cyan background. At the top, it displays "Logging Status" followed by a black box containing the word "OFF" in red. Below this, there are three main sections:

- Logging File:** A text box labeled "File Name" contains "D:\Erc100sII\v100\ESPEC.LOG". Below it, a "Mode" dropdown menu is set to "Over Write".
- Logging Interval:** A text box contains the number "30" followed by a small "s" for seconds.
- Logging Data:** A section with four checkboxes, each with a red square to its left. The checkboxes are labeled: "Temp. Set Point", "Temp. Process Value", "Humid. Set Point", and "Humid. Process Value". All checkboxes are currently unchecked.

At the bottom of the window, there are four buttons: "LOGGING START", "LOGGING STOP", "MODIFY" (which has a dashed border), and "CLOSE".

6.3.1 Logging Set

This screen is to set conditions of the logging file.

Logging interval is basically periodical per setting time (30 to 3600 sec.) but sometimes it will become uneven or delay per setting time due to the multi-task processing of Windows, especially when other application that has a heavy load runs on the same PC.

The screenshot shows a Windows-style dialog box titled "Logging Set". It contains the following elements:

- Logging Interval:** A text input field containing "30" followed by "s". To the right, it says "(30 to 3600)". A "CLEAR" button is located to the right of the input field.
- Logging Data:** Three radio buttons are present: "SP / PV" (which is selected), "Set Point", and "Process Value".
- Logging File:** A text input field containing the path "D:\\$Erc100sII\%v100\ESPEC.LOG". A "VIEW" button is to the right of the text field.
- Save Style:** Two radio buttons: "Over Write" (selected) and "Append".
- Buttons:** "OK" and "CANCEL" buttons are located at the bottom center of the dialog.

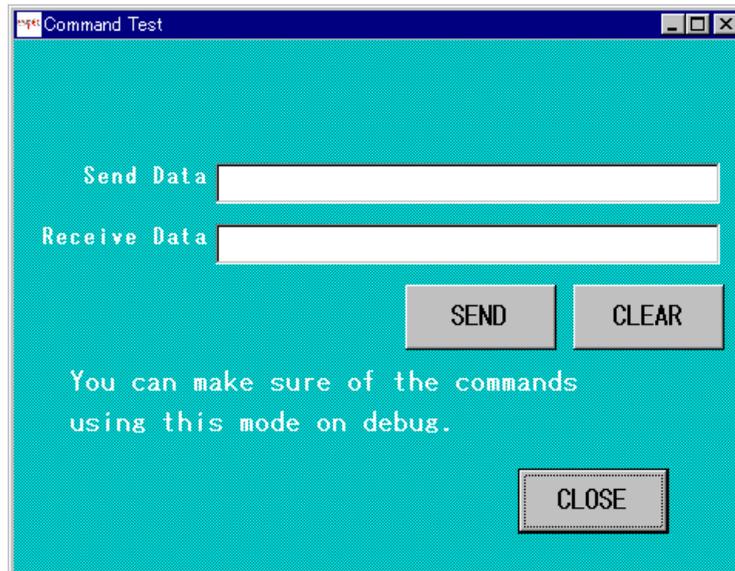
6.4 Alarm Monitor

This screen shows the latest information of alarm occurred to the chamber. It indicates only the current total number of alarms and their specific number, not the details nor the history.



6.5 Command Test

It is possible to test the communication command of P-instrumentation here. Although the screen shows "NA..." when the command is incorrect, this does not cause any trouble to the instrumentation nor ERC-100SII.



6.6 Communication Set

Settings on this screen besides communication port must be same as the instrumentation's. Communication port setting is unique to ERC-100SII, that is, the instrumentation does not have this setting.

