

# Shimaden Com Instruction Manual

Thank you for purchasing a Shimaden product. After making sure the product fits the expected description, you should carefully read the instruction manual and get a good understanding of the contents before attempting to operate the product.

## Request

The instruction manual (hereinafter referred to as “manual”) should be kept in a handy place where the end user can refer to it when necessary.

## Preface

The manual describes how to use the **Shimaden Com**.

The manual does not contain precautions for handling, mounting method, wiring, description of functions or operation method for Shimaden devices. For information on those topics you should refer to Communication Setting of the main instruction manual of each devices.

## **WARNING!**

You should provide protective/safety circuits, etc., to ensure safety of the system in the unlikely event of product failure or malfunction, or in the case there is a defect in the program you created. By doing so, you minimize accidents that could potentially result in injury, death or serious disaster.

The contents of this document are subject to change without prior notification.

Attention has been paid to ensure accuracy of the contents. Shimaden shall, however, bear no responsibility whatsoever for damages of any type, including indirect damage, incurred as a result of clerical errors, incomplete information, or use of information contained herein.

The product may not operate properly according to the way it is used and/or usage environment (system, etc.).

Operation is not guaranteed on PCs that are not constructed by a commercial manufacturer (self-constructed PC, etc.).

### ■ Recommended operation environment

Supported operating system: Windows 7 and Windows 10

Hard disk open space: 500 MB

Memory capacity: Windows recommended

\* Windows, Windows 7, and Windows 10 are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries.

**SHIMADEN CO.,LTD.**

MSMCOM-E91-B

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## **1. Shimaden Com**

**Shimaden Com** is software that offers functions such as easy setup, remote monitoring, parameter modification and data logging of Shimaden devices with communication functions (controllers and indicators).

### **1-1. Features**

- Automatic recognition of Shimaden devices on PC/serial port located by search.
- Easy navigation and operation of devices by software without programming.
- **Shimaden Groups** enables up to 6 devices to be displayed simultaneously on a single screen.
- Data logging can be accomplished by simply saving in CSV format. Can be edited by applications such as Excel.
- Available parameters are displayed on the tool bar so the settings can be modified.
- The display section (image) of Shimaden products is reproduced.

## **2. Install and uninstall**

### **2-1. Install**

Use the following procedure to install the parameter setting tool on your PC.

- (1) Download the **Shimaden Com** parameter setting tool from our website (<http://www.shimaden.co.jp/>).
- (2) Click the Setup.exe file in the downloaded folder to start installation.  
Install in accordance with guidance displayed on the screen.

### **2-2. Uninstall**

Use the following procedure to uninstall the parameter setting tool from your PC.

- (1) Launch “Add or Remove Programs” from the Control Panel, select and delete **Shimaden Com**.

## **3. Launching and quitting**

### **3-1. Launch**

After installing **Shimaden Com**, you can launch the application by double-clicking Shimaden Com.exe on the desktop. The first time you launch **Shimaden Com**, it finds and recognizes devices connected on the serial port of the PC.

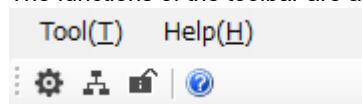
The first time you launch **Shimaden Com**, it is necessary to start Search-device for recognizing each device on the serial port of the PC.


### **3-2. Quit**


To quit the application, click the × in the top right corner of the screen.

## **4. Toolbar**


The functions of the toolbar are as follows:



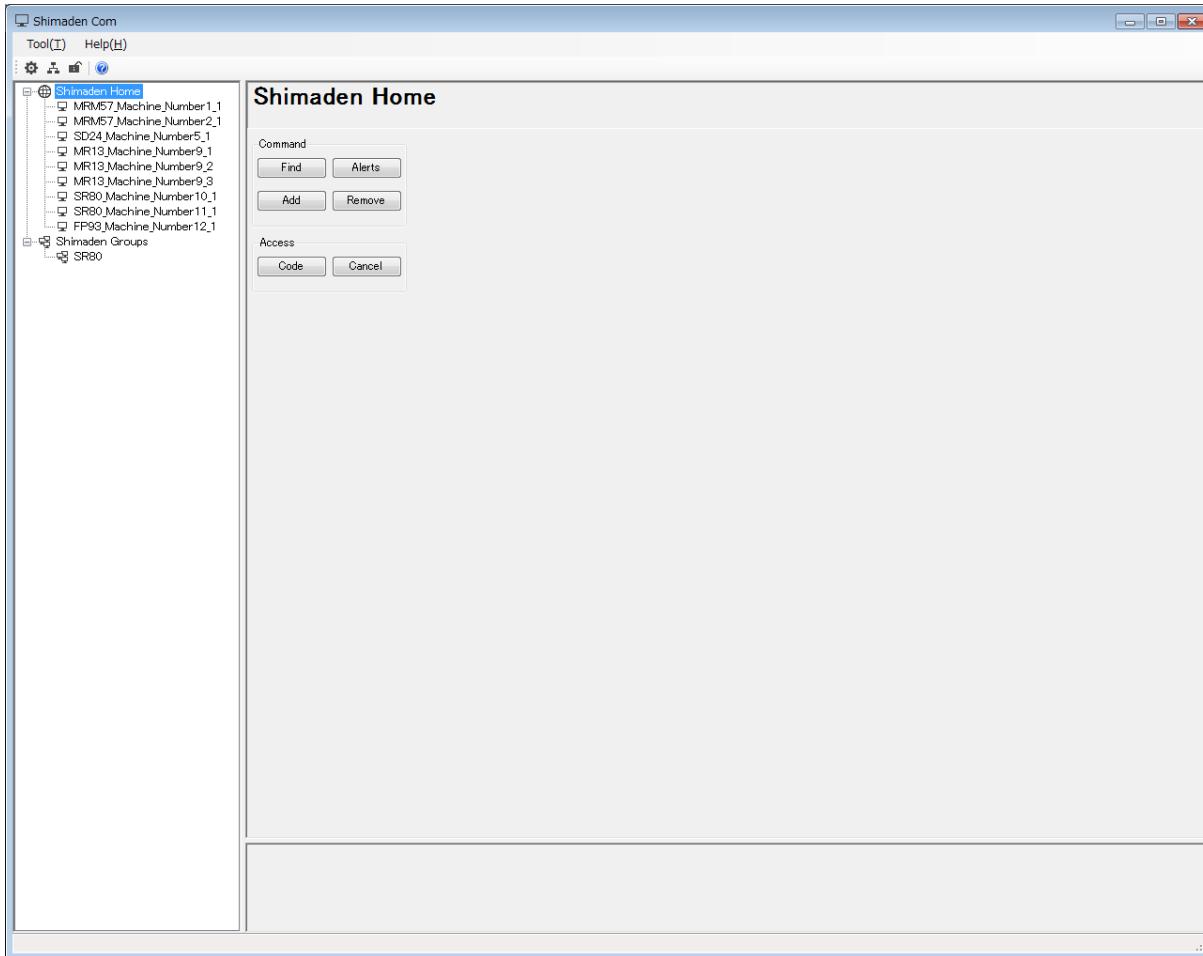
 : Sets **Shimaden Com** communication settings and CSV data log (record) settings.

 : **Shimaden Com** searches for and recognizes devices connected on the serial port of the PC after launching the search device.

 : Sets password (access).

 : Refer to the manual.

## 5. Shimaden Home screen



Name and address of each device are displayed on **Shimaden Home** on the left side of the screen. Clicking the displayed part enables you to display the control screen and set the monitoring parameters.

Link (blue characters) of **Shimaden Home** screen displays the various setting buttons.

### Command:

- : Displays search device screen.
- : Displays alarm notification screen.
- : Displays add device screen.
- : Displays delete device screen.

### Access:

- : Displays the password input screen to unlock **Shimaden Com**.
- : Locks access to **Shimaden Com** settings and device settings.

### 5-1. Search device (Find)

Starting the search device enables devices connected on the PC serial port to be recognized.

Before starting Search-device, check 9. Communication settings and communication parameters/ wiring of each device.

#### Step 1: Start search

The screenshot shows a dialog box titled 'Search device' with the following settings:

- Port: COM 10
- Speed: 9600 bps
- BCC: Add
- StartChar: STX-ETX-CR
- ByteSize: 7 bit
- StopBit: 1 bit
- Parity: Even
- Protocol: SHIMADEN
- Address (Max: 255): min 1, max 20

The 'Start search' button is highlighted with a red dashed box. The 'Completion' button is also visible.

\* You can set addresses to be searched for (1–255).  
Clicking the **Start search** button starts search device.

#### Step 2: Searching

The screenshot shows the same dialog box as in Step 1, but now the 'No.' and 'Type' table on the right contains two entries:

No.	Type
1	MRM57
2	MRM57

The 'Cancel' button is highlighted with a red dashed box.

#### Step 3: Search completion

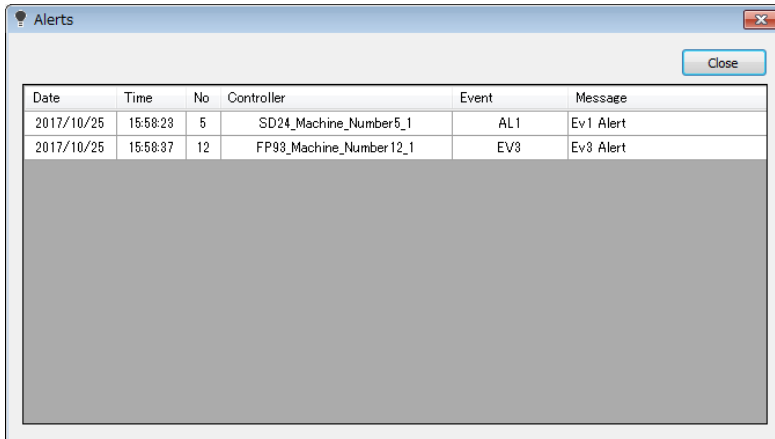
The screenshot shows the same dialog box as in Step 2, but now the 'No.' and 'Type' table on the right contains twelve entries:

No.	Type
1	MRM57
2	MRM57
5	SD24
9	MR 13
9	MR 13
9	MR 13
10	SR80
11	SR80
12	FP93

The 'Completion' button is highlighted with a red dashed box.

Clicking the **Completion** button adds devices to **Shimaden Home** so they can be monitored.

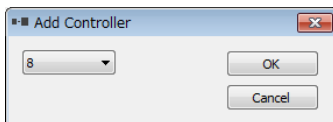
## 5-2. Alarm notification screen (Alerts)



\* Alarm notification screen displays date/time alarm occurred, device address No., device name, alarm No., and message. A list is displayed in descending order in device address sequence. Double-clicking each line displays the controller screen for that device. Alarm notification screen is updated every minute.

## 5-3. Add device screen (Add)

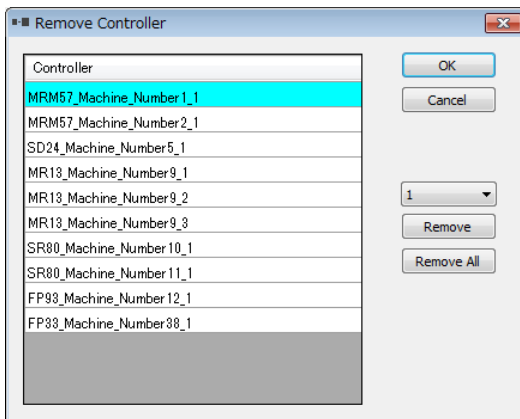
You can add device of address selected in the combo box.



\* Address specified when device is added; cannot be added when communication is impossible.

## 5-4. Delete device screen (Remove)

You can select and delete devices by device title.



: Deletes selected device.

: Deletes all devices.

### 5-5. Password (access) setting

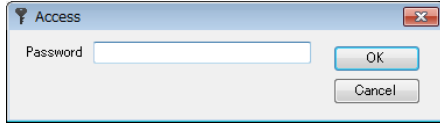
Setting a password (code) enhances security of **Shimaden Com**.

**Code:** Password (access code) input

**Cancel:** Locks access. After clicking, **Shimaden Com** settings and device settings are protected by password.

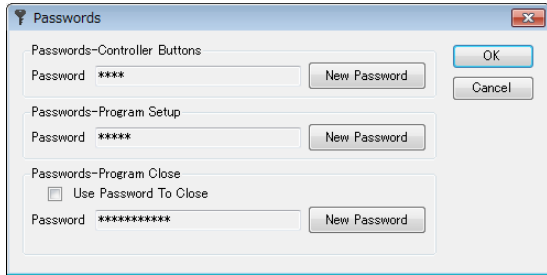
#### Password input

Password input by **Shimaden Home** screen Code button.



#### Password setting

Select  (passwords) from toolbar at top of window.



Controller Button: Protects controller button by password.

Program Setup: Protects **Shimaden Com** settings by password.

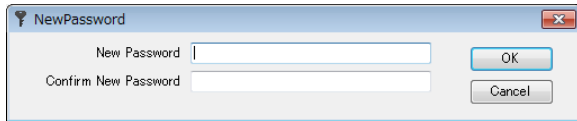
Program Close: Requires password to quit program.

\* If you place a check in the box next to “Use Password to close” when the program finishes, the next time **Shimaden Com** is launched, it will be password protected. The controller button or program setup password input will be required at this time.

