

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 10 and Windows 11

Hard disk open space: 500 MB

Memory capacity: Windows recommended

* Windows, Windows 10, and Windows 11 are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries.

SHIMADEN CO.,LTD.

MSMCOM-E91-C
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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 (<https://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.

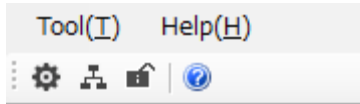
The first time you launch **Shimaden Com**, it is necessary to start Search-device for recognizing each device on the serial port of the PC.





3-2. Quit

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

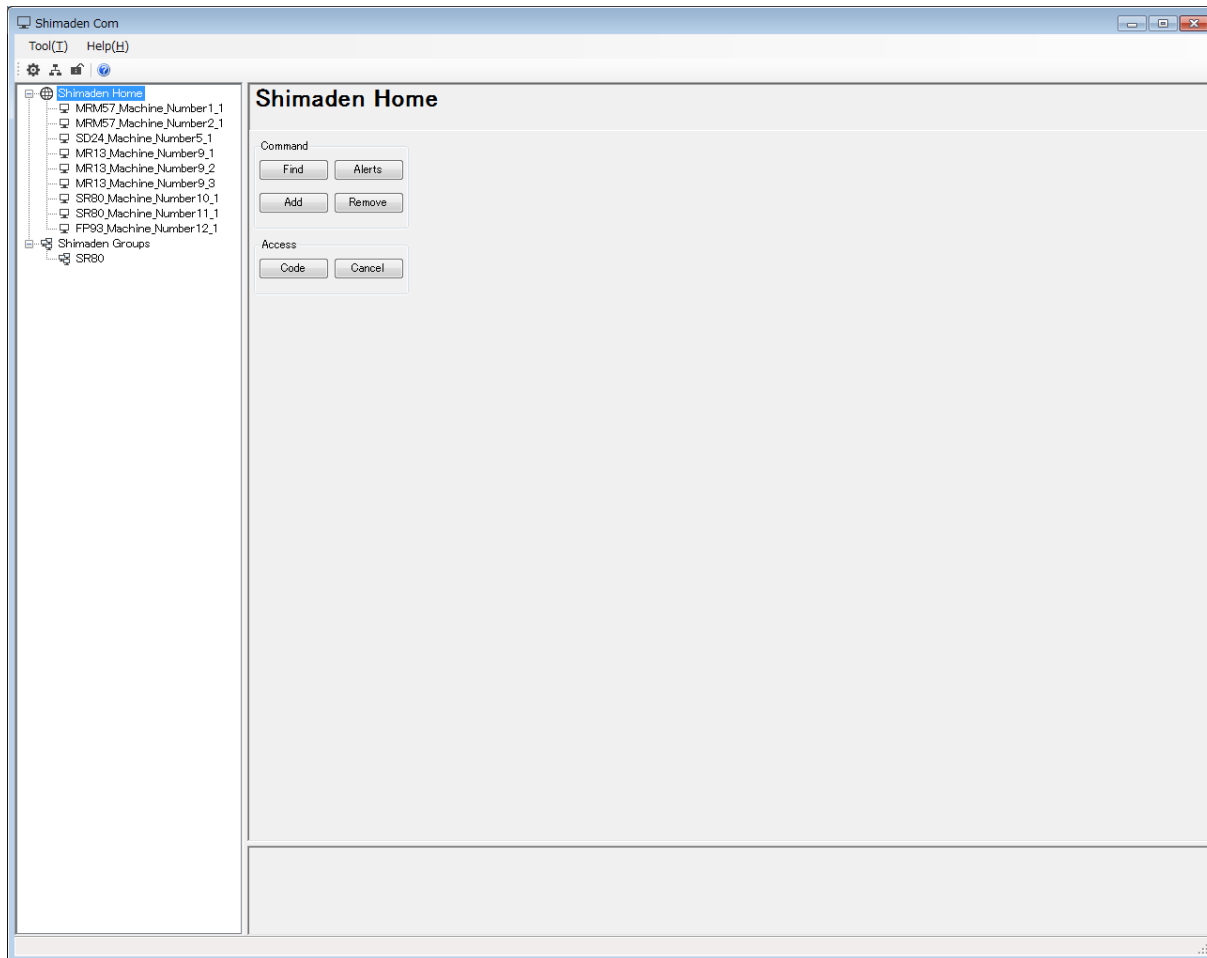
4. Toolbar

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.

- Add** : Displays add device screen.
- Remove** : Displays delete device screen.

Access:

- Code** : Displays the password input screen to unlock **Shimaden Com.**
- Cancel** : 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

Communication condition

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

Buttons: Start search, Cancel, Completion

No.	Type
-----	------

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

Step 2: Searching

Communication condition

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

Buttons: Start search, Cancel, Completion

No.	Type
1	MRM57
2	MRM57

Step 3: Search completion

Communication condition


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

Buttons: Start search, Cancel, Completion

No.	Type
1	MRM57
2	MRM57
5	SD24
9	MR13
9	MR13
9	MR13
10	SR80
11	SR80
12	FP93

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

5-2. Alarm notification screen (Alerts)

Alerts

Close

Date	Time	No	Controller	Event	Message
2017/10/25	15:58:23	5	SD24_Machine_Number5_1	AL1	Ev1 Alert
2017/10/25	15:58:37	12	FP93_Machine_Number12_1	EV3	Ev3 Alert

* 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.

Add Controller

8

OK

Cancel

* 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.

Remove Controller

Controller

MRM57_Machine_Number1_1

MRM57_Machine_Number2_1

SD24_Machine_Number5_1

MR13_Machine_Number9_1

MR13_Machine_Number9_2

MR13_Machine_Number9_3

SR80_Machine_Number10_1

SR80_Machine_Number11_1

FP93_Machine_Number12_1

FP93_Machine_Number38_1

OK

Cancel

1

Remove

Remove All

Remove : Deletes selected device.
Remove All : Deletes all devices.

5-5. Password (access) setting

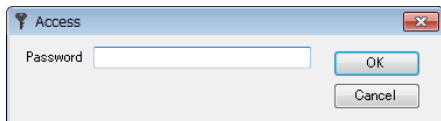
Setting a password (code) enhances security of **Shimaden Com**.

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.



The 'Access' dialog box has a title bar with a lock icon and a close button. It contains a 'Password' text input field, an 'OK' button, and a 'Cancel' button.

Password setting

Select  (passwords) from toolbar at top of window.



The 'Passwords' dialog box has a title bar with a lock icon and a close button. It contains three sections: 'Passwords-Controller Buttons' with a 'Password' field (displaying four asterisks) and a 'New Password' button; 'Passwords-Program Setup' with a 'Password' field (displaying five asterisks) and a 'New Password' button; and 'Passwords-Program Close' with a checkbox labeled 'Use Password To Close' and a 'Password' field (displaying eight asterisks) with a 'New Password' button. 'OK' and 'Cancel' buttons are on the right.

Controller Button: Protects controller button by password.

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

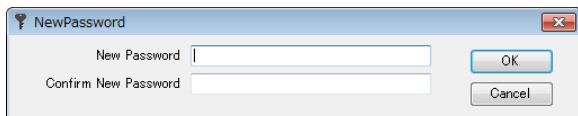
Program Close: Requires password to quit program.

* 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

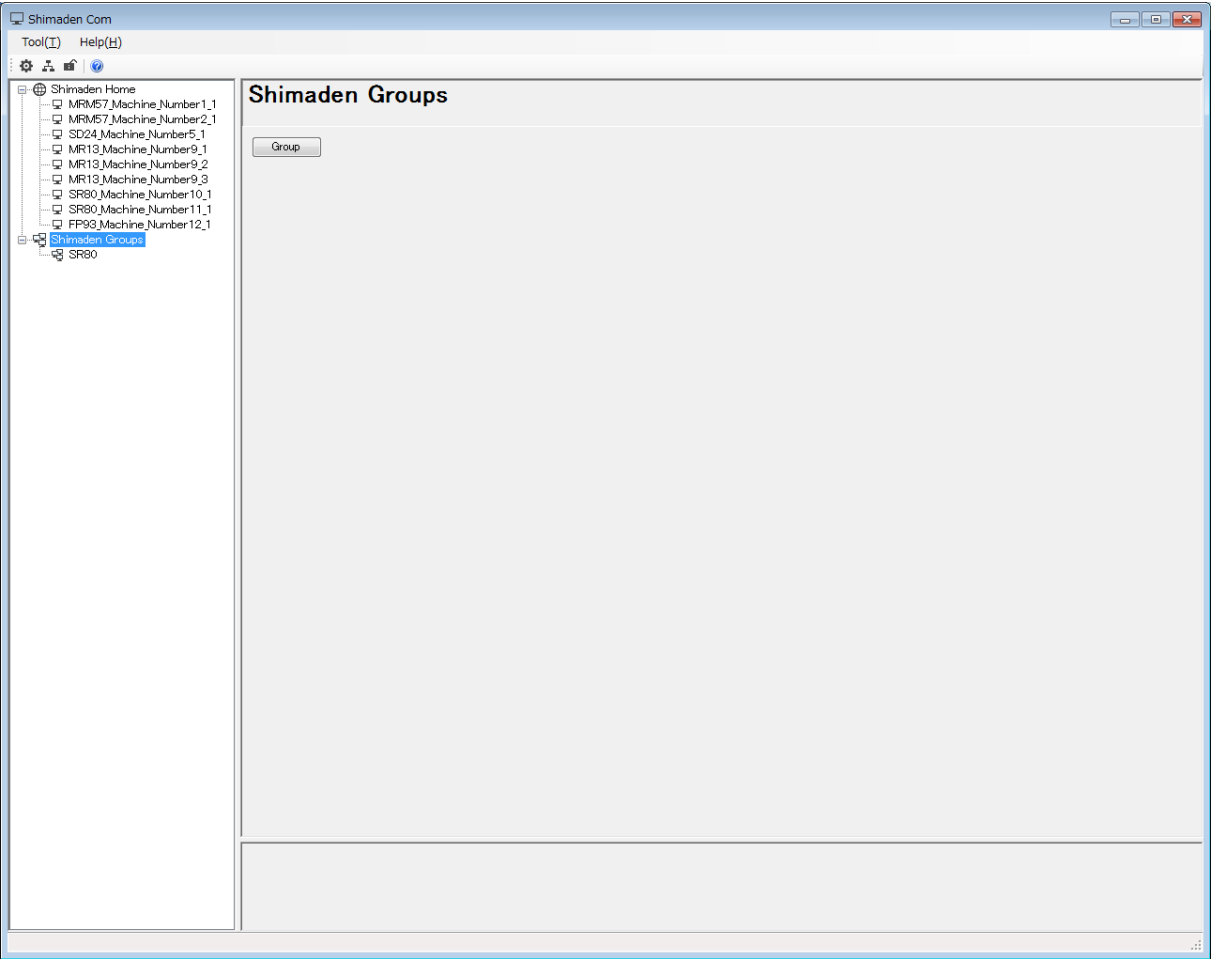
Controller Button	sr25
Program Setup	setup
Program Close	systemclose

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



The 'NewPassword' dialog box has a title bar with a lock icon and a close button. It contains two text input fields: 'New Password' and 'Confirm New Password'. It also has 'OK' and 'Cancel' buttons.

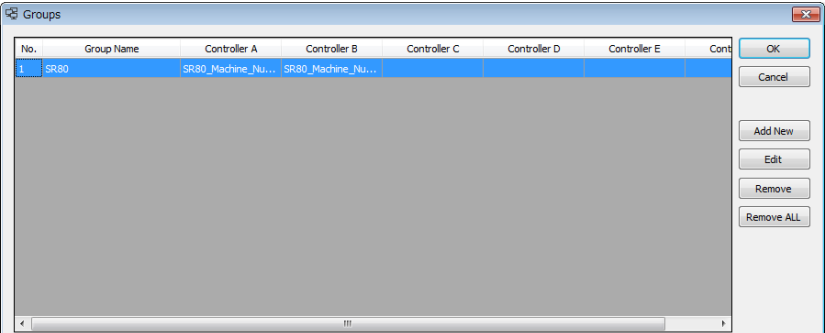
6. Shimaden Groups screen



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.

Group : Adds/deletes group.

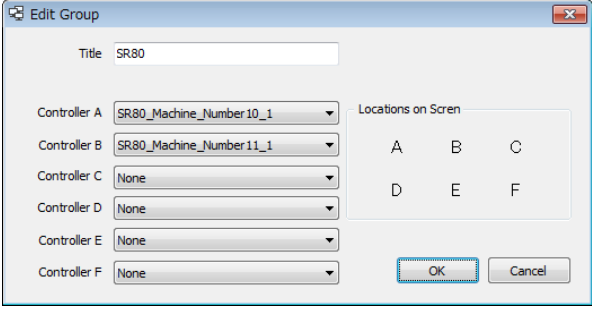
6-1. Add/delete group



- Add New : Creates group.
 Edit : Edits selected group.
 Remove : Deletes selected group.
 Remove ALL : Deletes all groups.

6-2. Edit group

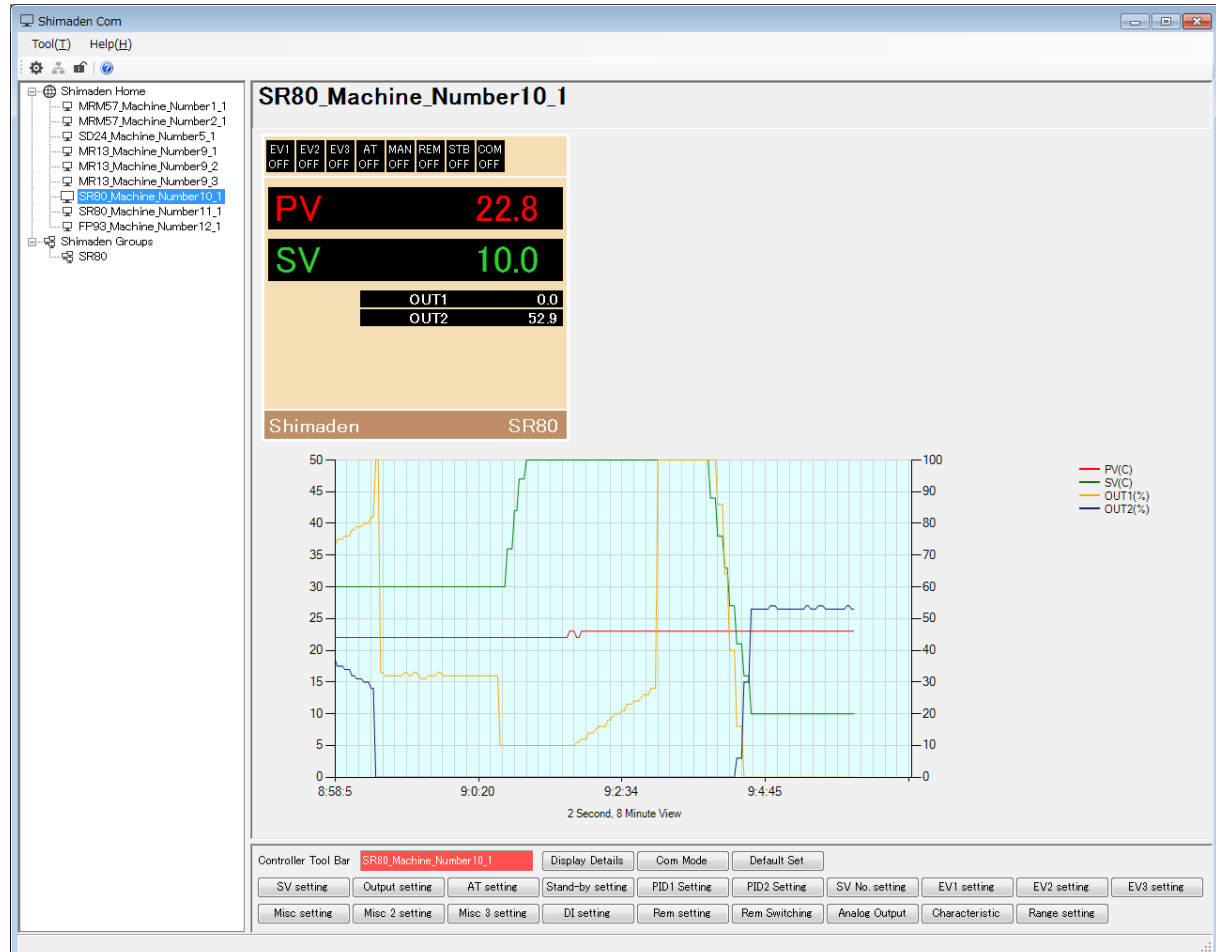
Give a title for the group and select device from pull-down list according to group display position (A, B, C, D, E, F).



The 'Edit Group' dialog box contains the following fields and controls:

- Title:** A text input field containing 'SR80'.
- Controller A:** A dropdown menu with 'SR80_Machine_Number10_1' selected.
- Controller B:** A dropdown menu with 'SR80_Machine_Number11_1' selected.
- Controller C:** A dropdown menu with 'None' selected.
- Controller D:** A dropdown menu with 'None' selected.
- Controller E:** A dropdown menu with 'None' selected.
- Controller F:** A dropdown menu with 'None' selected.
- Locations on Screen:** A 2x3 grid of buttons labeled A, B, C, D, E, and F.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

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)

DisplayDetails

Controller: SR80

Title: SR80_Machine_Number10_1

Units: 0 - Non

Decimal Point: 1 - X.XX (Supplied by Controller)

Trend Graph Details

50 Top of Graph

0 Bottom of Graph

2 Second, 8 Minute View Record Rate

OK

Cancel

Alert

Type

Clear Graph

- Alert : Sets alarm notification settings.
- Type : Sets device code selection settings.
- Clear Graph : 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.

AlertMessage

☒ EV1 Ev1 Alert

☒ EV2 Ev2 Alert

☒ EV3 Ev3 Alert

OK

Cancel

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

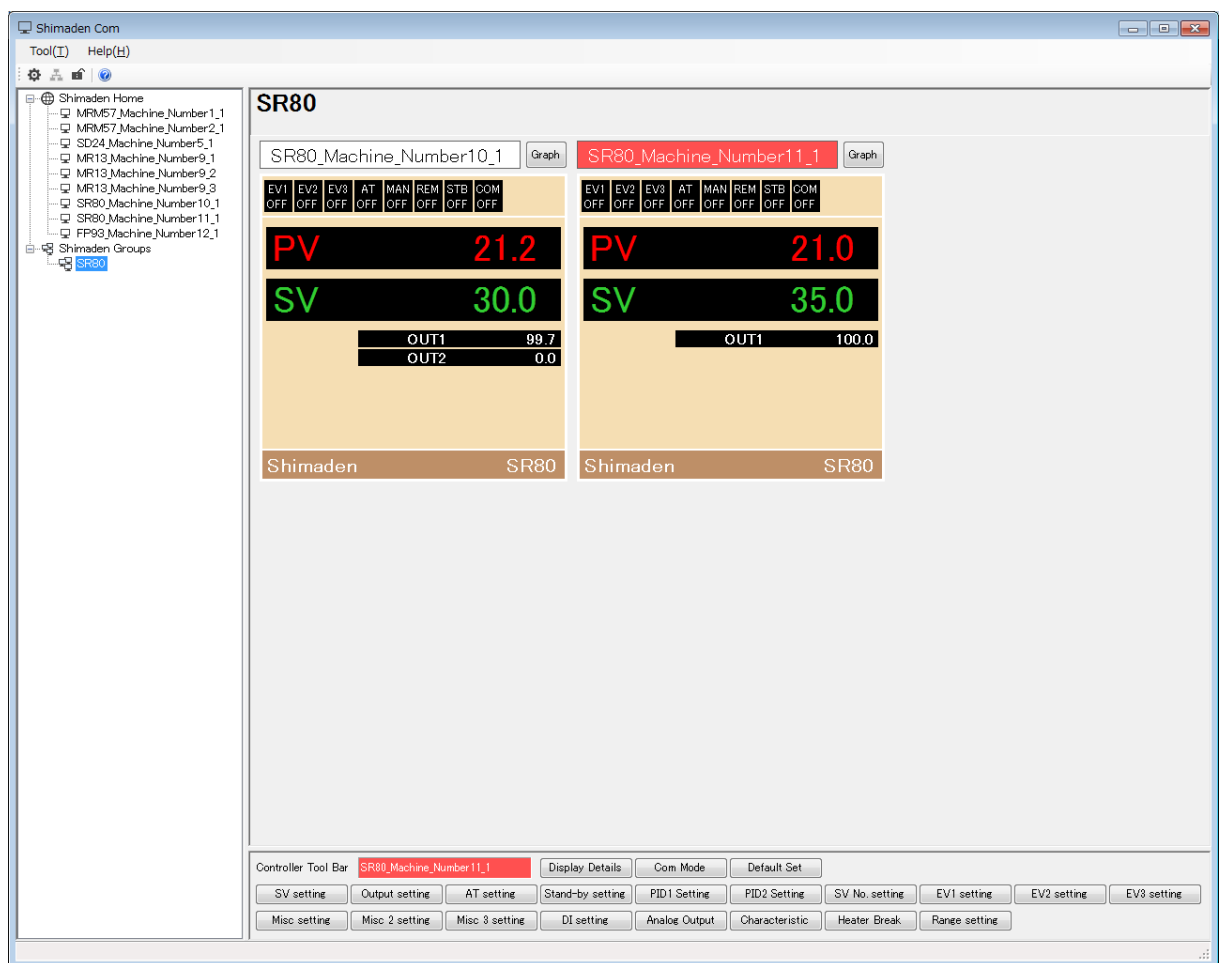
Select device code from the pull-down list. Set as given in the device code selection table.

SR80_Type

SR80 - 1 Y - Y - 90 - 1 14 3 5 1 0

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

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.

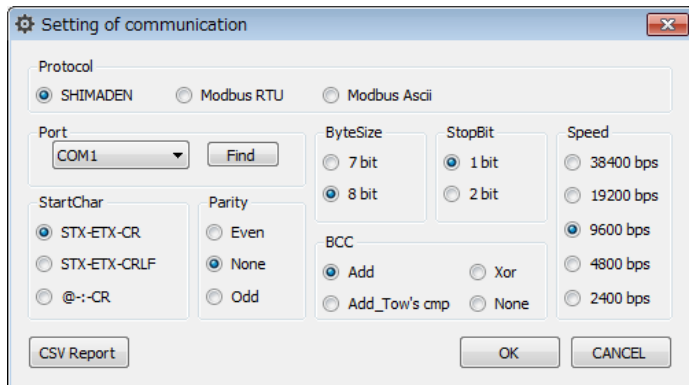
Toolbar of device displayed in red (controller buttons) is displayed at the bottom of the screen.

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



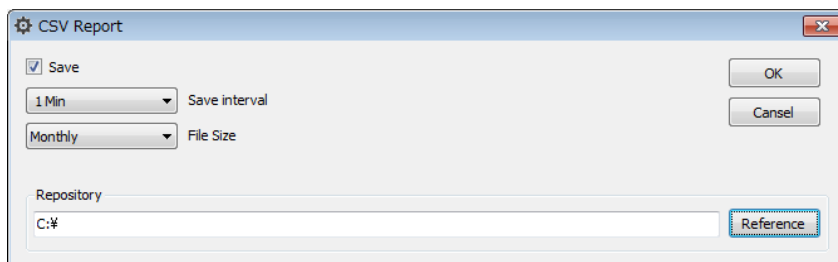
* Set communication settings for each device according to communication settings of **Shimaden Com.**

 : 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.”

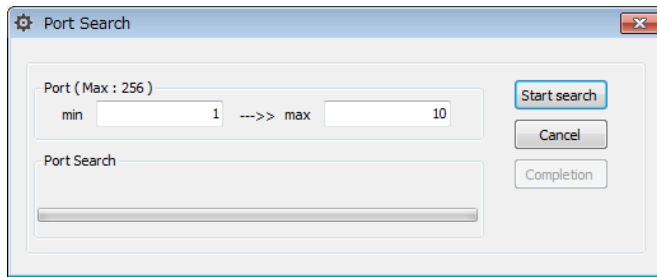
- Data save location

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

9-3. Port search

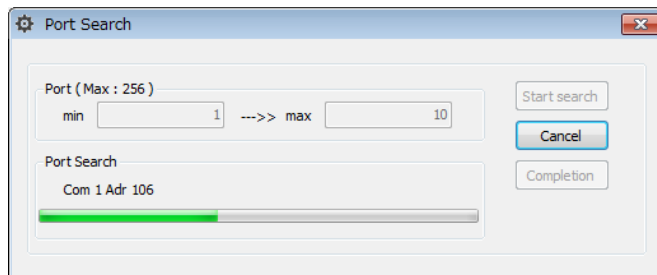
Starting the port search enables PC serial ports to be recognized.

Step 1: Port search start



You can set ports to be searched for (1–256).
Click the **Start search** button to search for ports.

Step 2: Port search in progress



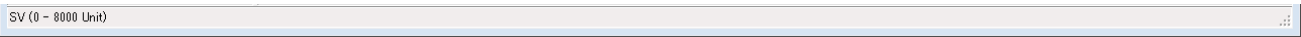
Step 3: Port search completion



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

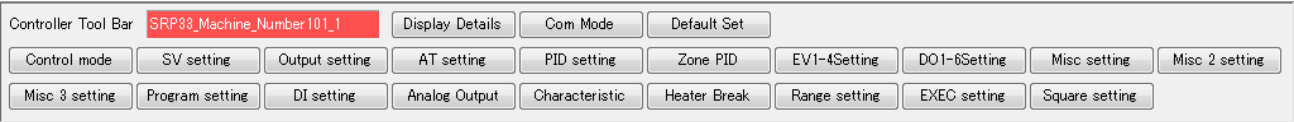
10. Device setting screen

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



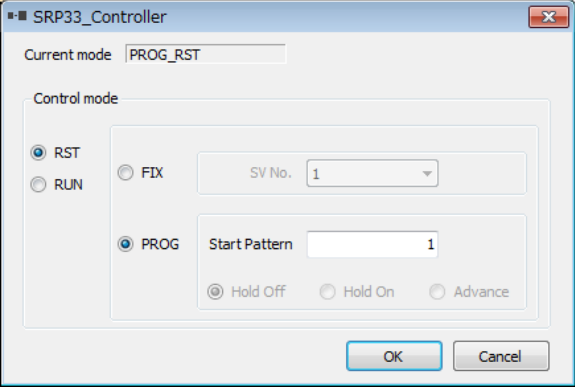
10-1. SRP33 Dialog Boxes

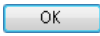

Toolbar

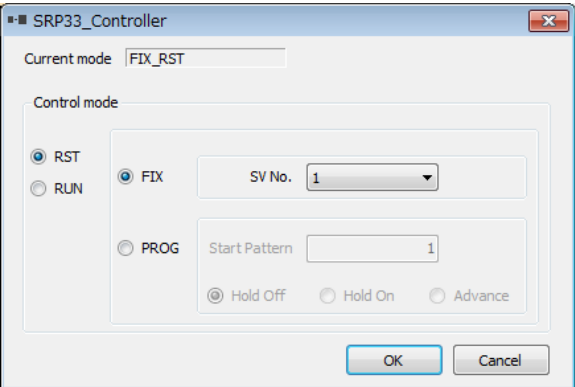




Control mode

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

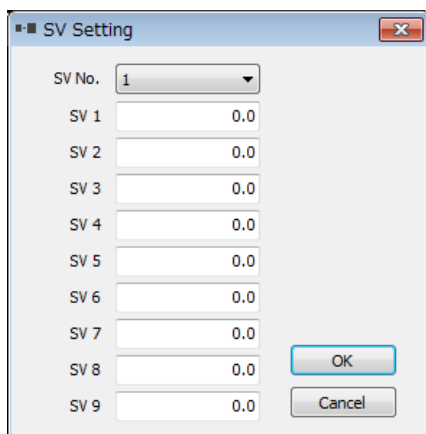


Program starts by RUN and  button.
Program stops by RST and  button.




Fixed position control starts by RUN and  button.
Fixed position control stops by RST and  button.

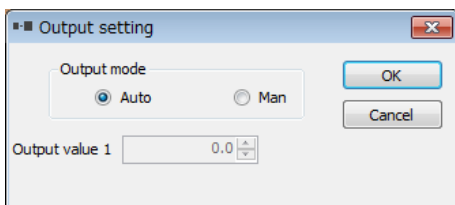
SV settings




The 'SV Setting' dialog box features a title bar with a close button. It contains a dropdown menu for 'SV No.' set to '1'. Below this are nine input fields labeled 'SV 1' through 'SV 9', each with a value of '0.0'. At the bottom right, there are 'OK' and 'Cancel' buttons.

SV value and PID No. settings in FIX mode
Click the  button to export data to device.

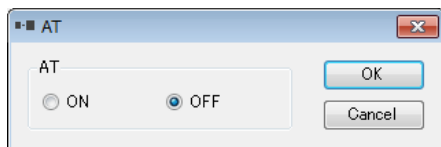
Output setting (toggles between automatic and manual output)




The 'Output setting' dialog box has a title bar with a close button. It includes a section for 'Output mode' with two radio buttons: 'Auto' (selected) and 'Man'. Below this is a numeric input field for 'Output value 1' with a value of '0.0'. 'OK' and 'Cancel' buttons are located at the bottom right.

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.

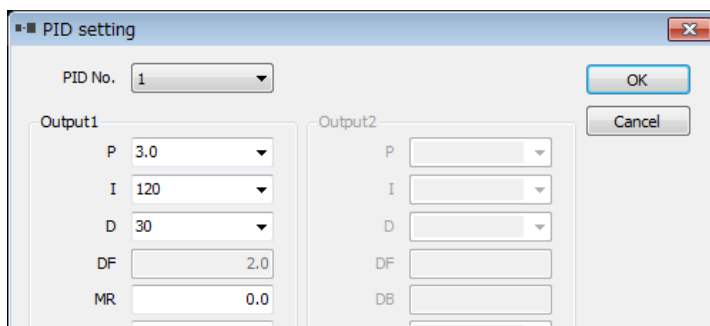
AT setting




The 'AT' dialog box has a title bar with a close button. It contains two radio buttons: 'ON' and 'OFF' (selected). 'OK' and 'Cancel' buttons are positioned at the bottom right.

ON sets auto tuning, and OFF cancels it.
Click the  button to export data to device.

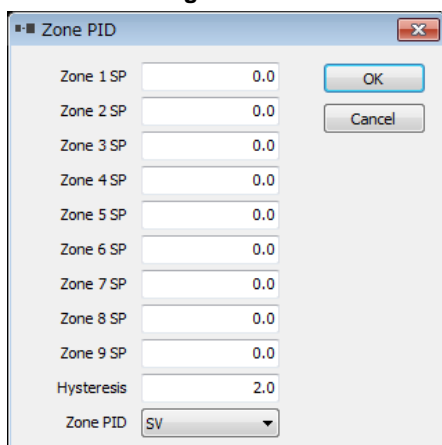
PID settings



The 'PID setting' dialog box features a title bar with a close button. It includes a dropdown menu for 'PID No.' set to '1'. The main area is divided into two columns: 'Output1' and 'Output2'. 'Output1' has five input fields: 'P' (3.0), 'I' (120), 'D' (30), 'DF' (2.0), and 'MR' (0.0). 'Output2' has five empty input fields for 'P', 'I', 'D', 'DF', and 'DB'. 'OK' and 'Cancel' buttons are at the bottom right.

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

Zone PID settings




The 'Zone PID' dialog box contains a list of nine zones, each with a 'Set Point' (SP) input field, all currently set to 0.0. Below the zones is a 'Hysteresis' input field set to 2.0 and a 'Zone PID' dropdown menu currently set to 'SV'. 'OK' and 'Cancel' buttons are located on the right side of the dialog.

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 for EV1, EV2, EV3, and EV4. Each section contains the following parameters: Event Mode (dropdown), Set Value (input), hysteresis (input), Stand-by action (dropdown), Delay time (dropdown), Output characteristic (dropdown), and Latching (dropdown).
EV1: Event Mode 'Hd', Set Value 200.0, hysteresis 2.0, Stand-by action 'OFF', Delay time 33, Output characteristic 'N.O.', Latching 'OFF'.
EV2: Event Mode 'Ld', Set value -199.9, hysteresis 2.0, Stand-by action 'OFF', Delay time 'OFF', Output characteristic 'N.O.', Latching 'ON'.
EV3: Event Mode 'Run', Set value 200.0, hysteresis 2.0, Stand-by action 'OFF', Delay time 'OFF', Output characteristic 'N.O.', Latching 'OFF'.
EV4: Event Mode 'non', Set value 200.0, hysteresis 2.0, Stand-by action 'OFF', Delay time 'OFF', Output characteristic 'N.O.', Latching 'OFF'.
'OK' and 'Cancel' buttons are at the bottom right.

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

DO settings

The DO Setting dialog box contains six panels, each for a digital output (DO1 to DO6). Each panel includes the following settings:

- DO Mode:** non
- Set Value:** 200.0 (for DO1-DO3) or 0.0 (for DO4-DO6)
- hysteresis:** 2.0 (for DO1-DO3) or 0.0 (for DO4-DO6)
- Stand-by action:** OFF
- Delay time:** OFF
- Output characteristic:** N.O.
- Latching:** ON (for DO1-DO3) or OFF (for DO4-DO6)

At the bottom right, there are **OK** and **Cancel** buttons.

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

Various settings

The Various setting dialog box includes 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 for **OK** and **Cancel** are located on the right side.

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

Various 2 settings

The various 2 setting dialog box includes the following settings:

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

Buttons for **OK** and **Cancel** are located on the right side.

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

Various 3 settings

bar 1 displayout1

bar 2 displayout1

bar 1 scaling0.1

bar 2 scaling0.1

Differential Gap ModeCENTER

Event ON/OFF at ResetOFF

Program End Signal Time1

Move to FIX at program endOFF

sampling cycle50ms

OK

Cancel

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

Program settings

Program modeFIX

No. of pattern9

Start pattern1

Pattern setting

Time unitH/M

Power failure modeOFF

FIX setting

SV No.1

SV1 Set value0.0

SV2 Set value0.0

SV3 Set value0.0

SV4 Set value0.0

SV5 Set value0.0

SV6 Set value0.0

SV7 Set value0.0

SV8 Set value0.0

SV9 Set value0.0

Pattern 1

Pattern 2

Pattern 3

Pattern 4

Pattern 5

Pattern 6

Pattern 7

Pattern 8

Pattern 9

Setting confirmation

OK

Cancel

- Pattern 1

Pattern 2

Pattern 3

Pattern 4

Pattern 5

Pattern 6

Pattern 7

Pattern 8

Pattern 9

Setting confirmation

: Creates/edits pattern 1.

: Creates/edits pattern 2.

: Creates/edits pattern 3.

: Creates/edits pattern 4.

: Creates/edits pattern 5.

: Creates/edits pattern 6.

: Creates/edits pattern 7.

: Creates/edits pattern 8.

: Creates/edits pattern 9.

: Displays list of data entered.

Set program parameters and click the  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

Pattern1

Pattern information

Start step1Start SV0.0GUA ZoneOFFStep repeat start step1

End step20PV startOFFGUA Time00:00Step repeat end step20

No. of execution1Step repeat number of executions1

Event

Pattern Information Copy

Copy

OK

Cancel

Step information

020

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

OK

 button to update input data.
Click the

Event

 button to set event.

Pattern/event settings

Pattern Event Setting

Event

OK

Cancel

EV1200.0

EV2-199.9

EV3200.0

EV4200.0

DO1-3

DO10.0

DO20.0

DO30.0

DO4-6

DO40.0

DO50.0

DO60.0

Click the

OK

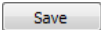
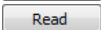
 button to update input data.

Program/parameter settings

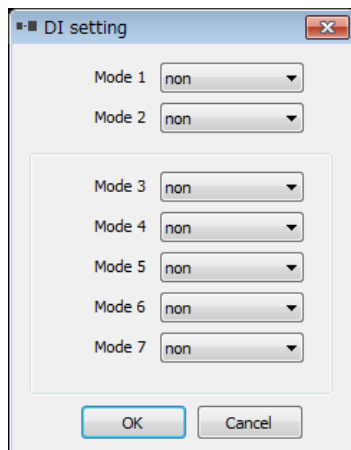
Program parameter

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

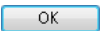
Close

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

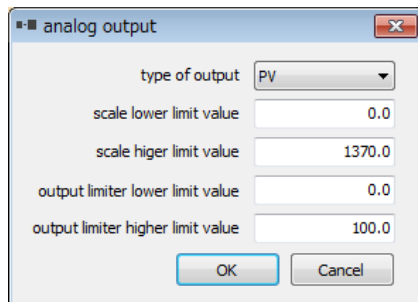
DI settings



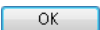
The "DI setting" dialog box contains seven mode settings, each with a dropdown menu currently set to "non". The modes are labeled Mode 1 through Mode 7. At the bottom of the dialog are "OK" and "Cancel" buttons.

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

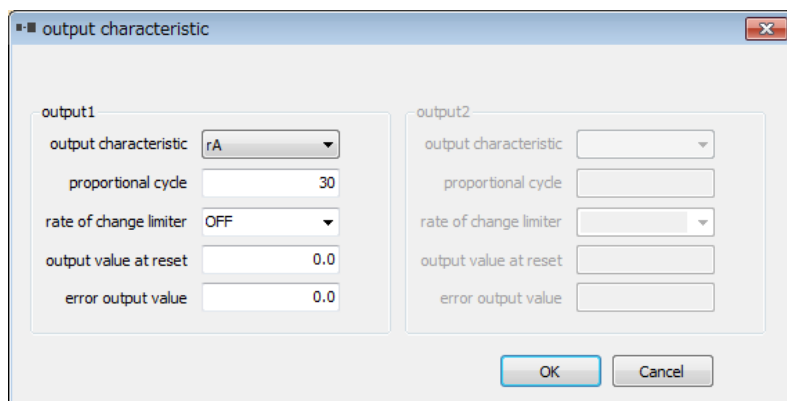
Analog output settings




The "analog output" dialog box features a "type of output" dropdown set to "PV". Below this are four input fields for scale and output limiter limits: "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). "OK" and "Cancel" buttons are at the bottom.

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

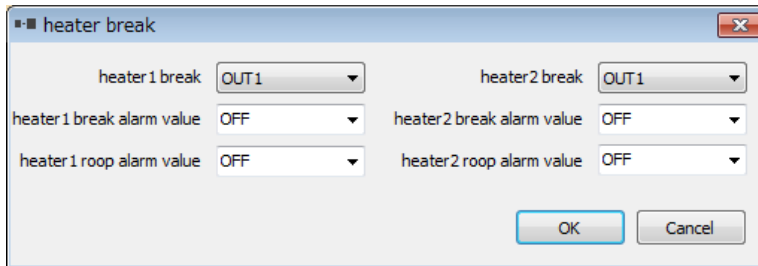
Output characteristics settings



The "output characteristic" dialog box is divided into two panels, "output1" and "output2". The "output1" panel has five settings: "output characteristic" (dropdown set to "rA"), "proportional cycle" (input field 30), "rate of change limiter" (dropdown set to "OFF"), "output value at reset" (input field 0.0), and "error output value" (input field 0.0). The "output2" panel has the same five settings but with empty input fields and dropdowns. "OK" and "Cancel" buttons are at the bottom.

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

Heater break settings



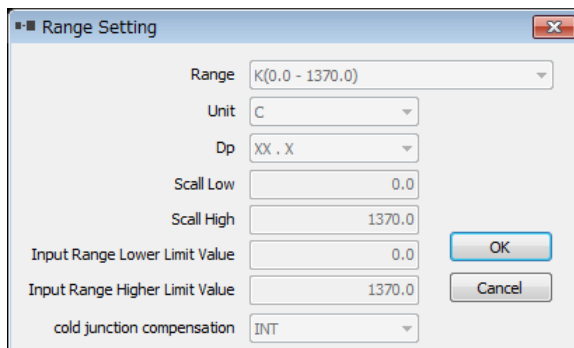
The 'heater break' dialog box contains the following settings:

Parameter	Value
heater1 break	OUT1
heater2 break	OUT1
heater1 break alarm value	OFF
heater2 break alarm value	OFF
heater1 roop alarm value	OFF
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 settings:

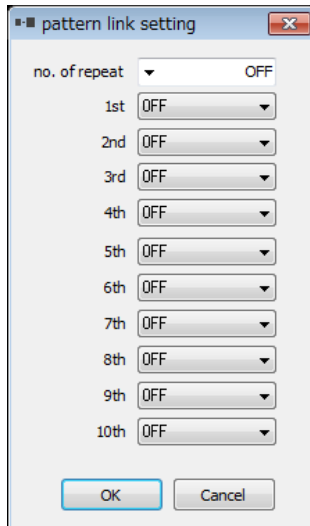
Parameter	Value
Range	K(0.0 - 1370.0)
Unit	C
Dp	XX . X
Scall Low	0.0
Scall High	1370.0
Input Range Lower Limit Value	0.0
Input Range Higher Limit Value	1370.0
cold junction compensation	INT

Buttons: OK, Cancel

Range parameters check

* Cannot be entered

Pattern link settings



The 'pattern link setting' dialog box contains the following settings:

Parameter	Value
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 cut1.0

ten segment linearizer approximation

modeOFF

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

OK

 button to export data to device.

10-2. SD24 Dialog Boxes

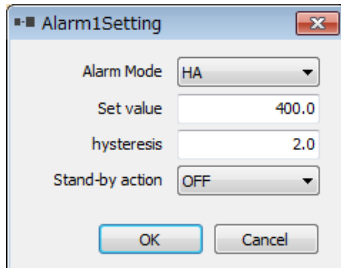
Toolbar



Controller Tool Bar SD24_Machine_Number5_1 Display Details Com Mode Default Set

Alarm setting Alarm 1 setting Alarm 2 setting Alarm 3 setting Alarm 4 setting DI setting Misc setting Range setting Square setting

Alarm 1, 2, 3, 4 settings



Alarm1Setting


Alarm Mode HA

Set value 400.0

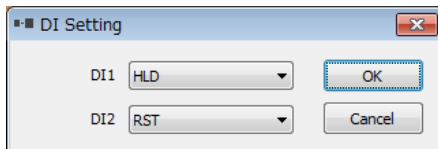
hysteresis 2.0

Stand-by action OFF

OK Cancel

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

DI settings




DI Setting

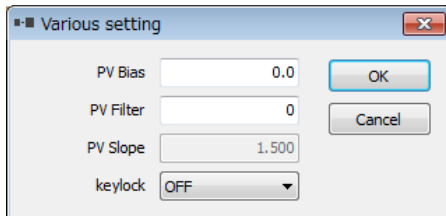
DI1 HLD

DI2 RST

OK Cancel

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

Various settings



Various setting


PV Bias 0.0

PV Filter 0

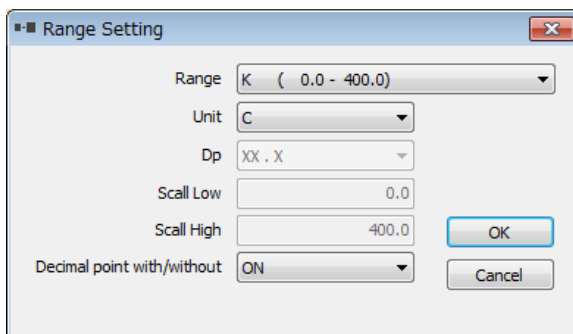
PV Slope 1.500

keylock OFF

OK Cancel

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

Range settings



Range Setting

Range K (0.0 - 400.0)

Unit C

Dp XX.X

Scale Low 0.0

Scale High 400.0

Decimal point with/without ON

OK Cancel

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

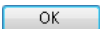
ten segment linearizer input

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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