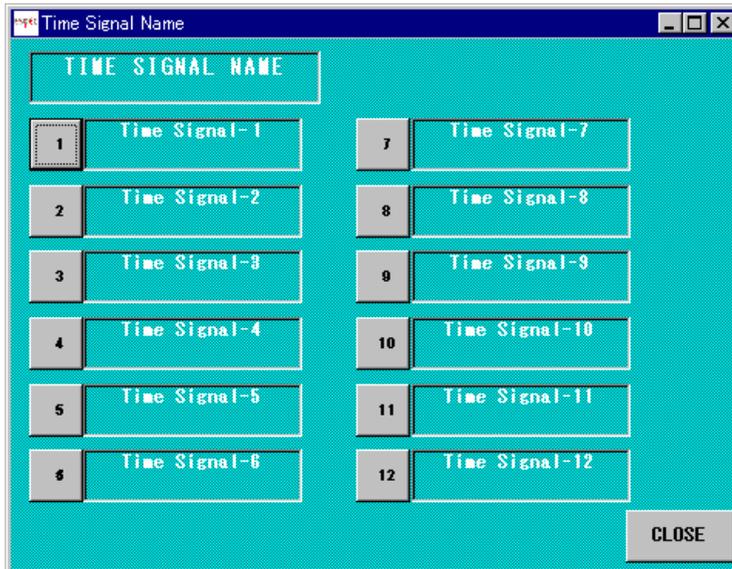
The screenshot shows a dialog box titled "Communication Set" with a blue title bar. The dialog is set against a light blue background and contains three main sections, each with a title and a set of radio button options:

- Communication Speed:** Three radio buttons are present: "4800", "9600" (which is selected), and "19200".
- Delimiter:** Three radio buttons are present: "CR/LF" (which is selected), "CR", and "LF".
- Communication Port:** Four radio buttons are present: "Com Port 1" (which is selected), "Com Port 2", "Com Port 3", and "Com Port 4".

At the bottom of the dialog, there are two buttons: "OK" and "CANCEL".

6.7 Time Signal Name

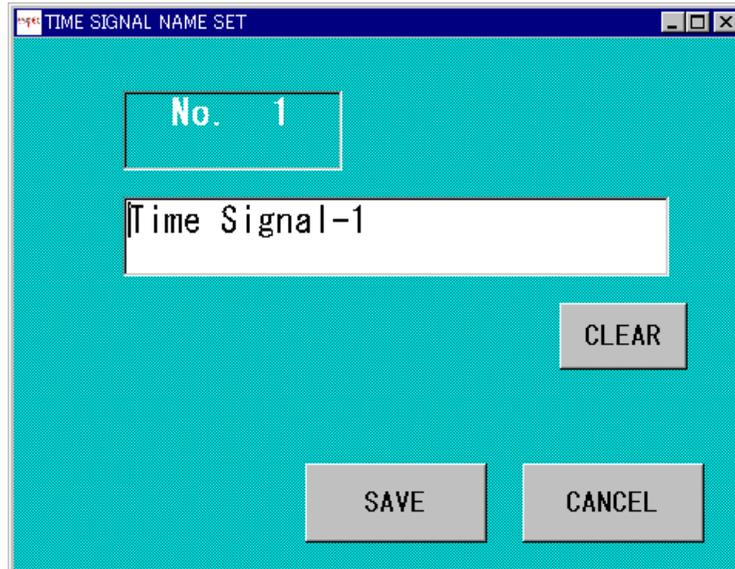
Time signal name here does not link with the instrumentation's.



6.7.1 Time Signal Name Set

Max. 14 characters are acceptable.

In case of no character input, the name will be "Time Signal-n."(n=1-12)



TIME SIGNAL NAME SET

No. 1

Time Signal-1

CLEAR

SAVE CANCEL

6.8 Input Password

It is required to input the preset password in order to display the Property screen. Regardless of the entry password of ERC-100SII, any one of the two, a customer password (Initial setting: 0000), a demonstration password "espec" is acceptable.



6.8.1 Property

This screen is to set property of ERC-100SII itself.

It is also possible to check the version of ERC-100SII.

Font and size of characters are based on the OS being installed ERC-100SII.

Time signal option setting of ERC-100SII is completely independent from that of P-instrumentation.

Therefore, ERC-100SII cannot detect time signal options set in the instrumentation, and vice versa.

Property

ERC-100SII v1.00 Copyright(C) ESPEC Corp.

User Password
0000 CHANGE PASSWORD

Font
MSゴシック 12 SIZE

Temp. range in graph
-100 c to 100 c

Language
 Japanese English

Chamber Type
 Temp. only Temp. / Humi.

TIME SIGNAL
 1 2 3 4 5 6
 7 8 9 10 11 12

Size of Window
Length 6500 Width 9000
X0 500 Y0 500

ERC-100SII END
 Chamber Power OFF Hot Chamber Power OFF

OK

6.8.1.1 Password

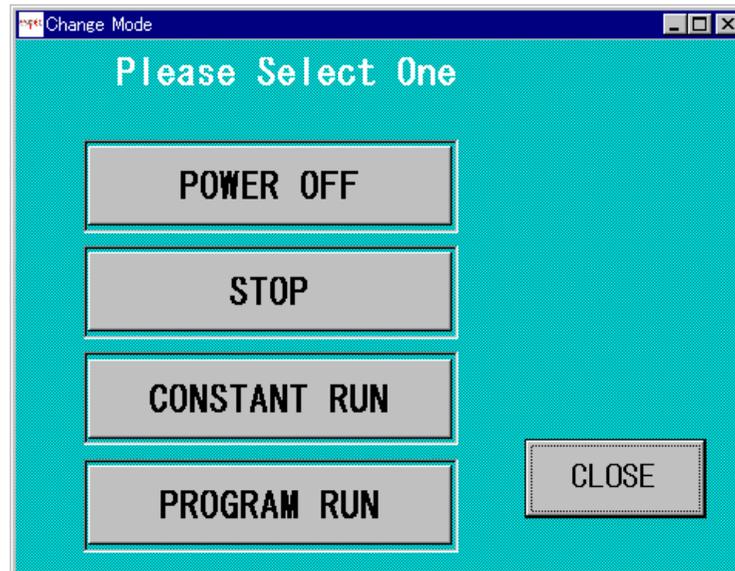
This screen is to change the customer password.
Input exactly 4 characters consist of alphabet and number.

The screenshot shows a window titled "Password" with a cyan background. At the top, there is a white box containing the text "PASSWORD SET". Below this, centered, is another white box with the text "Input Password". Underneath that, the following text is displayed: "(Password must be 4 characters long with at least one alpha and one numeric character)". Below the text is a white rectangular input field. At the bottom of the window, there are two buttons: "OK" on the left and "CANCEL" on the right.

7. Change Mode

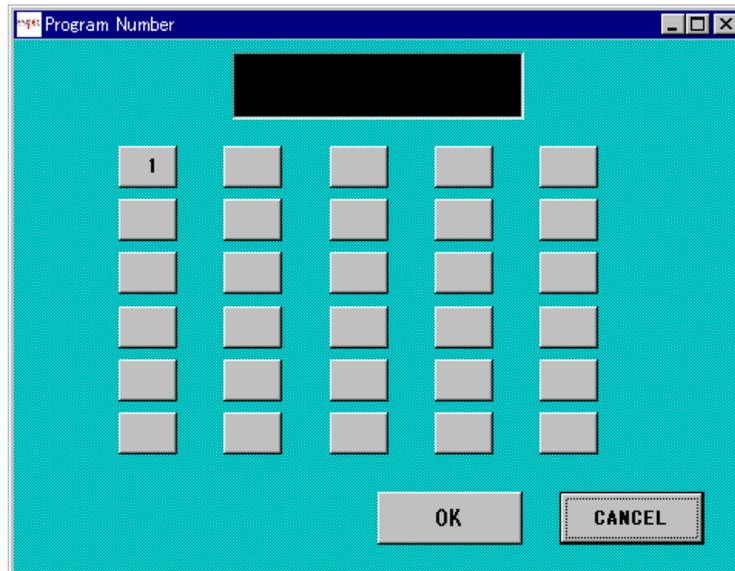
the instrumentation.

ERC-100SII can set or monitor the chamber status as long as the chamber breaker is ON even if the instrumentation is OFF.



8. Program Number

The screen shows the program number registered in P-instrumentation.
P-instrumentation starts the program operation when the program number is chosen on this screen.



9. Select File

This screen appears when logging file is set or the location of the program list is saved. Extensions such as "txt, log, pgm" are prepared but any extension is acceptable. Note that ERC-100SII tells no alarm message of overwriting. When the set directory does not exist, the error message will come up later on. When the set file name does not exist, the file will be made later on.

