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.
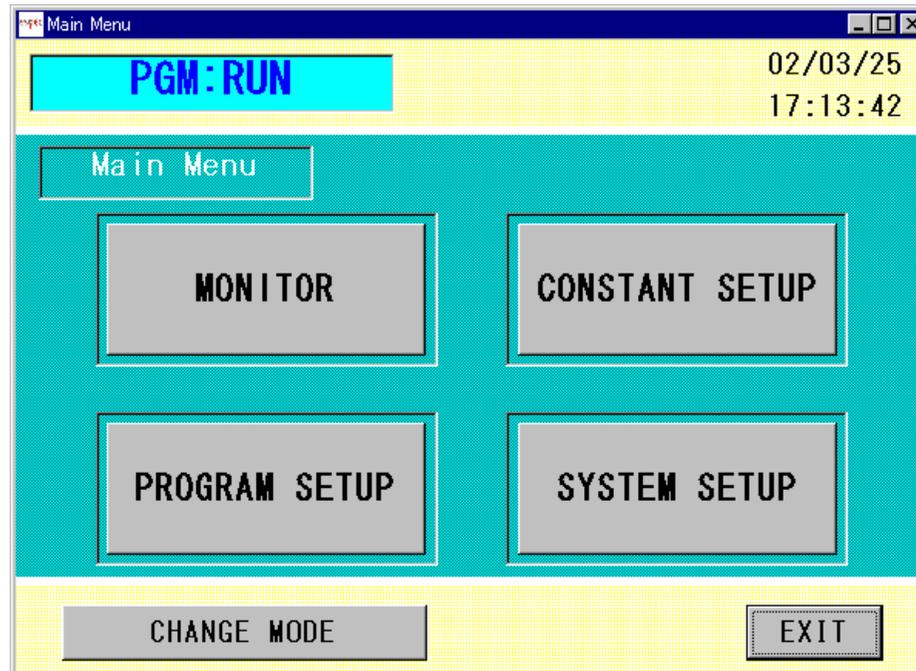
3. Monitor

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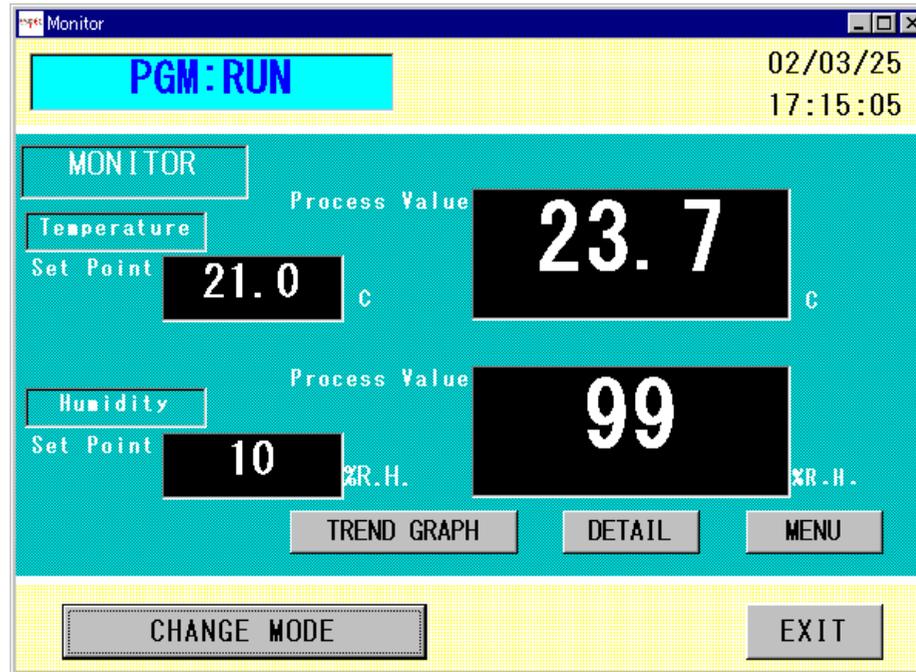
3.1 Trend Graph

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)
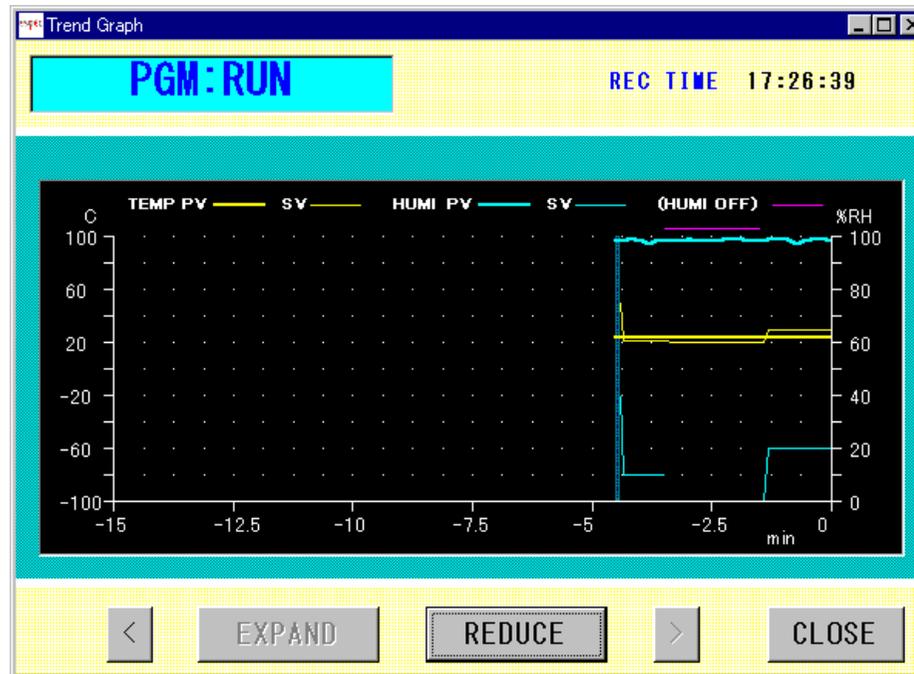
3.2 Program Index

This screen appears only during the program is operated.
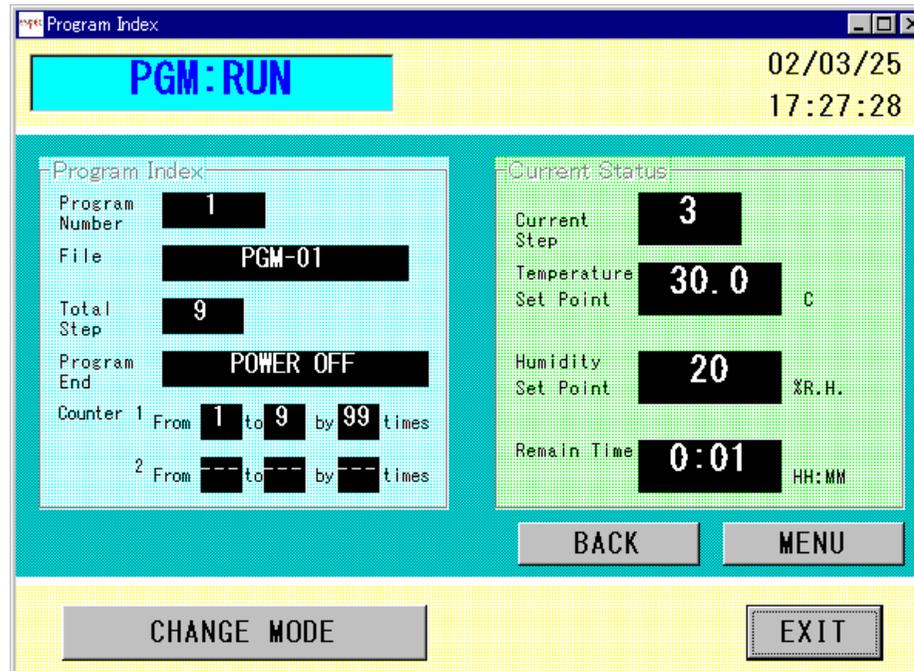
4. Constant Setup