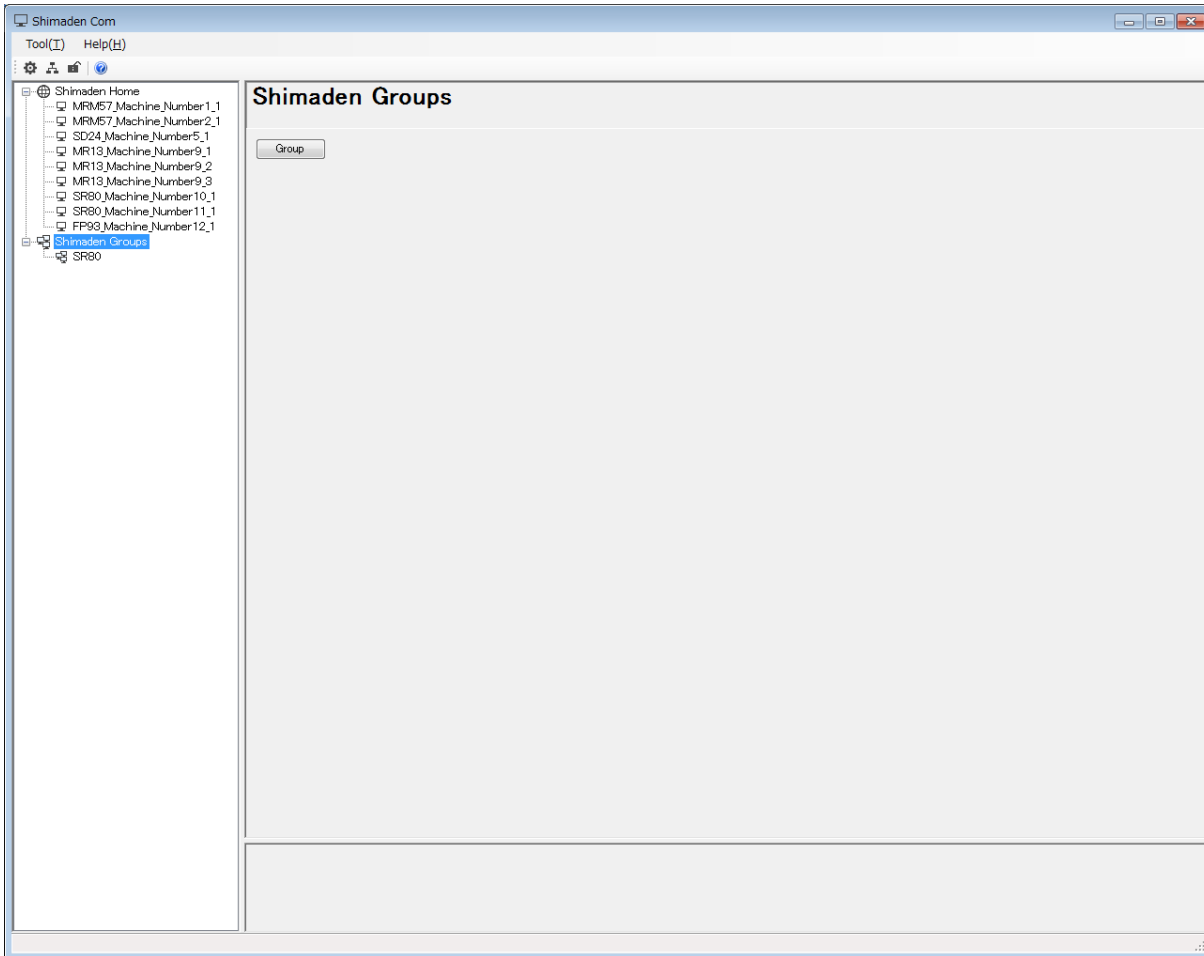
#### Initial password

Controller Button	sr25
Program Setup	setup
Program Close	systemclose


**New Password:** Click to input new password. (Old password is not required.)



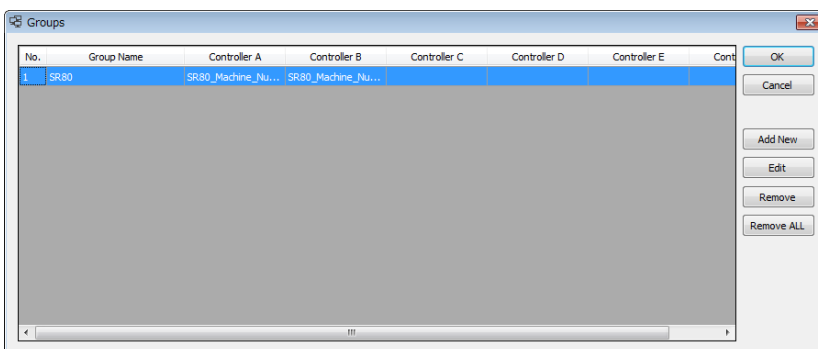
## 6. Shimaden Groups screen




Groups set by the user are displayed on **Shimaden Groups** on the left side of the screen. Link (blue characters) of **Shimaden Groups** screen displays the Group button.

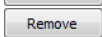
 : Adds/deletes group.

### 6-1. Add/delete group



 : Creates group.

 : Edits selected group.

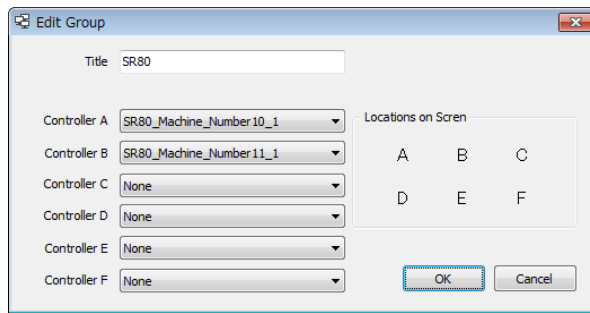
 : Deletes selected group.

 : Deletes all groups.

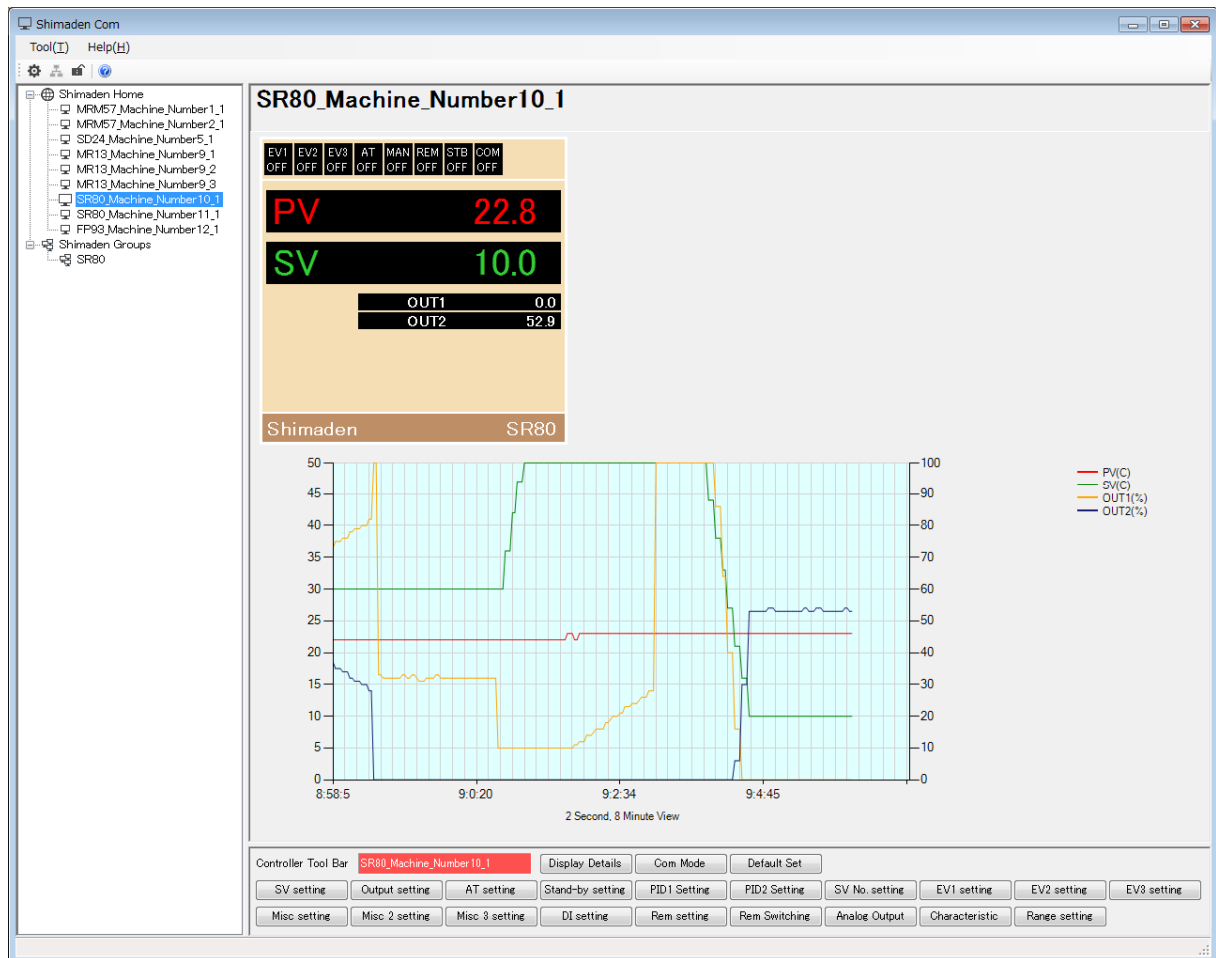


## 6-2. Edit group

Give a title for the group and select device from pull-down list according to group display position (A, B, C, D, E, F).



