

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.

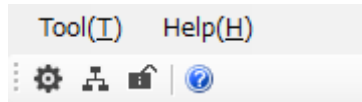
The first time you launch **Shimaden Com**, it is necessary to start Search-device for recognizing each device on the serial port of the PC.


3-2. Quit


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

4. Toolbar


The functions of the toolbar are as follows:



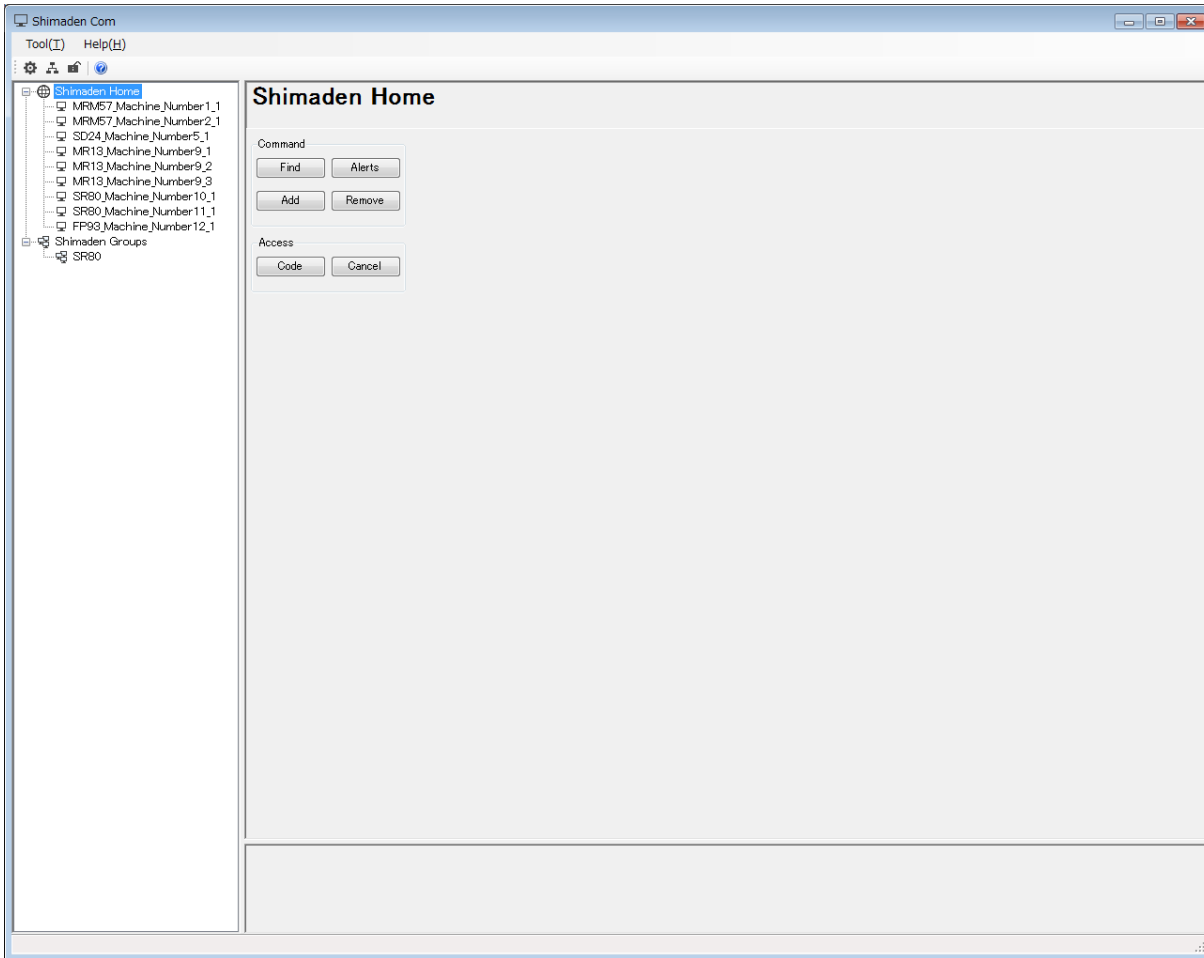
 : Sets **Shimaden Com** communication settings and CSV data log (record) settings.

 : **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.
- : 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

Communication condition

Port	Speed	BCC	StartChar
COM 10	9600 bps	Add	STX-ETX-CR
ByteSize	StopBit	Parity	Protocol
7 bit	1 bit	Even	SHIMADEN

Address (Max : 255)
min 1 --->> max 20

Start search
Cancel
Completion

* You can set addresses to be searched for (1–255).

Clicking the **Start search** button starts search device.