This screen is to set the TEMP SV and HUMI SV of the constant operation and also the humidity control setting.
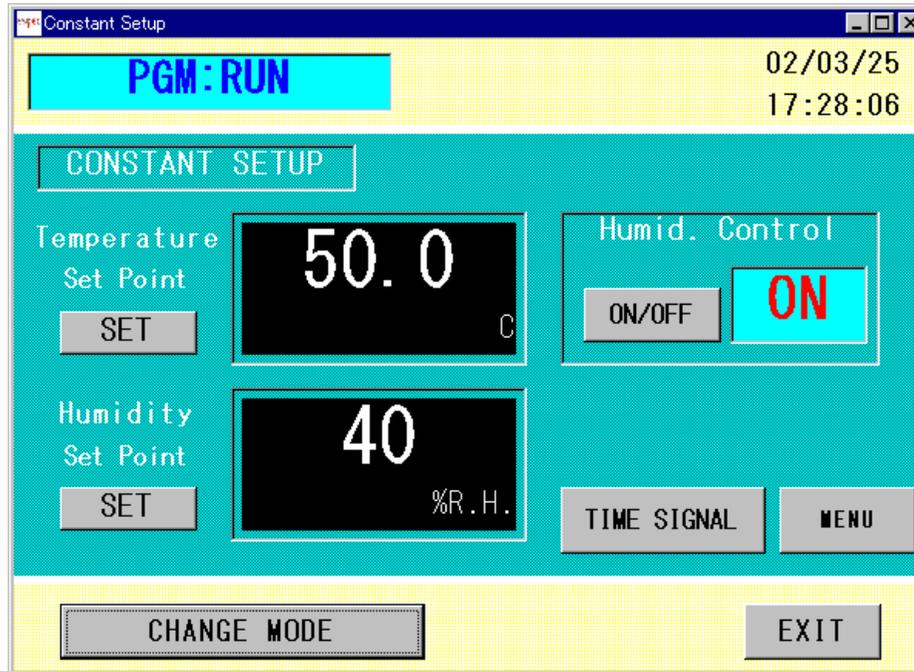
4.1 / 4.2 Set Point View

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.
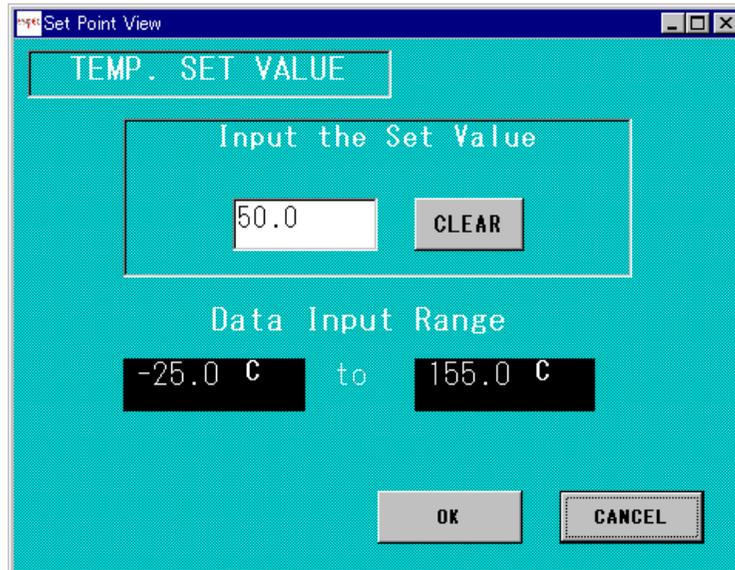
4.3 Time Signal

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.

5. Program view

No.1 shows RAM program (editable by customers).
No. 2 to 30 cannot be used.
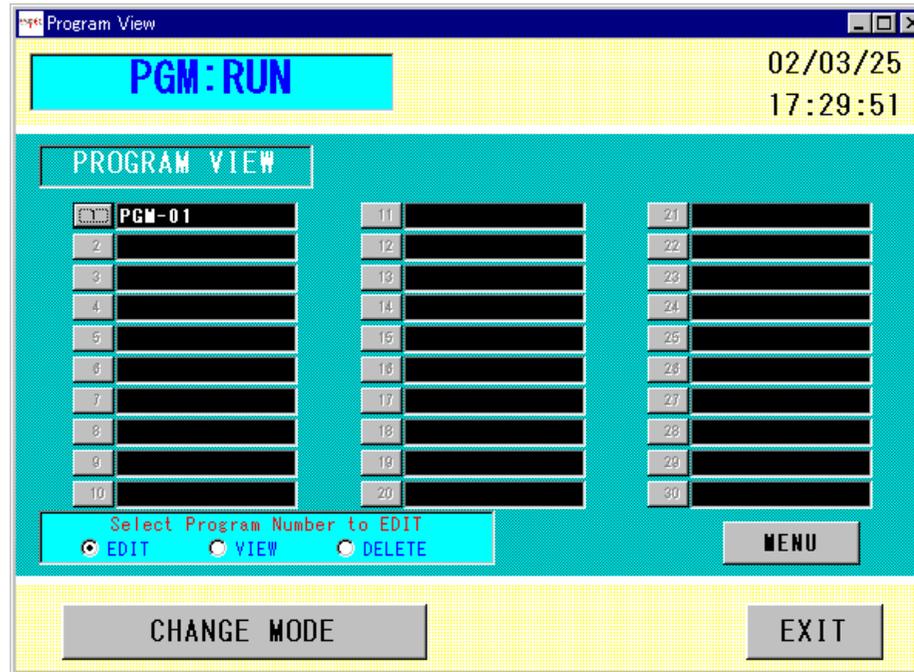
5.1 Program Editor

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.

5.1.1 Detail (Time Signal Set)

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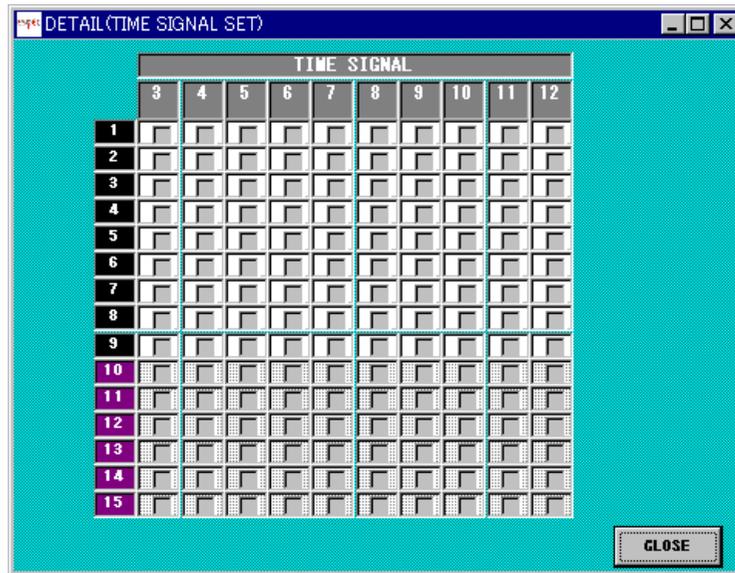
5.2 Program List

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.

Program List

File

PGM-01

Program End
- ● POWER OFF
- ○ CONSTANT
- ○ HOLD
- ○ Next Program

Counter1

1 to 9   99
times

Counter2

--- to ---   ---
times

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

SAVE   DETAIL   PRINT OUT   CLOSE

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.

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.
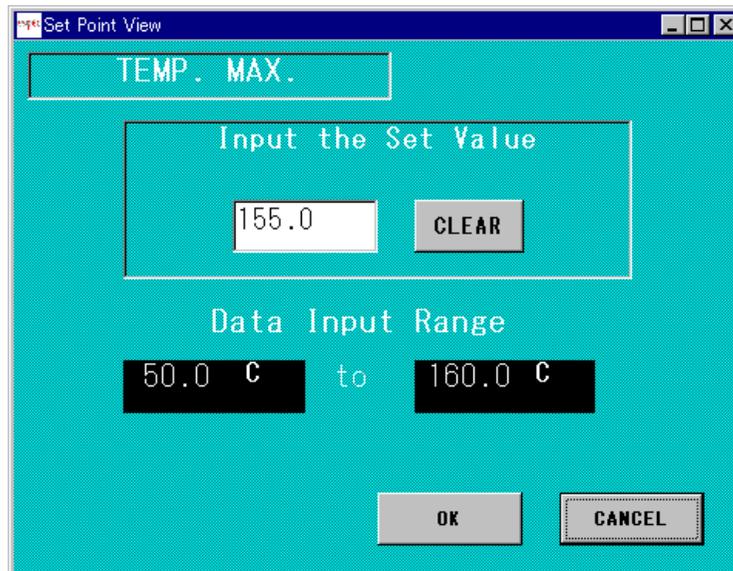
6.2 Sampling Setup

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.

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.

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.

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.
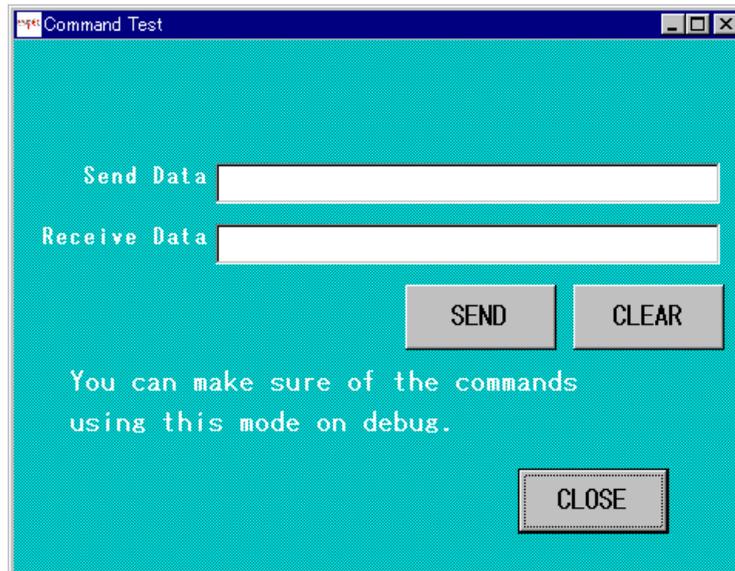
6.6 Communication Set

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.

6.7 Time Signal Name

Time signal name here does not link with the instrumentation's.
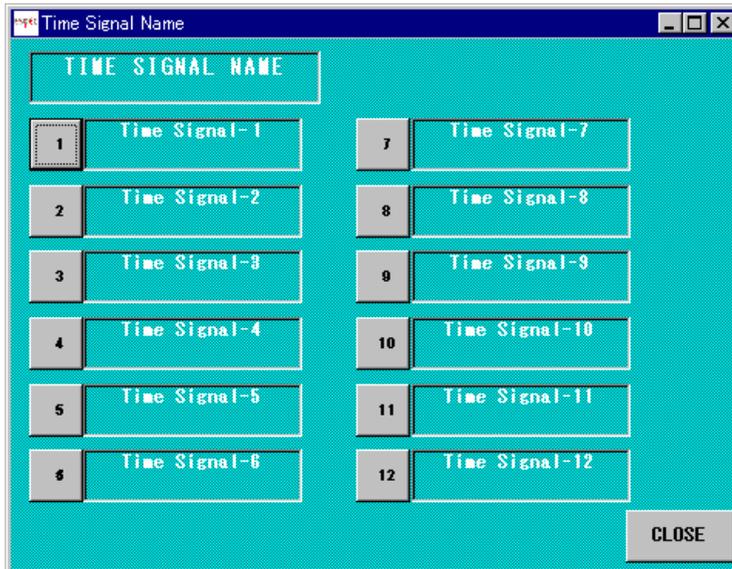
6.7.1 Time Signal Name Set

Max. 14 characters are acceptable.
In case of no character input, the name will be "Time Signal-n."(n=1-12)
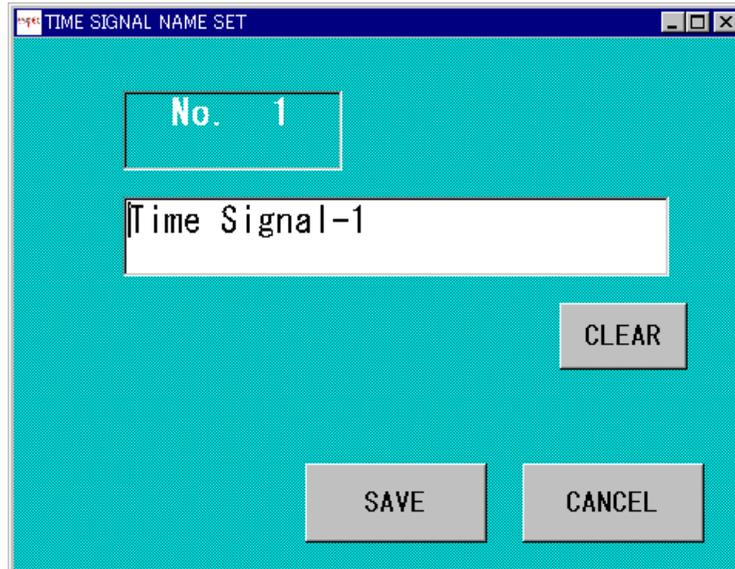
6.8 Input Password

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.

6.8.1.1 Password

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

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.
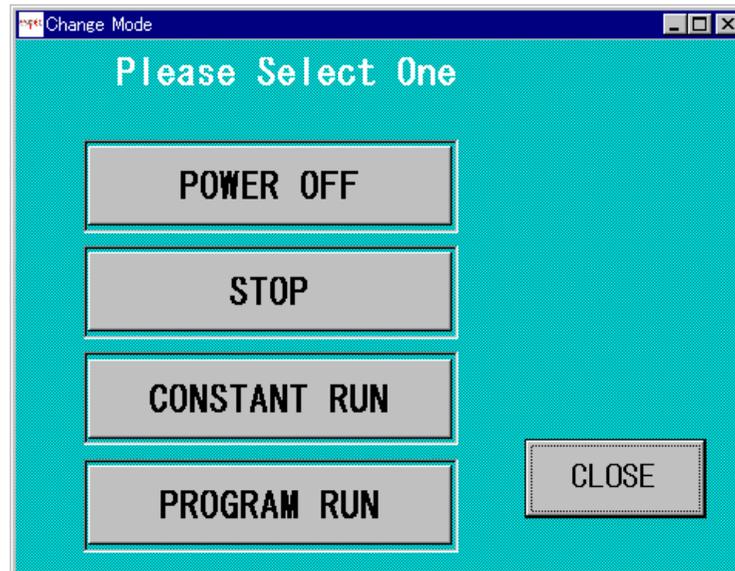
8. Program Number

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.
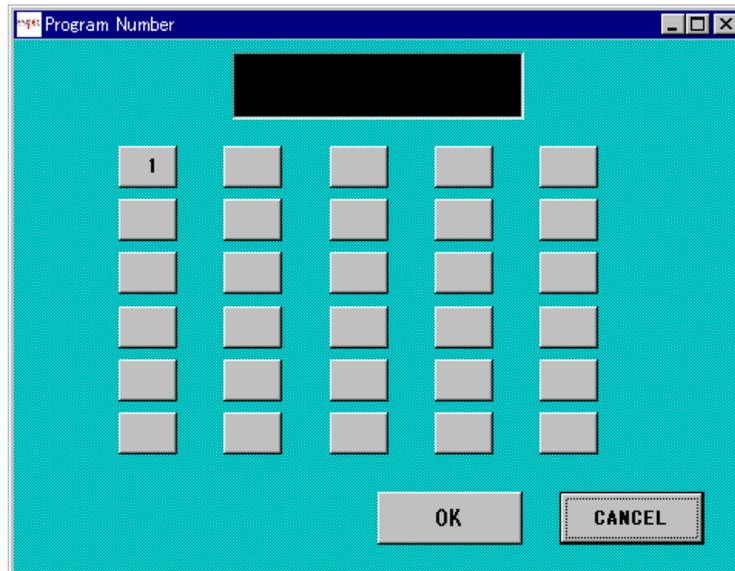
9. Select File

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.