## 7. Controller screen



The Shimaden device screen, PV/SV values transition graphs and parameter setting buttons that can be used for all devices on the software, are displayed on the controller screen.

Device parameter read/write is enabled by the controller buttons at the bottom. You can go back to the **Shimaden Home** screen by clicking **Shimaden Home** on the left side of the Window.

- Display Details** : Sets device name, display unit and graph settings.
- Com Mode** : Sets communication mode/local mode settings.
- Default Set** : Sets device parameters to default values by communication.

## 7-1. Display Details (device name, display unit, graph)

- : Sets alarm notification settings.
- : Sets device code selection settings.
- : Clear the graph display.

- Title (device name)
- Unit
- Decimal point position (available device only: automatic reading)
- Graph Display (Y axis higher limit (Top of Graph) [initial value: 100]/lower limit (Bottom of Graph) [initial value: 0] position)
- Clear graph display (Clear Graph)  
Clears all graphs and reopens graphs by same setting.
- Graph update cycle (Record Rate) (update cycle/ display scale: 2 sec./ 8 min., 15 sec./ 1 hour, 1 min./ 4 hours)

If graph display cycle is changed, all graphs created up to that point are cleared.

\* Graph setting values are effective for graph display. Graph setting values have no effect on CSV log data.

### 7-1-1. Alarm notification settings (Alert)

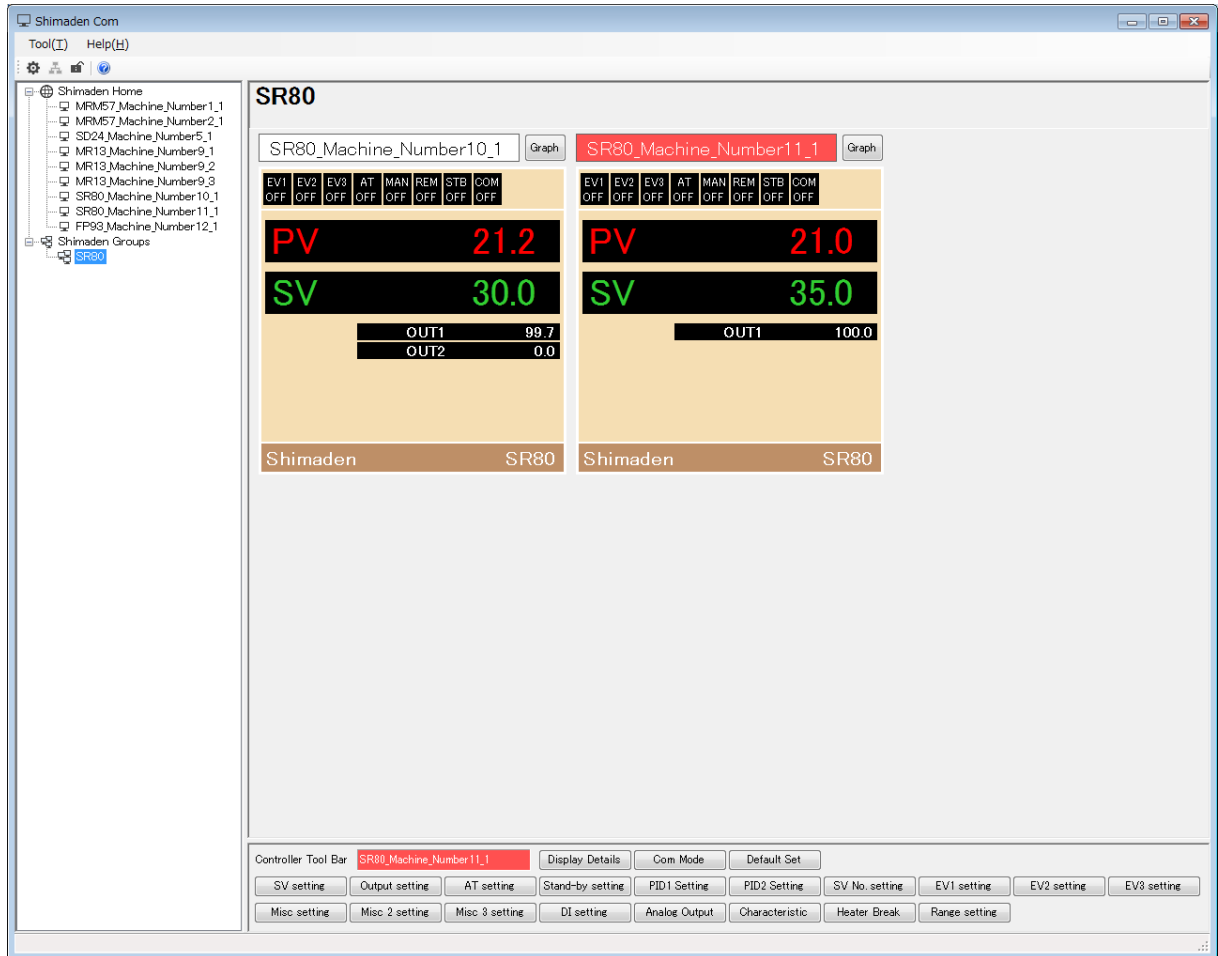
You can check alarms displayed on the alarm notification screen, and set alarm messages to be displayed as you like.

### 7-1-2. Device code selection settings (Type)

Select device code from the pull-down list. Set as given in the device code selection table.

item	specification
input	1. thermocouple
output1	Y: contact
output2	Y: contact
power supply	90:100-240V AC
event output/hb alarm	1. event
remote input	14:4-20mA DC
analog output	3. voltage (0-10mV)
communication	5:RS485
external input (DI)/sv bias	1. with
remarks	0: none

## 8. Group screen



A total of 6 devices can be displayed in the **Shimaden Groups** screen at one time.


You can set up to a total of 100 groups.

By selecting the device for which settings are to be modified, the device title turns red.

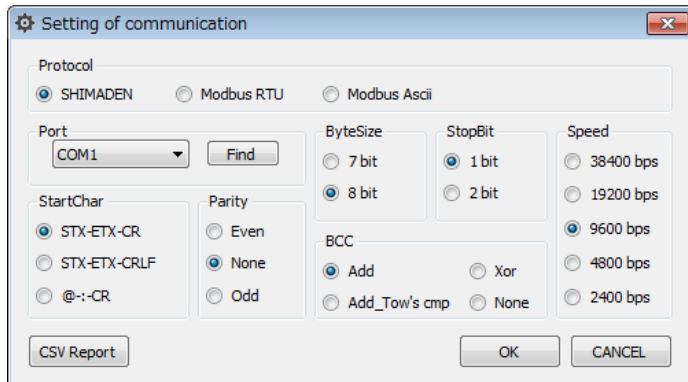
Toolbar of device displayed in red (controller buttons) is displayed at the bottom of the screen.

Clicking the  button to the right of the device title enables you to switch to the controller screen (graph) for that device.

## 9. Communication settings

Click the  button on the toolbar or select “Communication settings” from the “Tools” menu.

### 9-1. Communication settings



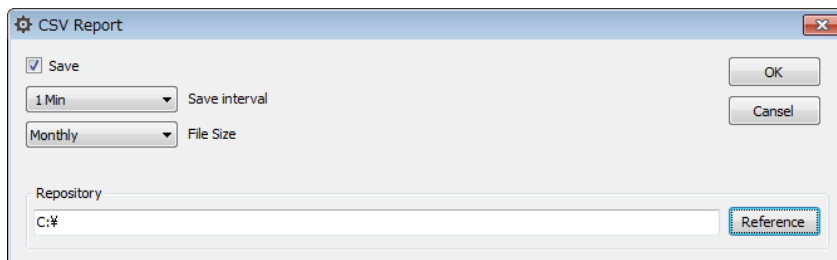
\* Set communication settings for each device according to communication settings of **Shimaden Com.**

 : Displays CSV Report screen.


 : Displays Port Search screen.

### 9-2. Save measurement data

You can save parameters, PV/SV information, etc. of each device, to a file on the CSV Report screen.



#### ▪ Start logging data

Place a check in the “Save” box and click the  button to start logging data.

#### ▪ Data save interval


You can select from among Fast/1 min./5 min./10 min./15 min./30 min.

\*If you select Fast, recording will be done approx. every 1 second.

#### ▪ File size

You can select “Daily” or “Monthly.”

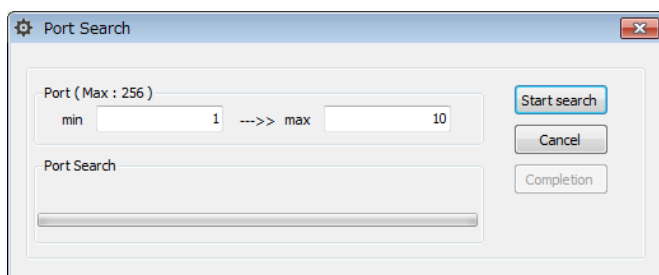
#### ▪ Data save location

Click the  button to select location where data is to be saved.


### 9-3. Port search

Starting the port search enables PC serial ports to be recognized.

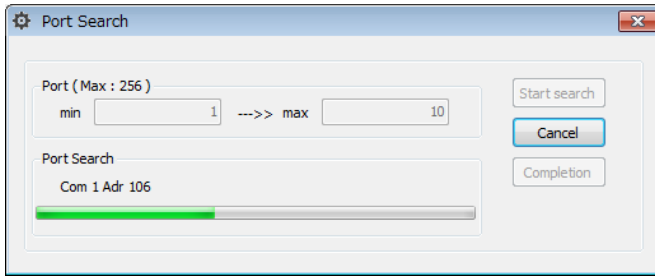
#### Step 1: Port search start



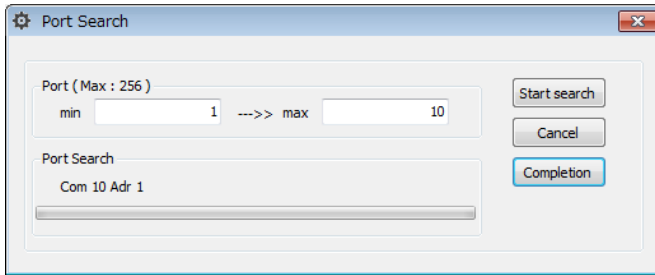
You can set ports to be searched for (1–256).

Click the  button to search for ports.

**Step 2: Port search in progress**



**Step 3: Port search completion**



Click the Completion button and the ports located are reflected in the communication settings screen.

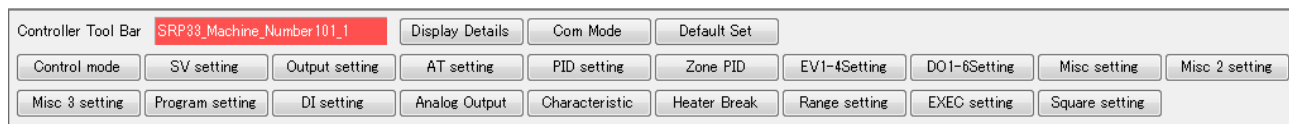
## 10. Device setting screen

Parameters setting range is displayed on the left side of the status bar at the bottom of the window.



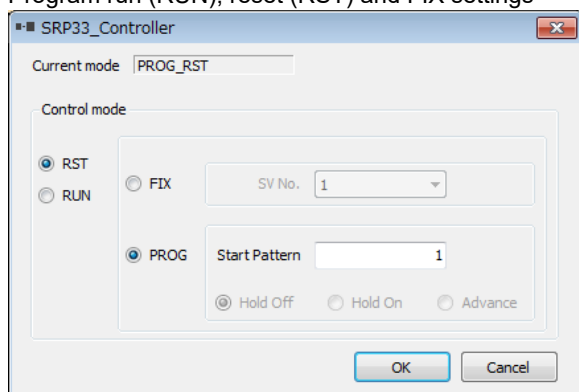
### 10-1. SRP33 Dialog Boxes


#### Toolbar




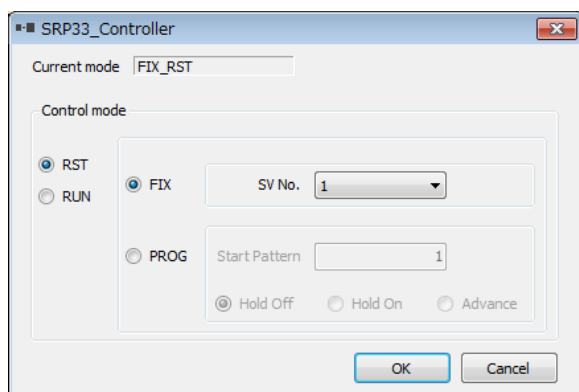
#### Control mode

Program run (RUN), reset (RST) and FIX settings




Program starts by RUN and  button.

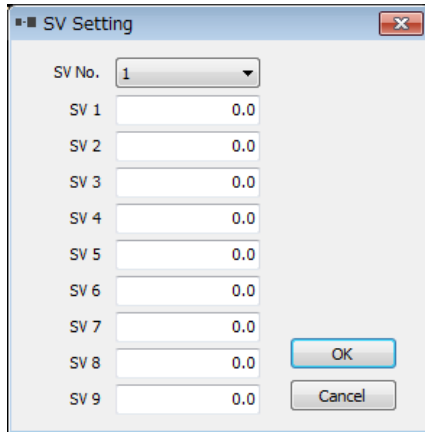
Program stops by RST and  button.



Fixed position control starts by RUN and  button.

Fixed position control stops by RST and  button.

## SV settings

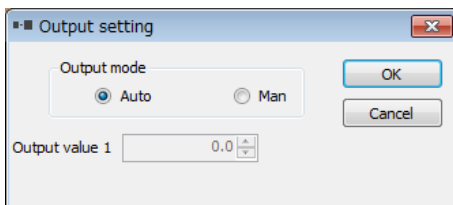


The 'SV Setting' dialog box features a title bar with a close button. Below the title bar, there is a dropdown menu for 'SV No.' set to '1'. A list of nine 'SV' entries (SV 1 through SV 9) is displayed, each with a text input field containing '0.0'. At the bottom right, there are two buttons: 'OK' and 'Cancel'.

SV value and PID No. settings in FIX mode

Click the  button to export data to device.

## Output setting (toggles between automatic and manual output)

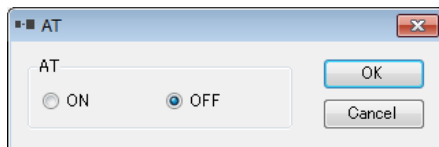


The 'Output setting' dialog box has a title bar with a close button. It contains a section for 'Output mode' with two radio buttons: 'Auto' (which is selected) and 'Man'. Below this is a text input field for 'Output value 1' with '0.0' entered. At the bottom right, there are 'OK' and 'Cancel' buttons.

Place a check in the box next to AUTO for automatic output, or in the box next to Man for manual output.

Click the  button to export data to device.

## AT setting

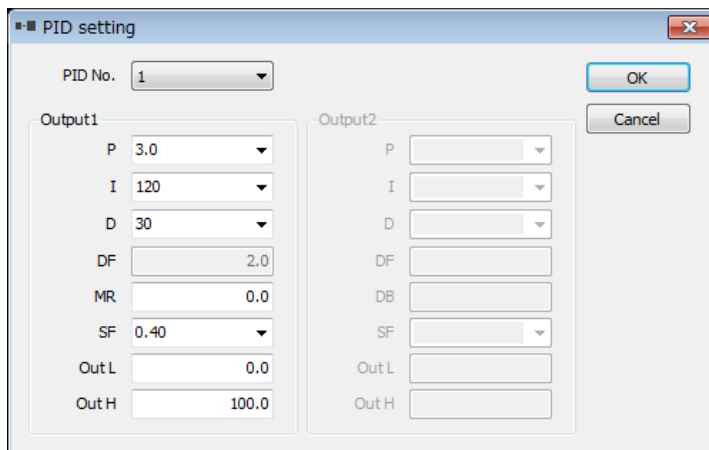


The 'AT' dialog box has a title bar with a close button. It features a section for 'AT' with two radio buttons: 'ON' and 'OFF' (which is selected). At the bottom right, there are 'OK' and 'Cancel' buttons.

ON sets auto tuning, and OFF cancels it.

Click the  button to export data to device.

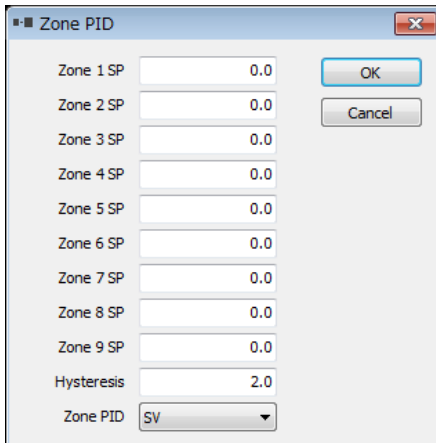
## PID settings



The 'PID setting' dialog box has a title bar with a close button. It features a dropdown menu for 'PID No.' set to '1'. Below this are two columns of settings: 'Output1' and 'Output2'. 'Output1' includes dropdowns for 'P' (3.0), 'I' (120), and 'D' (30), and text inputs for 'DF' (2.0), 'MR' (0.0), 'SF' (0.40), 'Out L' (0.0), and 'Out H' (100.0). 'Output2' includes dropdowns for 'P', 'I', and 'D', and text inputs for 'DF', 'DB', 'SF', 'Out L', and 'Out H'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Select PID No., set PID parameters and click the  button to export data to device.

## Zone PID settings



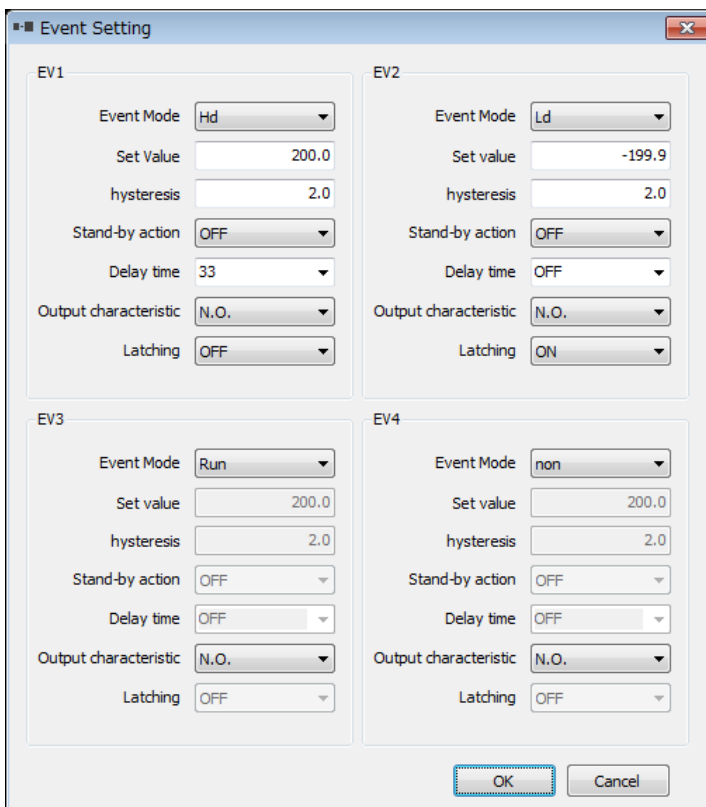
The 'Zone PID' dialog box contains the following fields and controls:

Parameter	Value
Zone 1 SP	0.0
Zone 2 SP	0.0
Zone 3 SP	0.0
Zone 4 SP	0.0
Zone 5 SP	0.0
Zone 6 SP	0.0
Zone 7 SP	0.0
Zone 8 SP	0.0
Zone 9 SP	0.0
Hysteresis	2.0
Zone PID	SV

Buttons: OK, Cancel

Set zone PID parameters and click the  button to export data to device.


## Event settings



The 'Event Setting' dialog box is divided into four sections: EV1, EV2, EV3, and EV4. Each section contains the following parameters:

Event	Event Mode	Set Value	hysteresis	Stand-by action	Delay time	Output characteristic	Latching
EV1	Hd	200.0	2.0	OFF	33	N.O.	OFF
EV2	Ld	-199.9	2.0	OFF	OFF	N.O.	ON
EV3	Run	200.0	2.0	OFF	OFF	N.O.	OFF
EV4	non	200.0	2.0	OFF	OFF	N.O.	OFF

Buttons: OK, Cancel

Set event parameters and click the  button to export data to device.




## DO settings

The screenshot shows a 'DO Setting' dialog box with six panels for DO1 through DO6. Each panel contains the following settings:

- DO1: DO Mode: non, Set Value: 200.0, hysteresis: 2.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: ON
- DO2: DO Mode: non, Set value: 200.0, hysteresis: 2.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: ON
- DO3: DO Mode: non, Set value: 200.0, hysteresis: 2.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: ON
- DO4: DO Mode: non, Set value: 0.0, hysteresis: 0.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: OFF
- DO5: DO Mode: non, Set value: 0.0, hysteresis: 0.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: OFF
- DO6: DO Mode: non, Set value: 0.0, hysteresis: 0.0, Stand-by action: OFF, Delay time: OFF, Output characteristic: N.O., Latching: OFF

Buttons: OK, Cancel


Set DO parameters and click the  button to export data to device.

## Various settings

The screenshot shows a 'Various setting' dialog box with the following settings:

- PV Slope: 1.000
- PV Bias: 0.0
- PV Filter: 0
- SV limiter lowest value: 0.0
- SV limiter highest value: 1370.0

Buttons: OK, Cancel

PV slope, PV bias, PV filter, SV lower limit value, SV higher limit value settings. Click the  button to export data to device.

## Various 2 settings

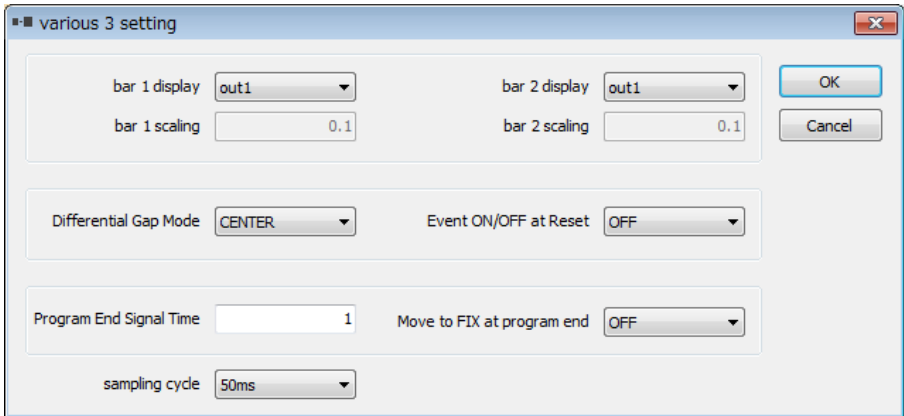
The screenshot shows a 'various 2 setting' dialog box with the following settings:

- keylock: OFF
- AT execution point: 0.0
- communication memory: EEP
- communication mode: COM1
- time setting mode: HEX

Buttons: OK, Cancel

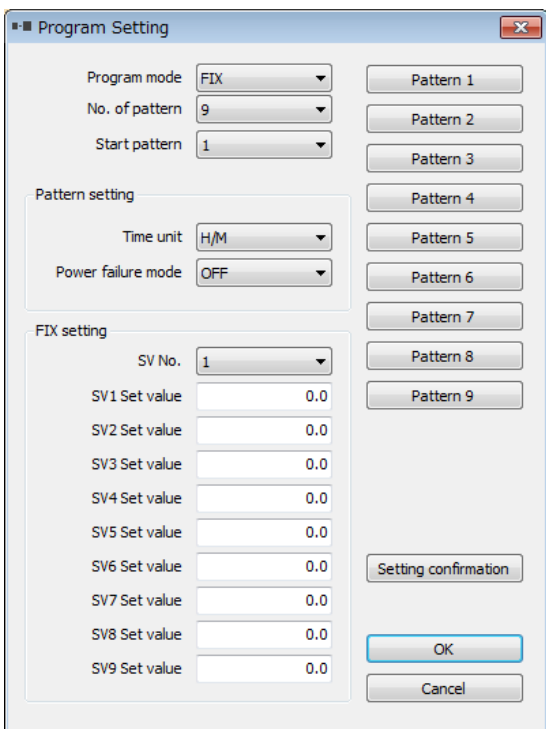
Set various 2 parameters and click the  button to export data to device.

### Various 3 settings



Set various 3 parameters and click the **OK** button to export data to device.

### Program settings





- Pattern 1 : Creates/edits pattern 1.
- Pattern 2 : Creates/edits pattern 2.
- Pattern 3 : Creates/edits pattern 3.
- Pattern 4 : Creates/edits pattern 4.
- Pattern 5 : Creates/edits pattern 5.
- Pattern 6 : Creates/edits pattern 6.
- Pattern 7 : Creates/edits pattern 7.
- Pattern 8 : Creates/edits pattern 8.
- Pattern 9 : Creates/edits pattern 9.
- Setting confirmation : Displays list of data entered.

Set program parameters and click the **OK** button to export data to device.

\* You should note the more steps there are in the program, the longer it takes to read/write the program.

## Pattern 1 to 9 settings

Step	SV	Time	PID No.	TS1 On	TS1 Off	TS2 On	TS2 Off	TS3 On	TS3 Off	TS4 On	TS4 Off	TS5 On	TS5 Off	TS6 On	TS6 Off	TS7 On	TS7 Off	TS8 On	TS8 Off
1	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
3	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
6	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
7	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
9	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
10	0.0	00:01	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF



Click the  button to update input data.  
 Click the  button to set event.

## Pattern/event settings

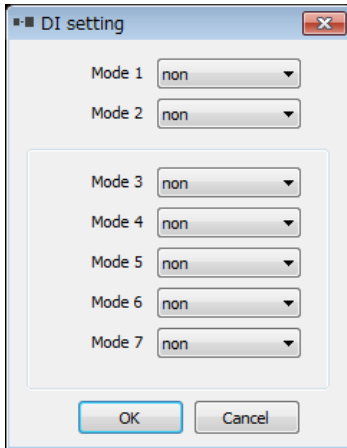
Click the  button to update input data.

## Program/parameter settings

Parameter	Description	Data
PRG_MD	Program mode	FIX
ST_PTN	Start pattern	1
PTN_MOD	Pattern count	9
TIME_MOD	Time mode	Hour:Minute
SHT_MOD	Power failure mode	OFF
SV1	Fix Set Value	0.0
SV2	Fix Set Value	0.0
SV3	Fix Set Value	0.0
SV4	Fix Set Value	0.0
SV5	Fix Set Value	0.0
SV6	Fix Set Value	0.0
SV7	Fix Set Value	0.0
SV8	Fix Set Value	0.0
SV9	Fix Set Value	0.0
SV_NO	Execution SV No.	1
Pattern01 Data		

Click the  button to save the program parameters to a file.  
 Click the  button to import the program parameter file that was saved.

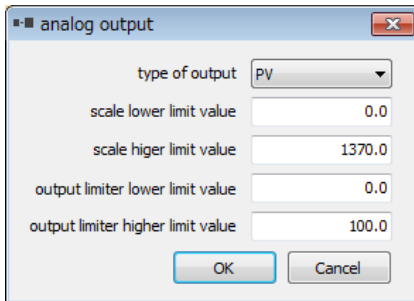
## DI settings



DI setting dialog box showing Mode 1 through Mode 7, all set to 'non'. Buttons: OK, Cancel.

Set DI parameters and click the  button to export data to device.

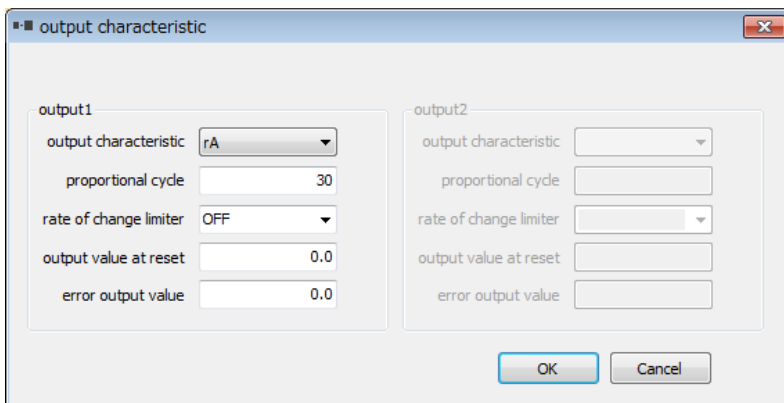
## Analog output settings



analog output dialog box showing type of output (PV), scale lower limit value (0.0), scale higher limit value (1370.0), output limiter lower limit value (0.0), and output limiter higher limit value (100.0). Buttons: OK, Cancel.

Set analog output parameters and click the  button to export data to device.

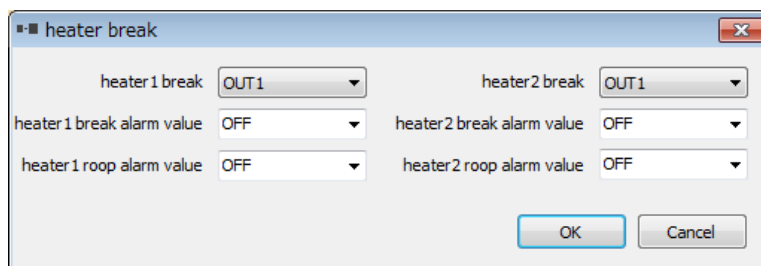
## Output characteristics settings



output characteristic dialog box showing output1 and output2 settings. Output1: output characteristic (rA), proportional cycle (30), rate of change limiter (OFF), output value at reset (0.0), error output value (0.0). Output2: output characteristic, proportional cycle, rate of change limiter, output value at reset, error output value. Buttons: OK, Cancel.

Set output characteristics parameters and click the  button to export data to device.

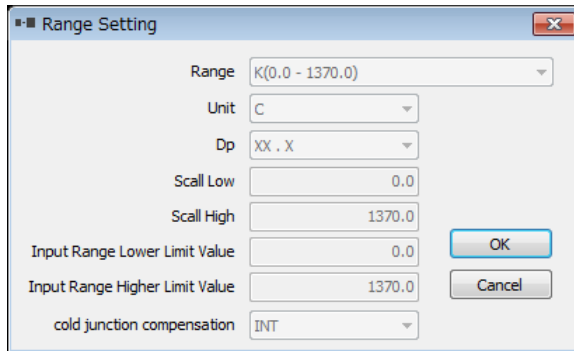
## Heater break settings



heater break dialog box showing heater1 break (OUT1), heater2 break (OUT1), heater1 break alarm value (OFF), heater2 break alarm value (OFF), heater1 roop alarm value (OFF), and heater2 roop alarm value (OFF). Buttons: OK, Cancel.

Set heater break parameters and click the  button to export data to device.

## Range settings



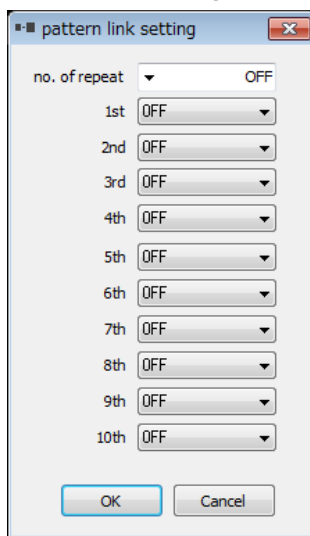
The Range Setting dialog box contains the following fields and controls:

- Range: K(0.0 - 1370.0)
- Unit: C
- Dp: XX . X
- Scall Low: 0.0
- Scall High: 1370.0
- Input Range Lower Limit Value: 0.0
- Input Range Higher Limit Value: 1370.0
- cold junction compensation: INT
- Buttons: OK, Cancel

Range parameters check

\* Cannot be entered

## Pattern link settings



The pattern link setting dialog box contains the following fields and controls:

- no. of repeat: OFF
- 1st: OFF
- 2nd: OFF
- 3rd: OFF
- 4th: OFF
- 5th: OFF
- 6th: OFF
- 7th: OFF
- 8th: OFF
- 9th: OFF
- 10th: OFF
- Buttons: OK, Cancel

Set pattern link parameters and click the  button to export data to device.

## Square root extraction/10-segment operation settings

square root/ten segment linearizer approximation

square root extraction

OFF low cut 1.0

ten segment linearizer approximation

mode OFF

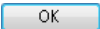
ten segment linearizer input

A1  
A2  
A3  
A4  
A5  
A6  
A7  
A8  
A9  
A10  
A11

ten segment linearizer output

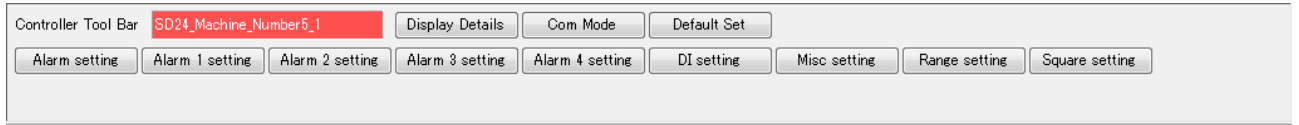
B1  
B2  
B3  
B4  
B5  
B6  
B7  
B8  
B9  
B10  
B11

OK Cancel

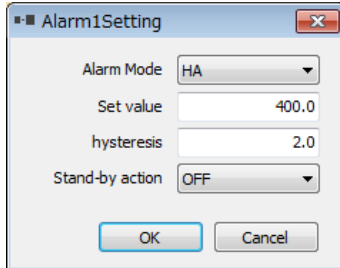
Set square root extraction/10-segment operation settings and click the  button to export data to device.


## 10-2. SD24 Dialog Boxes

### Toolbar

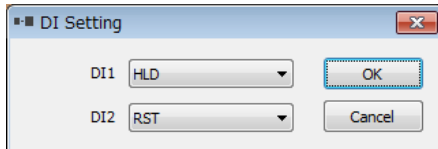



### Alarm 1, 2, 3, 4 settings



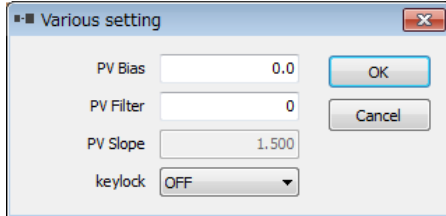
Set alarm parameters and click the  button to export data to device.


### DI settings



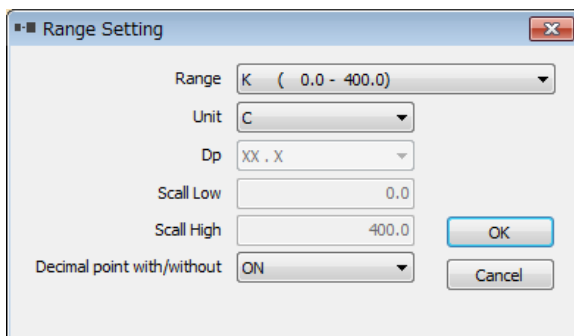
Set DI parameters and click the  button to export data to device.

### Various settings



Click the  button to export PV bias, PV filter and PV slope settings to device.

### Range settings



Set range parameters and click the  button to export data to device.

## Square root extraction/10-segment operation settings

square root/ten segment linearizer approximation


square root extraction  
ON low cut 0.2

ten segment linearizer approximation  
mode ON

ten segment linearizer input  
A1  
A2  
A3  
A4  
A5  
A6  
A7  
A8  
A9  
A10  
A11

ten segment linearizer input  
B1  
B2  
B3  
B4  
B5  
B6  
B7  
B8  
B9  
B10  
B11

OK Cancel

Set square root extraction/10-segment operation settings and click the  button to export data to device.

\* With regard to the technical details of products, please contact your nearest Shimaden dealer.

The contents of this manual are subject to change without notice.

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