Step 2: Searching

Communication condition

Port	Speed	BCC	StartChar
COM 10	9600 bps	Add	STX-ETX-CR
ByteSize	StopBit	Parity	Protocol
7 bit	1 bit	Even	SHIMADEN

Address (Max : 255)
min 1 --->> max 20

Start search
Cancel
Completion

No.	Type
1	MRM57
2	MRM57

Step 3: Search completion

Communication condition

Port	Speed	BCC	StartChar
COM 10	9600 bps	Add	STX-ETX-CR
ByteSize	StopBit	Parity	Protocol
7 bit	1 bit	Even	SHIMADEN

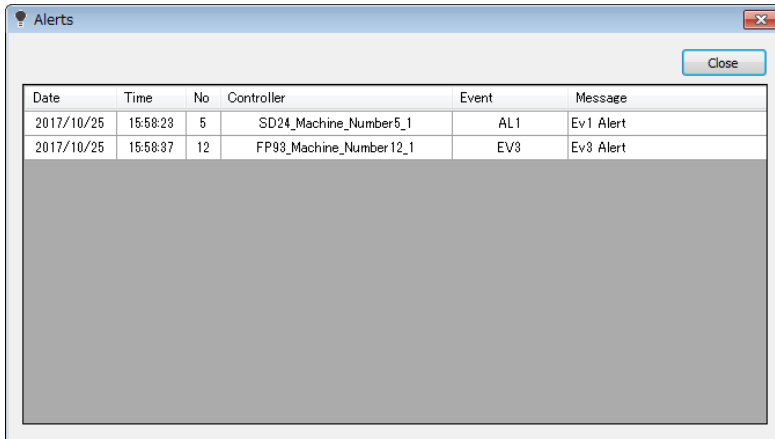
Address (Max : 255)
min 1 --->> max 20

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

5-2. Alarm notification screen (Alerts)

A screenshot of the 'Alerts' window. It has a title bar with a light bulb icon and the word 'Alerts'. There is a 'Close' button in the top right corner. Below the title bar is a table with the following data:

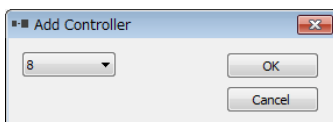
Date	Time	No	Controller	Event	Message
2017/10/25	15:58:23	5	SD24_Machine_Number5_1	AL1	Ev1 Alert
2017/10/25	15:58:37	12	FP93_Machine_Number12_1	EV3	Ev3 Alert

Below the table is a large grey rectangular area.

* 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)

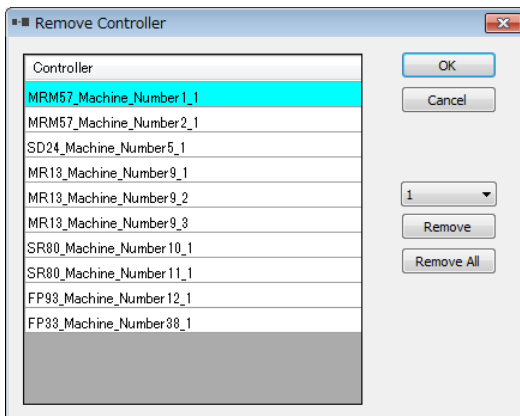
You can add device of address selected in the combo box.


A screenshot of the 'Add Controller' dialog box. It has a title bar with a small icon and the text 'Add Controller'. Inside, there is a dropdown menu showing the number '8'. To the right of the dropdown are two buttons: 'OK' and '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.

A screenshot of the 'Remove Controller' dialog box. It has a title bar with a small icon and the text 'Remove Controller'. On the left is a list box containing the following controller names: 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, and FP33_Machine_Number30_1. The first item, 'MRM57_Machine_Number1_1', is highlighted in blue. To the right of the list box are four buttons: 'OK', 'Cancel', 'Remove', and 'Remove All'. Below the 'Cancel' button is a dropdown menu showing the number '1'.

 : Deletes selected device.

 : Deletes all devices.

5-5. Password (access) setting

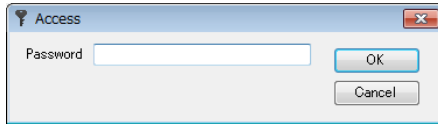
Setting a password (code) enhances security of **Shimaden Com**.

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.

A small dialog box titled "Access" with a close button (X) in the top right corner. It contains a text input field labeled "Password" and two buttons: "OK" and "Cancel".

Password setting

Select  (passwords) from toolbar at top of window.

A dialog box titled "Passwords" with a close button (X) in the top right corner. It contains three sections for setting passwords: "Passwords-Controller Buttons", "Passwords-Program Setup", and "Passwords-Program Close". Each section has a "Password" field (masked with asterisks), a "New Password" button, and an "OK" button. The "Program Close" section also has a checkbox labeled "Use Password To Close".

Controller Button: Protects controller button by password.

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

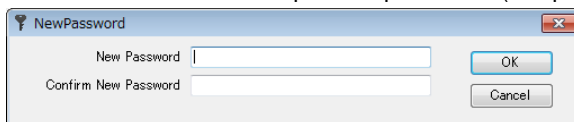
Program Close: Requires password to quit program.

* 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.

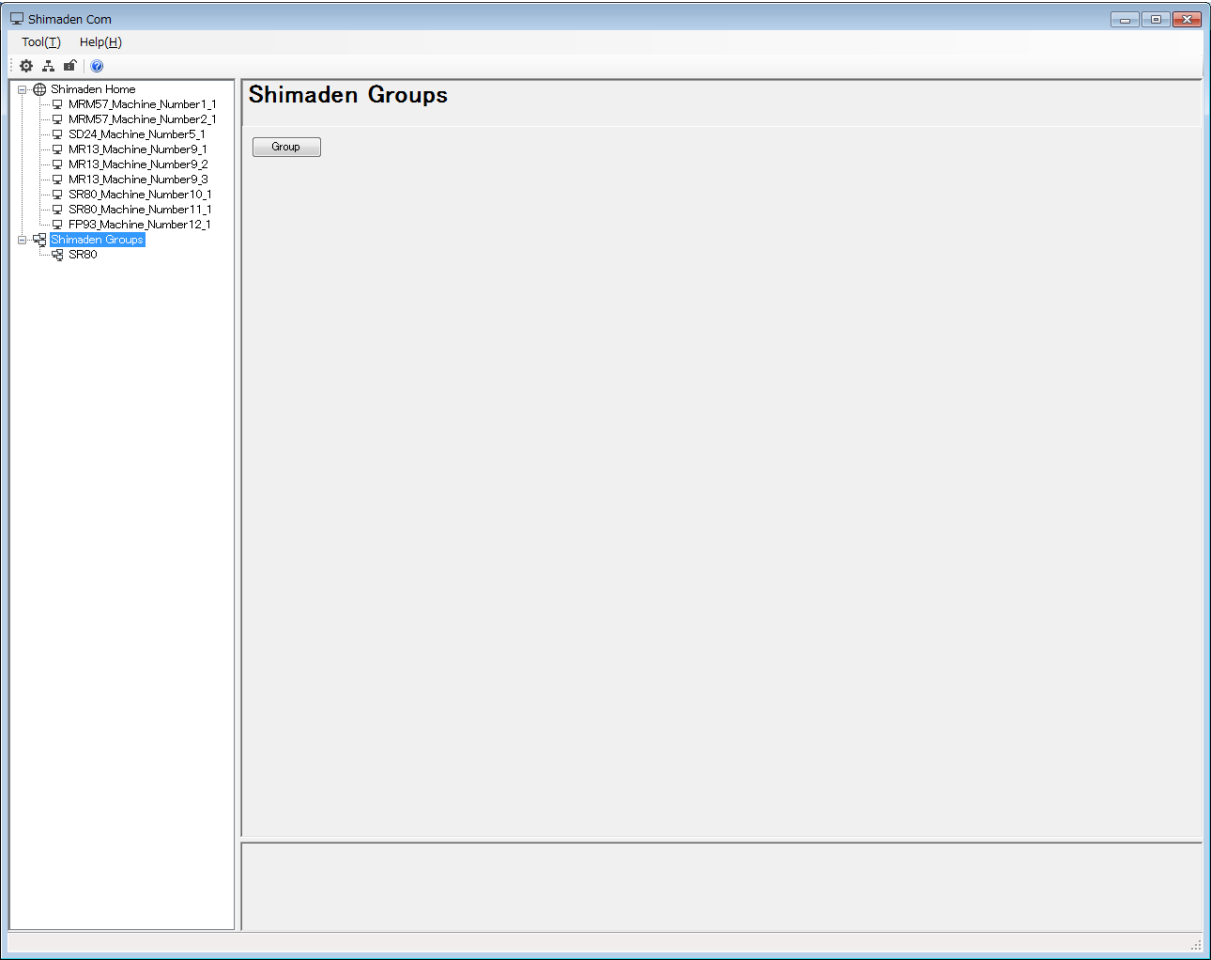
Initial password


Controller Button	sr25
Program Setup	setup
Program Close	systemclose

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

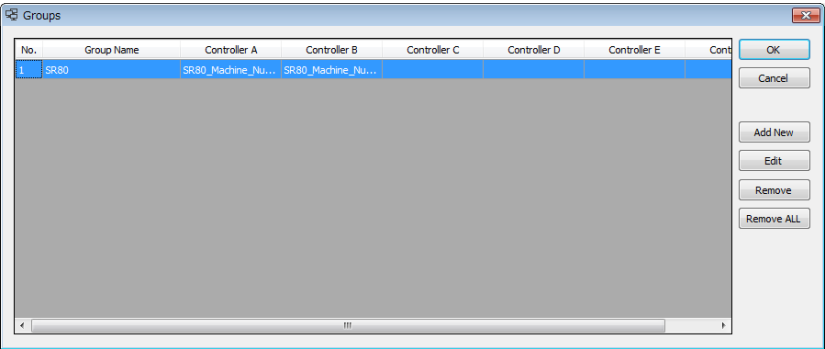
A dialog box titled "NewPassword" with a close button (X) in the top right corner. It contains two text input fields: "New Password" and "Confirm New Password". There are "OK" and "Cancel" buttons.





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.
 : Adds/deletes group.

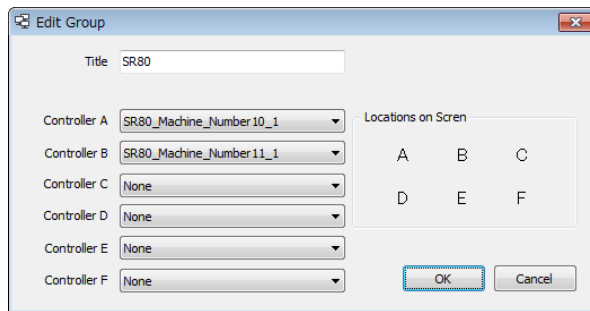
6-1. Add/delete group



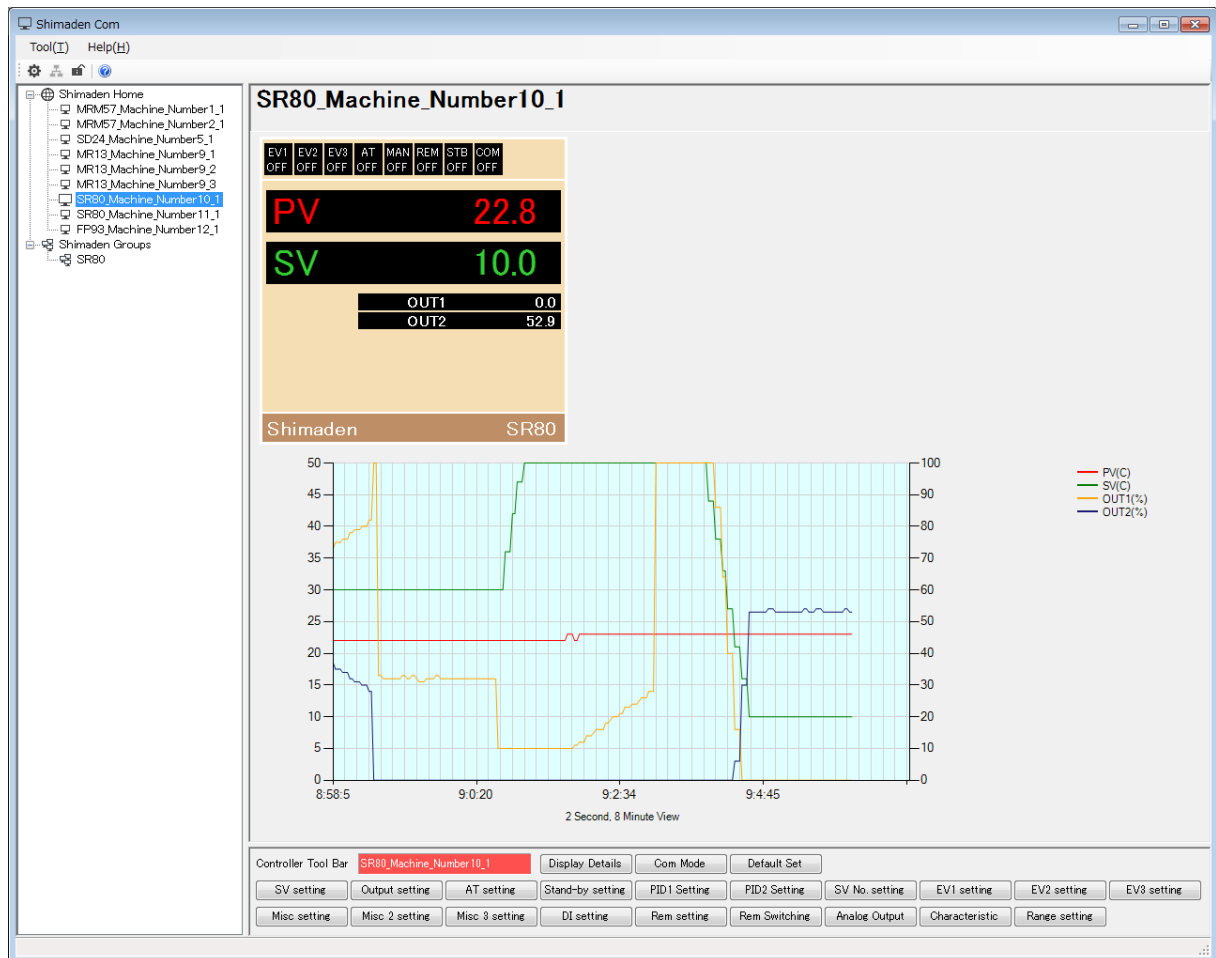
-  : Creates group.
-  : Edits selected group.
-  : Deletes selected group.
-  : Deletes all groups.

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)

DisplayDetails

ControllerSR80OK

TitleSR80_Machine_Number10_1Cancel

Units0 - NonAlert

Decimal Point1 - X.XX(Supplied by Controller)Type

Trend Graph Details

50Top of GraphClear Graph

0Bottom of Graph

2 Second, 8 Minute ViewRecord Rate

- 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

☒ EV1Ev1 AlertOK

☒ EV2Ev2 AlertCancel

☒ EV3Ev3 Alert

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

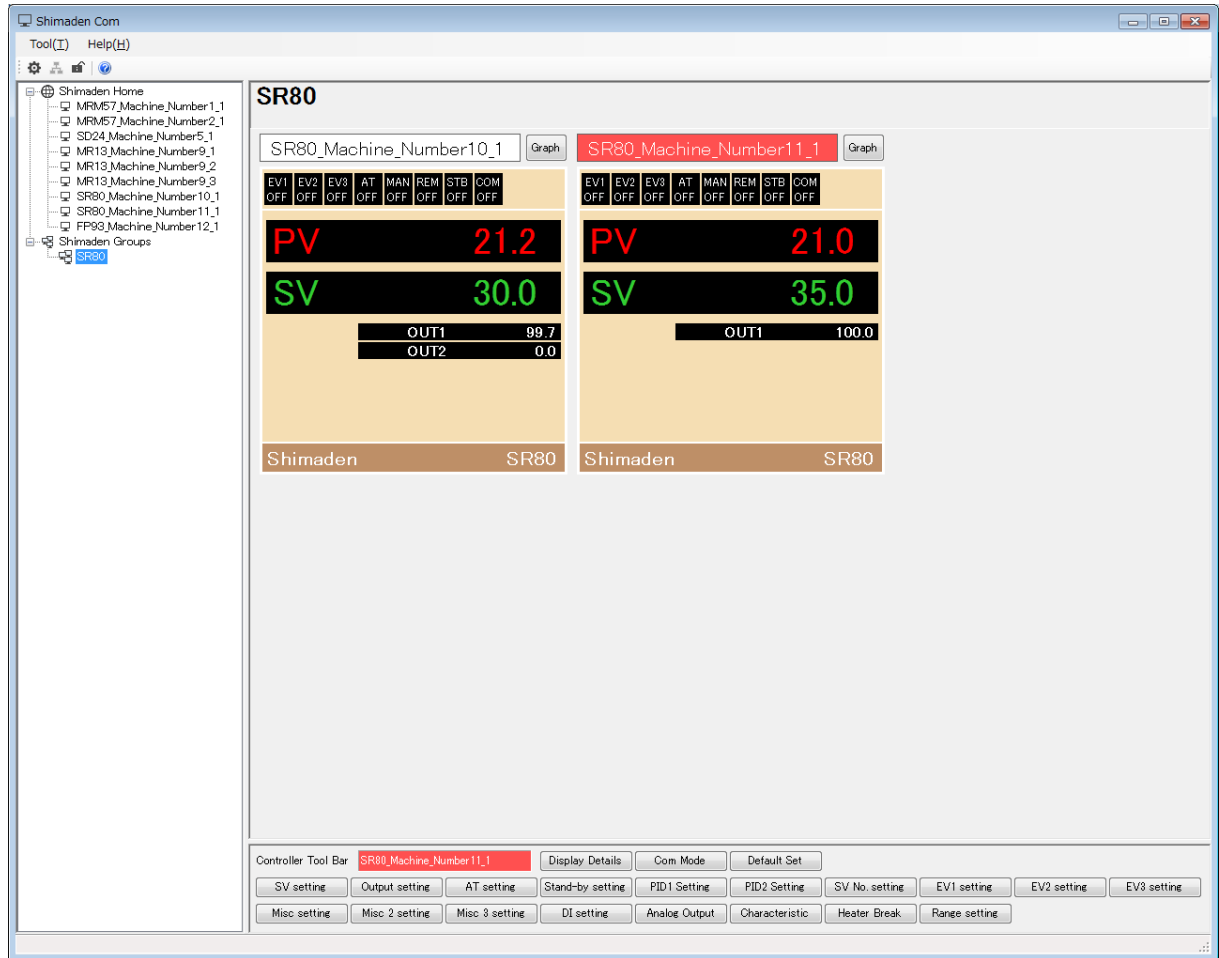
SR80 - 1 Y - Y - 90 - 1 14 3 5 1 0

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
external input (DI)/sv bias	1. with
remarks	0: none

OK

Cancel

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.

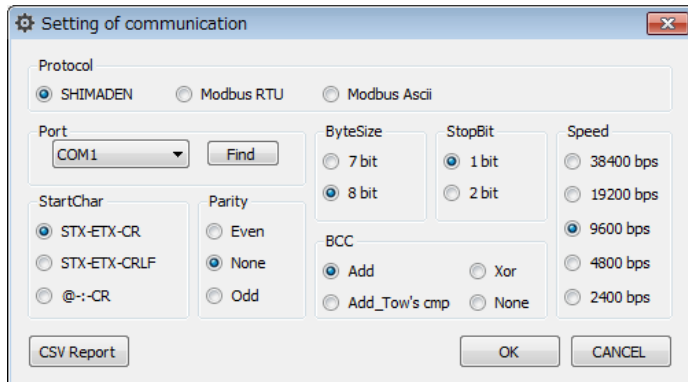
Toolbar of device displayed in red (controller buttons) is displayed at the bottom of the screen.

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



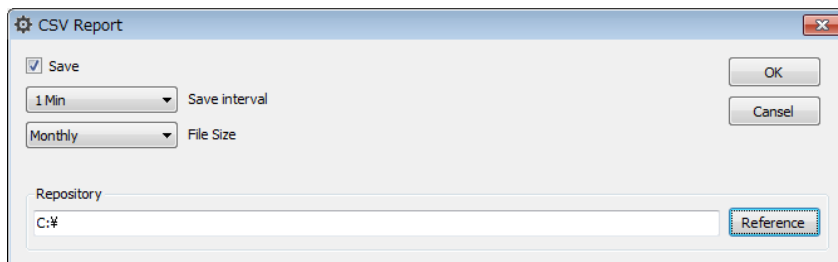
* Set communication settings for each device according to communication settings of **Shimaden Com.**

 : 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.”

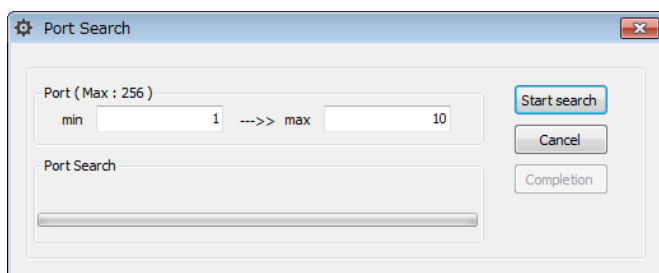
▪ Data save location

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.

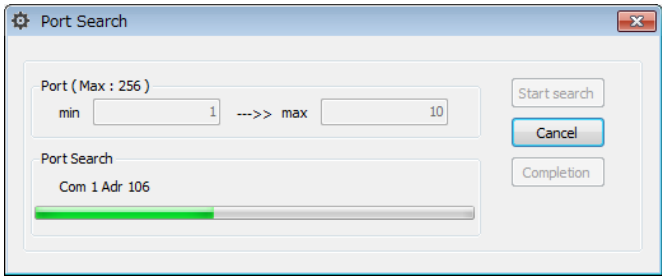
Step 1: Port search start



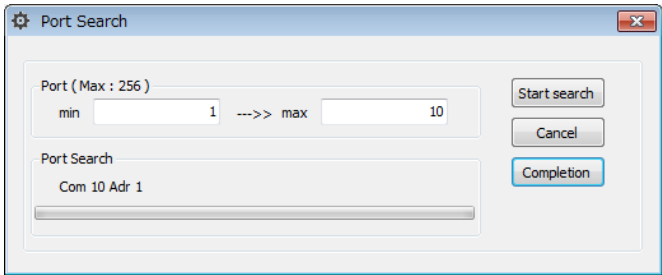
You can set ports to be searched for (1–256).

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.

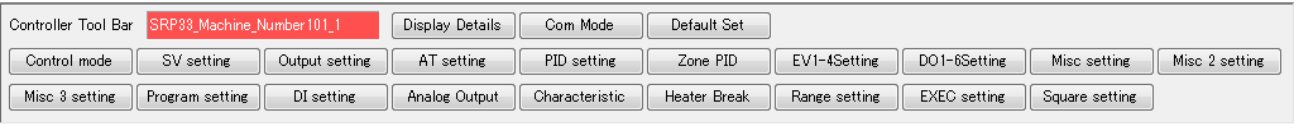
10. Device setting screen

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



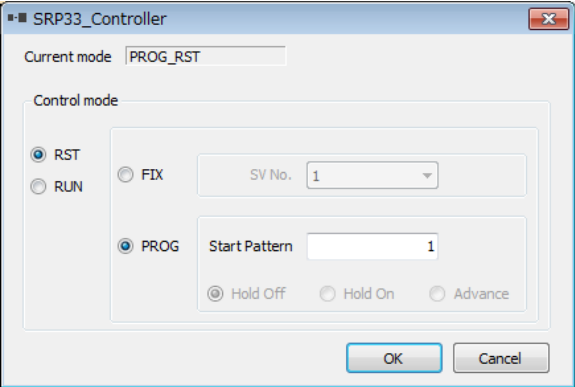
10-1. SRP33 Dialog Boxes


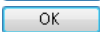
Toolbar

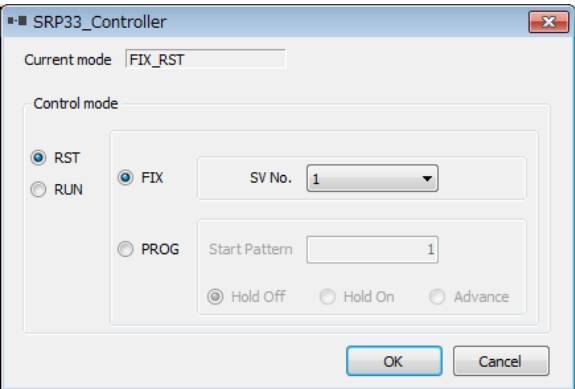




Control mode

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

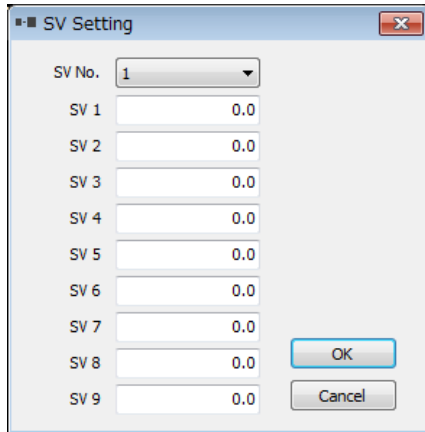


Program starts by RUN and  button.
Program stops by RST and  button.



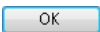
Fixed position control starts by RUN and  button.
Fixed position control stops by RST and  button.

SV settings

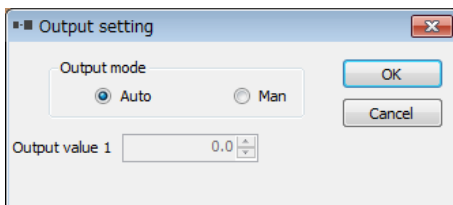


The 'SV Setting' dialog box features a title bar with a close button. It contains a dropdown menu for 'SV No.' set to '1'. Below this are nine rows, each with a label 'SV 1' through 'SV 9' and a corresponding numerical input field, all displaying '0.0'. At the bottom right, there are 'OK' and 'Cancel' 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)

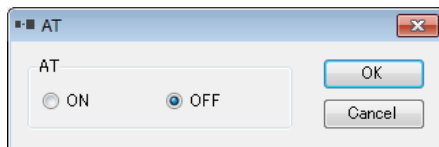


The 'Output setting' dialog box has a title bar with a close button. It includes a section for 'Output mode' with two radio buttons: 'Auto' (which is selected) and 'Man'. Below this is a numerical input field for 'Output value 1' showing '0.0'. 'OK' and 'Cancel' buttons are located at the bottom right.

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

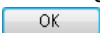
Click the  button to export data to device.

AT setting

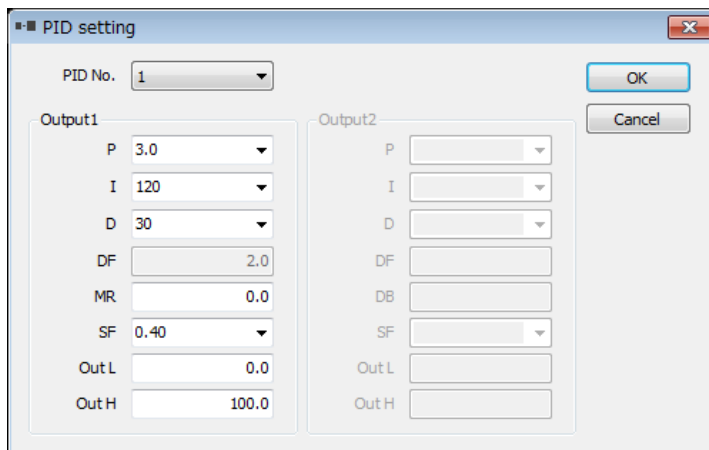


The 'AT' dialog box has a title bar with a close button. It contains a section for 'AT' with two radio buttons: 'ON' and 'OFF' (which is selected). 'OK' and 'Cancel' buttons are positioned at the bottom right.

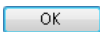
ON sets auto tuning, and OFF cancels it.

Click the  button to export data to device.

PID settings



The 'PID setting' dialog box features a title bar with a close button. It starts with a 'PID No.' dropdown set to '1'. The main area is divided into two columns: 'Output1' and 'Output2'. 'Output1' contains parameters P (3.0), I (120), D (30), DF (2.0), MR (0.0), SF (0.40), Out L (0.0), and Out H (100.0). 'Output2' contains parameters P, I, D, DF, DB, SF, Out L, and Out H, all with empty input fields. '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

Zone PID

Zone 1 SP

0.0

OK

Zone 2 SP

0.0

Cancel

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

Set zone PID parameters and click the

OK

 button to export data to device.

Event settings

Event Setting

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

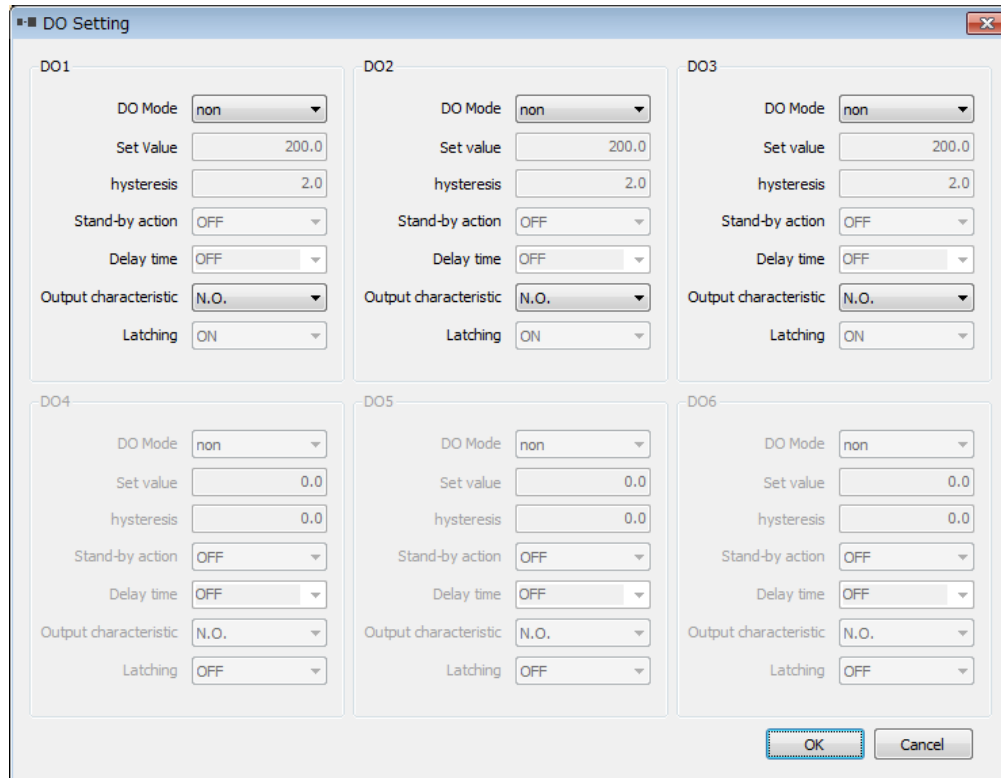
Cancel

Set event parameters and click the

OK

 button to export data to device.

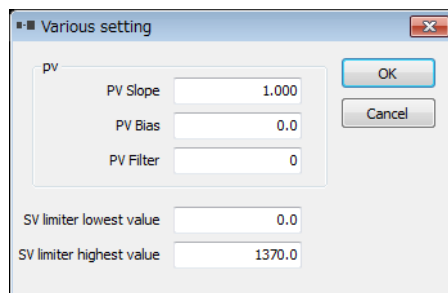
DO settings




The DO Setting dialog box contains six panels for DO1 through DO6. Each panel has the following fields: DO Mode (dropdown, set to 'non'), Set Value (text box, set to 200.0 for DO1-DO3 and 0.0 for DO4-DO6), hysteresis (text box, set to 2.0 for DO1-DO3 and 0.0 for DO4-DO6), Stand-by action (dropdown, set to 'OFF'), Delay time (dropdown, set to 'OFF'), