

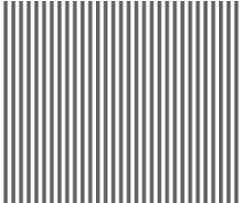
**CHINO**

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**Parameters Programming Software**

**PASS**

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 **INSTRUCTIONS**

Thank you for your purchase of parameters programming software "PASS".  
Please read this instruction manual without fail for using this software correctly and safely and also preventing troubles in advance.

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**Notice**

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**CHINO**

# — CONTENTS —

<b>1. OUTLINE .....</b>	<b>1</b>
<b>2. INSTALLATION AND UNINSTALLATION ..</b>	<b>2</b>
2-1 Installing.....	2
2-2 Uninstalling .....	3
<b>3. STARTING UP.....</b>	<b>4</b>
3-1 How to start.....	4
3-2 Exiting .....	4
<b>4. SCREEN OPERATION.....</b>	<b>5</b>
4-1 Operation at starting up .....	5
4-1-1 Communication parameter selection.....	5
4-2 “Instrument Selection” .....	6
4-3 “Programming Menu” .....	7
4-3-1 Programming Menu for AL3000/AH3000 .....	7
4-3-2 Programming Menu for BR series .....	8
4-3-3 Programming Menu for SE3000.....	9
4-3-4 Programming Menu for LT series .....	10
4-3-5 Programming Menu for JU .....	11
4-3-6 Programming Menu for KE3000.....	12
4-4 Basic operation for each screen .....	13
4-4-1 Operation for a programming screen with the table format .....	13
4-4-2 Operation for setting screen with selecting style .....	14
4-5 File Storing (SAVE) .....	15
4-6 Reading a file (LOAD) .....	15
4-7 Data List.....	16
<b>5. Cautions.....</b>	<b>17</b>
5-1 How to deal with an abnormal quit .....	17
5-2 Cautions for upgrading the version.....	17

# 1.OUTLINE

This software must be installed into the hard disk of your computer just as you install other application software for Windows. This software cannot be started from a CD-ROM.



## CAUTION

“System Requirement”, “Installation Procedure” and “How To Start” are explained below.

## [System Requirements]

### <Hardware>

CPU	Pentium II 300MHz or faster
Memory	At least 48MB (64MB recommended)
Disk drive	CD-ROM drive : 1 drive or more (for installing PASS) Hard disk drive : 1 drive (at least 100MB of free space) or more
Communications port	*Connection with MODBUS instruments Either 1 port of the communication ports (COM1 to COM9) supported by Windows. *Connection with Ethernet instruments LAN port (10base-T) which Windows is supporting. *Connection with USB instruments USB port which Windows is supporting.

### <Software>

OS Windows98/Me  
WindowsNT4.0/2000/XP Home/XP Pro

**\* Internet Explorer 4.0 or later version is required to display the Help Contents.**

## [Applied instruments]

By connecting the following instruments and a personal computer via a communications interface, Parameters are programmed and displayed on a computer screen.

### MODBUS

- Graphic recorder BR series
- 180mm hybrid recorder AH300 series
- 100mm hybrid recorder AL3000 series
- Field scanner SE3000 series
- Digital indicating controller LT series
- Thyristor regulator JU
- NETWORK LOGGER KE3000 series

### Ethernet

- Graphic recorder BR series
- 180mm hybrid recorder AH300 series
- 100mm hybrid recorder AL3000 series
- Field scanner SE3000 series
- NETWORK LOGGER KE3000 series

### USB

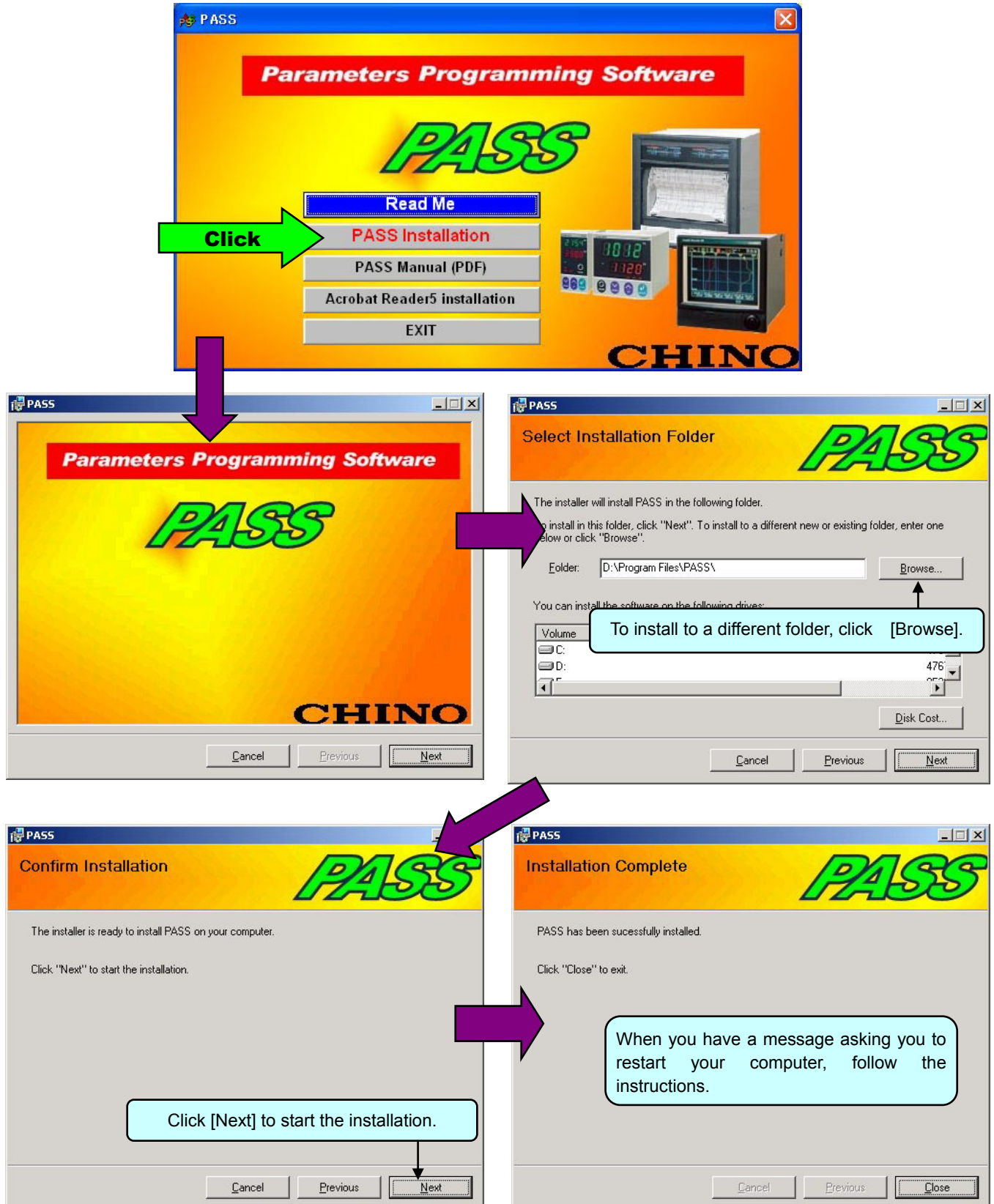
- NETWORK LOGGER KE3000 series

**Caution:** Each instrument requires a communications interface (RS-232C, /RS-422A/RS-485, Ethernet or USB)

# 2.INSTALLATION AND UNINSTALLATION

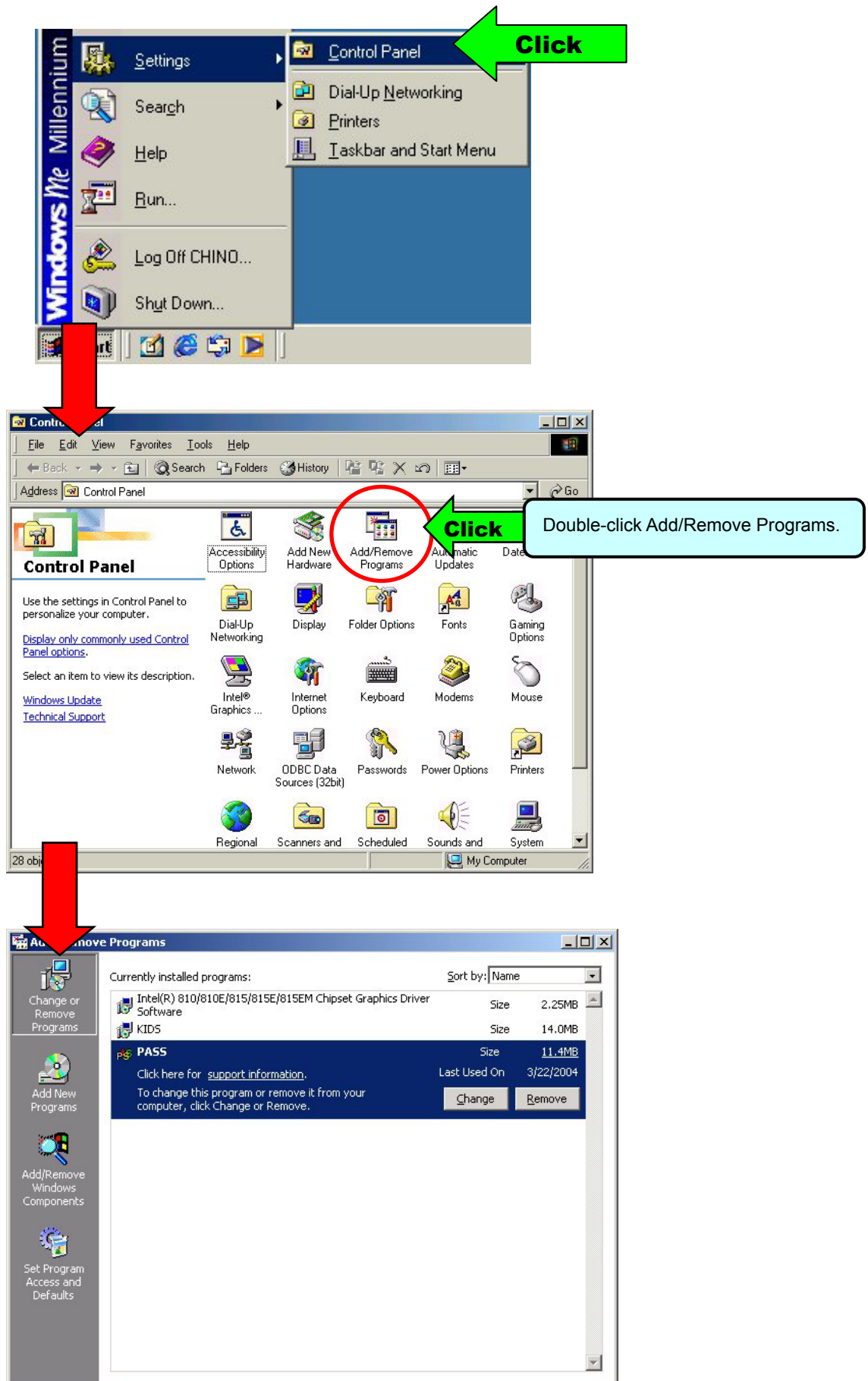
## 2-1 Installing

By selecting [English] in the Menu window, the window shown below will appear.  
Click [PASS Installation].



## 2-2 Uninstalling

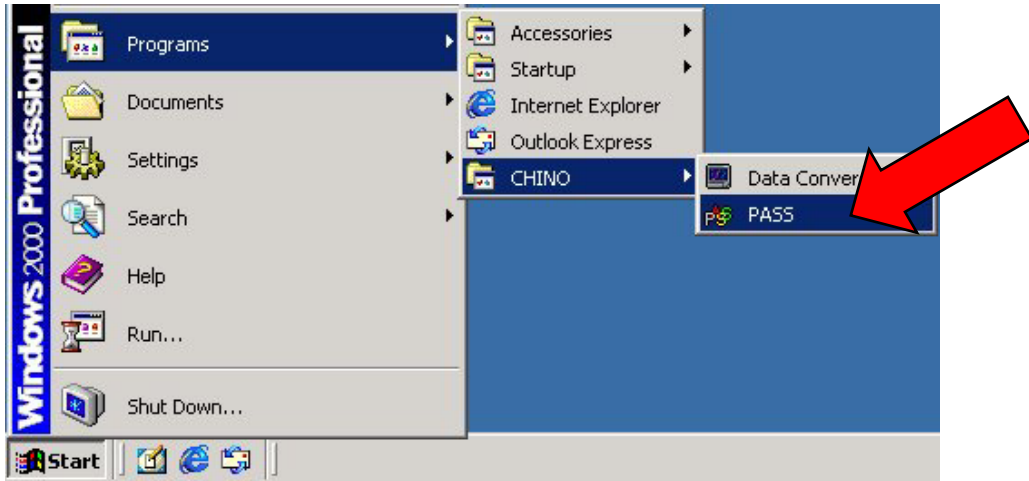
Click the Start button, point to Settings, and then click Control Panel.



# 3.STARTING UP

## 3-1 How to start

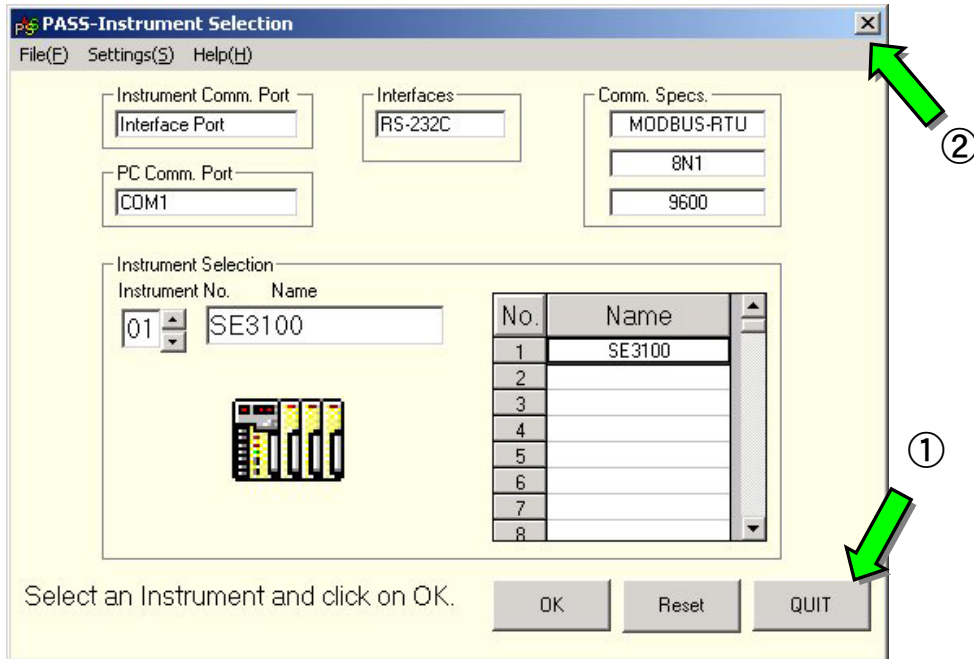
To start the program, click [Start] button, point to [Programs], point to [CHINO], and then click [PASS].



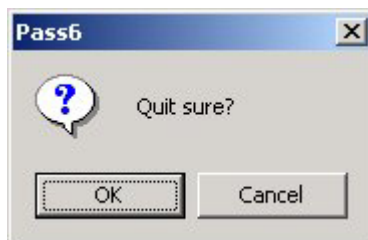
## 3-2 Exiting

To quit the PASS,

(1) click [Quit] on the "Instrument Selection", or (2) click [X] in the right corner of the title bar.



In either case, a confirmation message to quit will appear. Click OK to quit PASS.



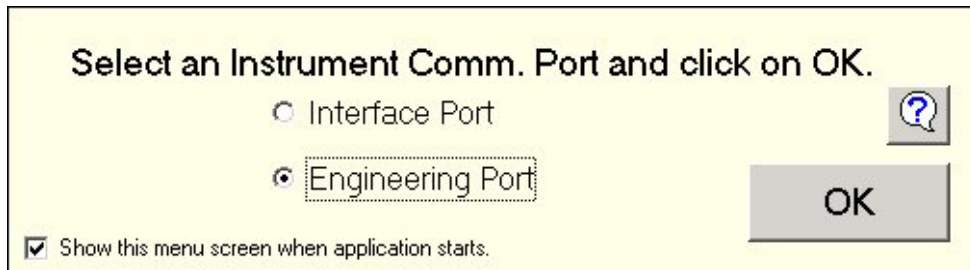
# 4.SCREEN OPERATION

## 4-1 Operation at starting up

When you start PASS, the “Communication parameter selection” dialog box will appear.

### 4-1-1 Communication parameter selection

The selection of two kinds of parameters is required in the “Communication parameter selection” dialog box.



**(1) Communication Port on Instruments** . . . Select the programming via the “Communication Interface for PC” or the “Engineering Port” on the instruments applied.

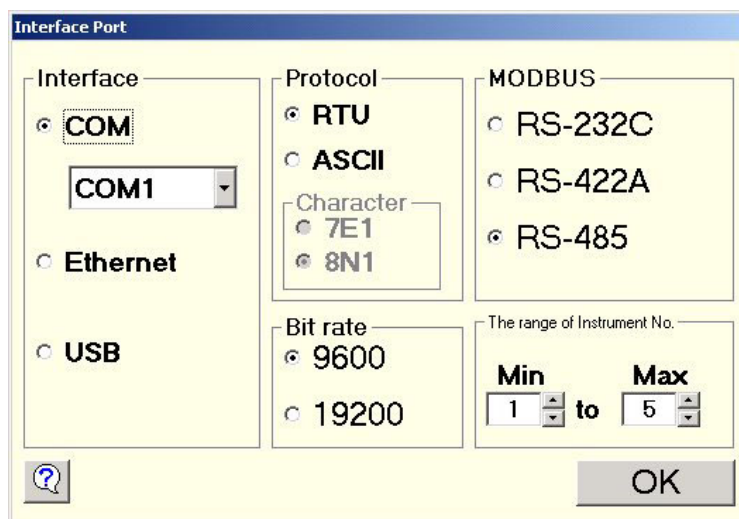
<b>⚠ Caution</b>	For the programming via the “Engineering Port”, an exclusive cable (type: RZ-EC1) is required. Programming in the instruments is also required. Refer to the manuals of the communications interfaces of the instruments.
------------------	--

### **(2) Communication Port on PC**

- MODBUS . . . Select the port No, protocol, bit rate for the RS232C of your personal computer  
    ※Programming by PASS should be performed either in RTU mode or ASCII mode of the MODBUS protocol.

<b>⚠ Caution</b>	The programming by PASS cannot be performed with CHINO’s “Private protocol”. When KIDS, CHINO’s data acquisition software, is being executed, the programming should be performed in RTU mode. Programming for the instrument is also necessary by referring to the manual of the communications interfaces of the instrument.
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- Ethernet . . . Select the IP address, port No.
- USB . . . Select the address.



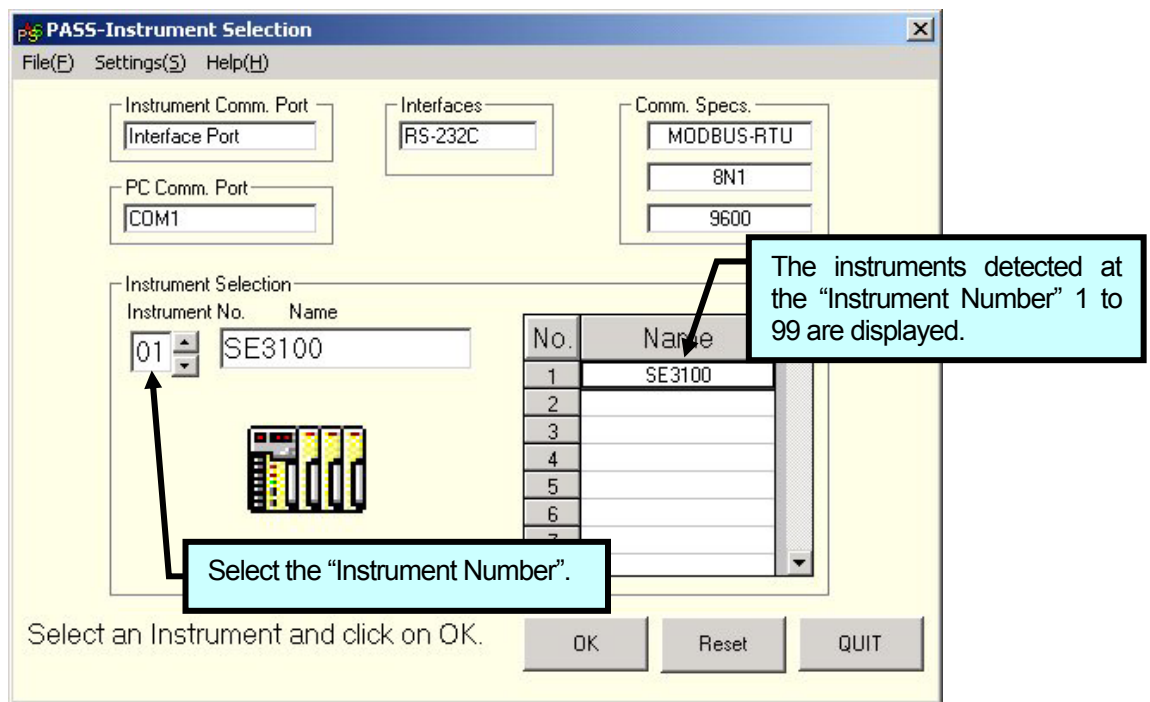


## 4-2 “Instrument Selection”

When the above programming has been completed, the instrument to be connected is automatically detected. When RS232C or “Engineering Port” is selected, detection will be carried out only at the “Instrument Number” 1. In case of RS422A, Rs485 or USB, the instruments are detected in the range entered in Para. 4-1-1 from 1 to 99. For Ethernet, IP addresses only are detected.

The detection result is displayed on the “Instrument Selection” screen. Select the instrument with the “Instrument Number” to be programmed and click “OK”.

In case the instrument to be programmed is not displayed, check (1) communications cable and (2) communications settings (both for the instrument and the personal computer), then click “Reset”.



At the setting (S) on the menu bar;

[Read from instrument] is selected, current parameters are read from an instrument and the menu screen for each model will appear. Click the button of the parameter item required to program. (Refer to paragraphs after Para. 4-3-1.)

[Read from file] is selected, instrument parameters are read from a file created by [SAVE] on the menu for each model and the menu screen will appear. Click the button of the parameter item required to program. (Refer to paragraphs after Para. 4-3-1.)

**\* As the parameters are not read from an instrument, the initial startup becomes quicker.**



## 4-3 “Programming Menu”

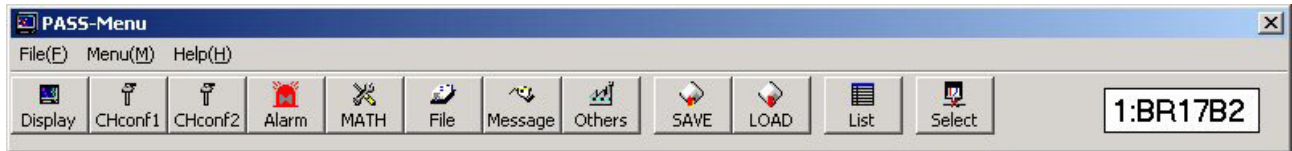
### 4-3-1 Programming Menu for AL3000/AH3000



The buttons and the related programming parameters are explained below.

Button	Programming Item
CHpara1	<b>“Channel Parameters 1” programming</b> (1)Input Kind (2)Range/Scale (3)RJ Internal/External (4)Alarm (5)Burnout
CHpara2	<b>“Channel Parameters 2” programming</b> (1)Tag (2)Engineering Unit (3)Color
REC	<b>“Printing Parameters” programming</b> (1)Chart Speed Periodic Data Printing Interval (2)Subtract Printing (3)Printing Format (Automatic Range-shift Printing, Compressed/Expanded Printing, Zone Printing)
Action	<b>“Printing and Operation”</b> (1)Feed (2)List Printing (3)Title Printing (4)Digital Data Printing (5)Title Characters Programming (6)Message Printing (7)Message character programming <i>* (6) and (7) are available in pen-type instrument only.</i>
MATH	<b>“Mathematics Parameters” programming</b> (1)Communications Input (2)Maths Functions (3)Humidity (Humidity/Temperature Calculation) <i>*The maths functions available to be programmed depend on the specifications of instruments.</i>
OTHER	<b>“Other Parameters” programming</b> (1)Temperature unit (°C, °F) (2)High-speed Trace Printing (Dotting type) (3)Alarm Dead-band (4)Instrument Time (5)Interface Specification (6)P.O.C (7)Alarm relay (8)Remote Contact (9)Digital filter (10)Linear <i>*The maths functions available to be programmed depend on the specifications of instruments.</i> <i>* (5) can be programmed only from the “Engineering Port”.</i> <i>* (6) to (9) are available in pen-type instruments only.</i>
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading programmed parameters file from a floppy disk or a hard disk.</b> Click this button when reading the programmed parameters stored at the “SAVE”. * With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the [Batch transmission] in the LIST.
LIST	<b>Display of instrument parameters list</b> (1)Parameters printing (printer, printing form selection, preview) (2)File saving (saving with Excel or TXT or CSV format) (3)Batch transmission (The parameters displayed are sent to an instrument collectively.)
Select	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.

## 4-3-2 Programming Menu for BR series



The buttons and the related programming parameters are explained below.

Button	Programming Item
Display	<b>“Display Parameters” programming</b> (1) Screen Select ion (2) Group Display (3) Trend Display (4) Bar-graph Display (5) Data Display
CHconf1	<b>“Channel Configuration 1” programming</b> (1) Input Kind (2) Range/Scale (3) RJ Internal/External (4) Burnout
CHconf2	<b>“Channel Configuration 2” programming</b> (1) Tag (2) Engineering Unit (3) Color (4) Display Scale
Alarm	<b>“Alarm” programming</b> (1) Type (2) Set-point (3) Relay Number, etc.
MATH	<b>“Mathematics Parameters” programming</b> (1) Communications Input (2) Maths Functions (3) Humidity (Humidity/Temperature Calculation), etc. <i>*The maths functions available to be programmed depend on the specifications of instruments.</i>
File	<b>“File” programming</b> Program up to 5 files. (1) Type (2) File Name (3) File Capacity (4) Storing Channels (5) Trigger Condition (6) Daily Report Programming
Message	<b>“Message” programming/operation</b> (1) Character Programming (2) Printing Operation
Others	<b>“Other Parameters” programming</b> (1) Guidance Language (2) Temperature Unit (°C, °F) (3) Clock Setting (4) Time Format (5) Screen Saver (6) Brightness (7) Operator Access Entry (8) Remote Contacts (9) Status Output (10) Communication 1 (11) Communication 2 (12) Instruments to be connected with Communication 2 <i>* The functions available to be programmed depend on the specifications of instruments.</i> <i>* (10) can be programmed only from the “Engineering Port”.</i>
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading a programmed parameters file from a floppy disk or a hard disk.</b> With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the the [Batch transmission] in the LIST.
LIST	<b>Display of instrument parameters list</b> (1)Parameters printing (printer, printing form selection, preview) (2)File saving (saving with Excel or TXT or CSV format) (3)Batch transmission (The parameters displayed are sent to an instrument collectively.)
Select	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.

## 4-3-3 Programming Menu for SE3000



The buttons and the related programming parameters are explained below.

Button	Programming Item
CHpara	<b>“Channel Configuration” programming</b> (1) Input Kind (2) Range/Scale (3) RJ Internal/External (4) Alarm (5) Burnout
SUB	“Subtract Parameters” programming
MATH	<b>“Mathematics Parameters” programming</b> (1) Maths Functions (2) Humidity (Humidity/Temperature Calculation), etc.
Other	<b>“Other Parameters” programming</b> (1) Temperature Unit (°C, °F) (2) Alarm Deadband (3) Interface Specification <i>*The functions available to be programmed depend on the specifications of instruments.</i> <i>* (3) can be programmed only from the “Engineering Port”.</i>
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading a programmed parameters file from a floppy disk or a hard disk.</b> With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the [Batch transmission] in the LIST.
LIST	<b>Display of instrument parameters list</b> (1) Parameters printing (printer, printing form selection, preview) (2) File saving (saving with Excel or TXT or CSV format) (3) Batch transmission (The parameters displayed are sent to an instrument collectively.)
Select	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.

## 4-3-4 Programming Menu for LT series



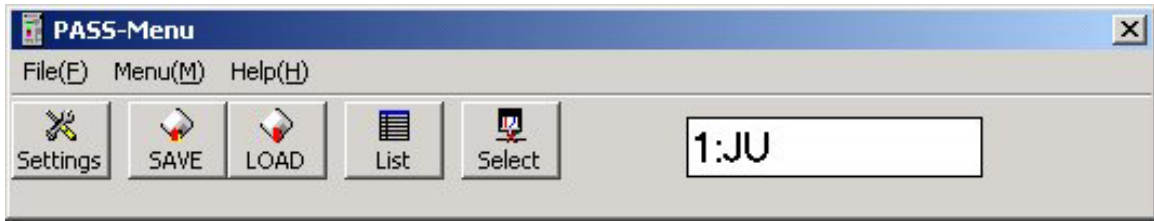
The buttons and the related programming parameters are explained below.

Button	Programming Item
RUN	<b>“RUN parameters” programming</b> (1)SV selection (2)SV, PID, Event Setting (3)RUN/READY (4)AUTO/MANUAL Operation (5)Auto Tuning (6)Target value filter (7)Key lock
Input	<b>“Input parameters” programming</b> (1)Input Kind (2)Temperature Unit (3)Range/Scale (4)PV,SV dot (5)Sensor correction (6)Digital filter (7)Deviation dead-band (8)Burnout
Control	<b>“Control parameters” programming</b> (1)SV,PID,Dead-band (2)Ramp, Ramp unit,PV start (3)SV limit (4)ARW, Output preset
EVENT	<b>“Event parameters” programming</b> (1)mode, Dead-band, Phase, Delay (2)Event Setting, Stand-by (3)Output at Ready
OUTPUT	<b>“Output parameters” programming</b> (1)output limit, Variation (2)Feed Back (3)Power recovery action (4)Control action (5)PV error output, Preset-out(Output at Ready), Pulse cycle
Option	<b>“Option parameters” programming</b> (1)Remote Contact (2)Transmission (3)Remote signal
OTHER	<b>“Other Parameters” programming</b> (1)Heat/Cool, Split (2)Cooling P, Cooling pulse cycle (3)Split Parameter
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading a programmed parameters file from a floppy disk or a hard disk.</b> With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the [Batch transmission] in the LIST.
LIST	<b>Display of instrument parameters list</b> (1)Parameters printing (printer, printing form selection, preview) (2)File saving (saving with Excel or TXT or CSV format) (3)Batch transmission (The parameters displayed are sent to an instrument collectively.)
SELECT	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.

\* For parameters covered by  , programming by LT200,/ LT300 or LT800 is disabled.

\*Depending on specifications of instruments, some parameter items cannot be programmed.

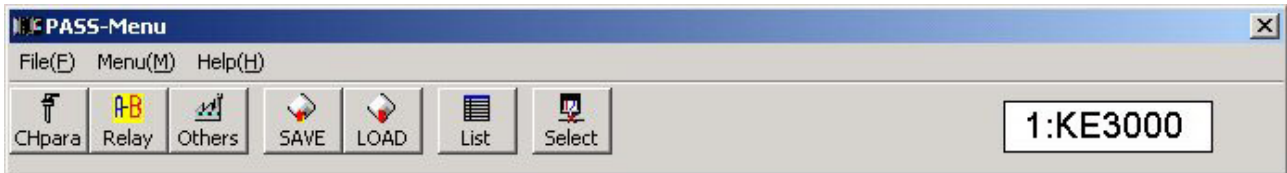
## 4-3-5 Programming Menu for JU



The buttons and the related programming parameters are explained below.

Button	Programming Item
Setting	<b>“Parameters” programming</b> (1)AUTO/MANUAL (2)Settings (3)Phase angle/Zero-cross (4)Current limit function (5)Disconnection alarm function (6)Key lock (7) Run/Stop
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading a programmed parameters file from a floppy disk or a hard disk.</b> With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the the [Batch transmission] in the LIST.
List	<b>Display of instrument parameters list</b> (1)Parameters printing (printer, printing form selection, preview) (2)File saving (saving with Excel or TXT or CSV format) (3)Batch transmission (The parameters displayed are sent to an instrument collectively.)
select	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.

## 4-3-6 Programming Menu for KE3000



The buttons and the related programming parameters are explained below.

Button	Programming Item
CHpara	<b>“Channel Configuration” programming</b> (1) Input Kind (2) Range/Scale (3) RJ Internal/External (4)Alarm (5) Burnout (6)Sensor correction (7)digital filter
Relay	<b>“Relay Output” programming</b> (1)Alarm bit mask (2)ON/OFF delay time (3)phase
Other	<b>“Other Parameters” programming</b> (1)USB address (2)Eng port Specification (3)interface Specification *(1) can be programmed only from the “Engineering Port” or “Communication 1”. *(2) can be programmed only from the “USB” or “Communication 1”. *(3) can be programmed only from the “Engineering Port” or “USB”.
SAVE	<b>Storing a programmed parameters file into a floppy disk or a hard disk.</b> Click this button when storing the programmed parameters read from an instrument into a floppy disk or a hard disk.
LOAD	<b>Reading a programmed parameters file from a floppy disk or a hard disk.</b> With this LOAD function, the parameters are only read and displayed on a personal computer. They are not sent to an instrument. To send the parameters to an instrument, carry out the “Send” function on each screen. For collectively sending all parameters to an instrument, use the the [Batch transmission] in the LIST.
LIST	<b>Display of instrument parameters list</b> (1)Parameters printing (printer, printing form selection, preview) (2)File saving (saving with Excel or TXT or CSV format) (3)Batch transmission (The parameters displayed are sent to an instrument collectively.)
Select	<b>Returning to the “Instrument Selection”</b> Click this button when quitting programming for an instrument, starting programming for another instrument.



## 4-4 Basic operation for each screen

Two kinds of programming, a table format and a selecting format, are available.

### 4-4-1 Operation for a programming screen with the table format

The followings are the procedure to operate the programming screen.

- (1) Click the cell where you want to change a parameter. (Entering of numeric values via the keyboard is enabled.)
- (2) Change a parameter on the programming menu or select a parameter from the list.
- (3) Send the reprogrammed parameters to the instrument by clicking on the "Trans" button.

[Example: CH parameters for KE3000]

	Input Kind	RJ	Range Low limit value	Range High limit value	Range D Pnt.	Scale Low limit value	Scale High limit value
		External	-200	1370			
CH 2	T	External	-200.0	250.0			
CH 3	V	External	0.00	5.00	2	0.00	5.00
CH 4	V	External	0.00	5.00	2	0.00	5.00
CH 5	V	External	0.00	5.00	2	0.00	5.00
CH 6	V	External	0.00	5.00	2	0.00	5.00
CH 7	V	External	0.00	5.00	2	0.00	5.00
CH 8	V	External	0.00	5.00	2	0.00	5.00
CH 9	V	External	0.00	5.00	2	0.00	5.00

#### **Caution**

Programming to the instrument will not be carried out without executing "Send (Trans)" operation.

After executing "Send" operation, the instrument cannot be returned to the condition with the previous parameters even if the "Cancel" button is pressed.

#### **Caution**

Observe the following cautions for programming.

- (1) With the programming window, spaces for several digits are prepared for Tag and Engineering unit, however, the effective number of characters is decided.
- (2) Engineering units are merely symbols. When the Engineering unit is changed from °C to °F, it has no effect on the temperature unit system.
- (3) When a decimal point place at the minimum side of the range and the scale is changed, a decimal point place at the maximum side of the range and the scale, and the related alarm setpoint will also be changed. Be sure to check this when you perform such a change.



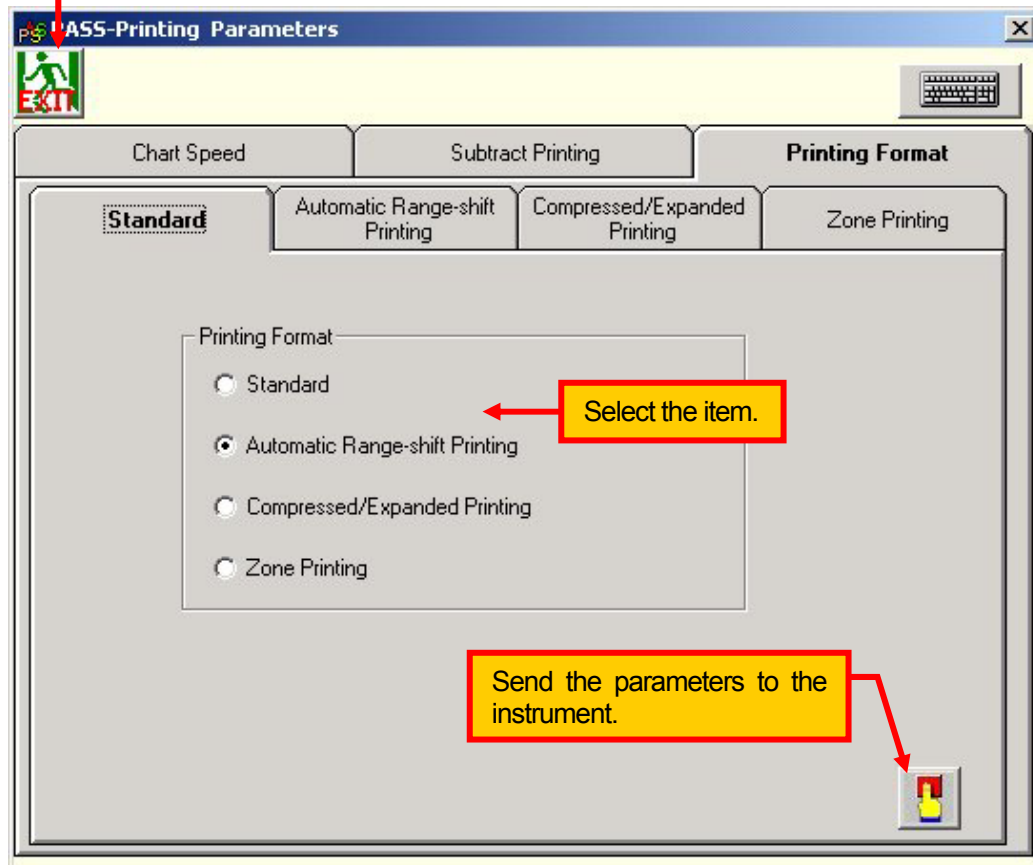
## 4-4-2 Operation for setting screen with selecting style

The followings are the procedure to operate the programming screen.


- (1) Click the item that you want to select.
- (2) Send the reprogrammed parameters to the instrument by clicking on the "Trans" button.

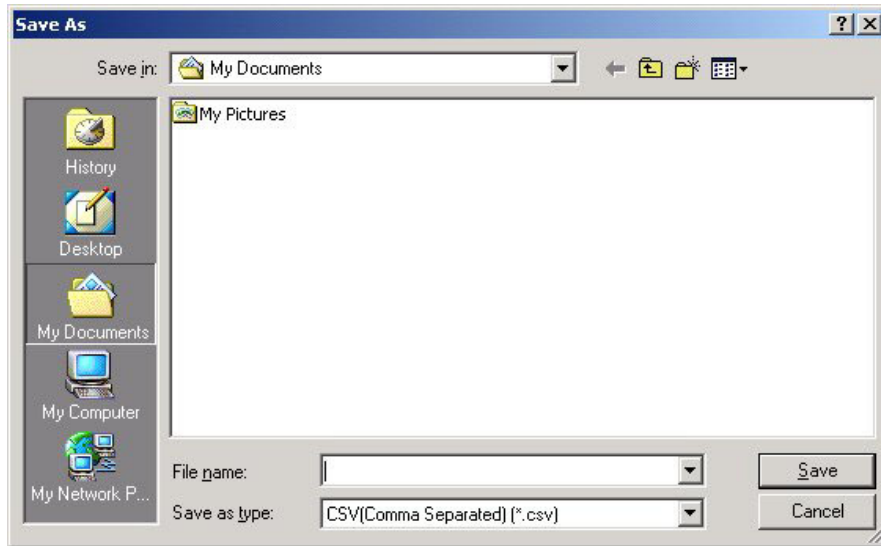
[Example: Recording formats for AL3000/AH3000]

Returns to the "Programming Menu".



## 4-5 File Storing (SAVE)


When the SAVE button  is clicked, the following window is displayed. Specify the name of the file and the place where the programmed parameters are to be stored. The programmed parameters are stored by clicking “SAVE”.

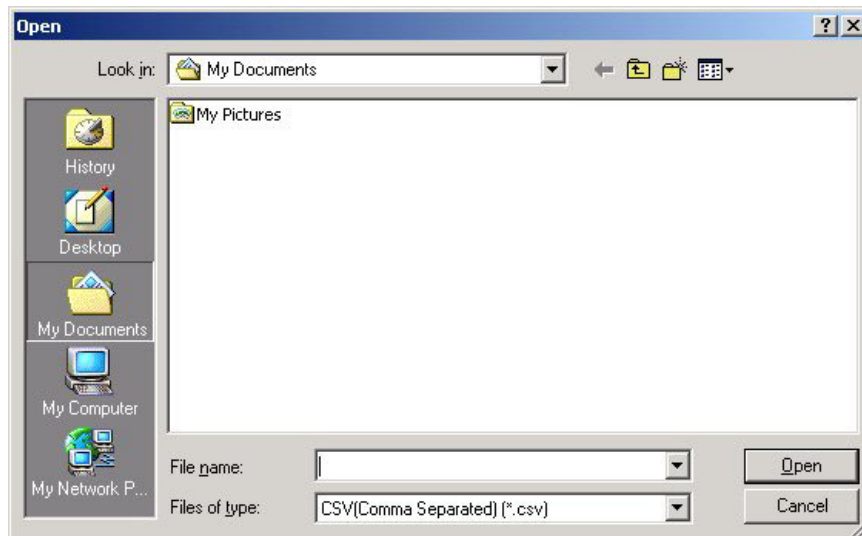


### **Caution**

Any file name may be chosen, however, extension is fixed to CSV.

## 4-6 Reading a file (LOAD)

When the LOAD button  is clicked, the following window is displayed. Specify the file name and the place where the programmed parameters have been stored. The programmed parameters are read out by clicking “OPEN”.

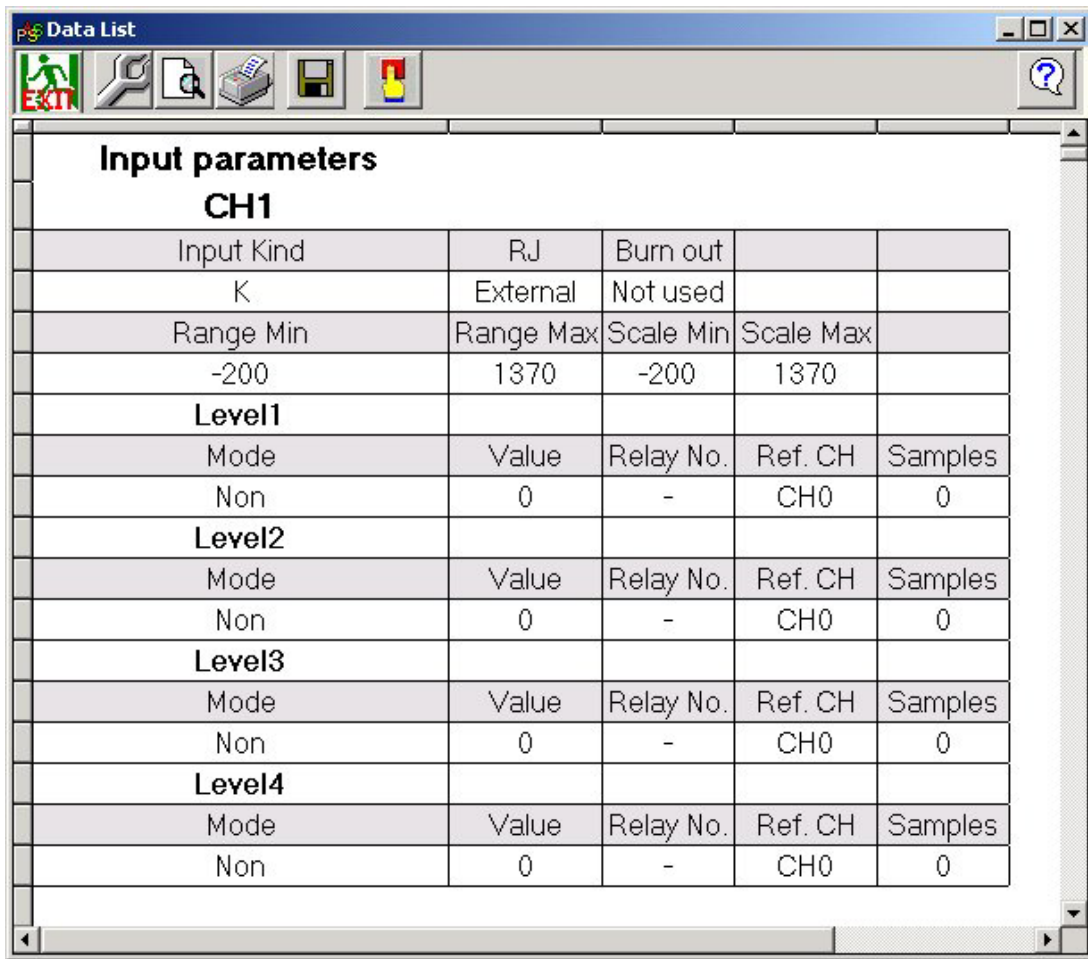


### **Caution**

Be sure to select the file stored with SAVE function.  
If any file other than the file stored with the SAVE function is selected or any alteration is done to a file stored with the SAVE function, PASS might quit.








# 4-7 Data List

By clicking this button  , the screen show below will appear.



Input parameters				
CH1				
Input Kind	RJ	Burn out		
K	External	Not used		
Range Min	Range Max	Scale Min	Scale Max	
-200	1370	-200	1370	
<b>Level1</b>				
Mode	Value	Relay No.	Ref. CH	Samples
Non	0	-	CH0	0
<b>Level2</b>				
Mode	Value	Relay No.	Ref. CH	Samples
Non	0	-	CH0	0
<b>Level3</b>				
Mode	Value	Relay No.	Ref. CH	Samples
Non	0	-	CH0	0
<b>Level4</b>				
Mode	Value	Relay No.	Ref. CH	Samples
Non	0	-	CH0	0

The icons displayed in the Data list are:

	Quits the Data list
	Settings for printing of the Data list
	A print preview of the Data list will appear.
	Prints the Data list.
	Stores the Data list into an Excel file or csv or tab delimit text format file. (Reading of this file with [LOAD] on each menu bar is disabled.)
	The parameters are sent to the instrument collectively. <i>* This icon may not be displayed depending on models of instruments.</i>
	The Help file will appear.

# 5.Cautions

## 5-1 How to deal with an abnormal quit

Restart the PASS when it quits unexpectedly or stops its operation because of an abnormality occurring in the operating system, shortage of memory or when executing background application software.

## 5-2 Cautions for upgrading the version

The PASS is subject to be upgraded for adding instruments to be applied.

- (1) When upgrading a version, uninstall the current version (2-2) then
- (2) install the new version.



### Caution

To uninstall an old version of PASS, follow the "Add/Remove Programs" procedure of Windows, which is explained below. You cannot uninstall the PASS with a Delete function ("drag and drop" the file into a "Recycle Bin").

# CHINO

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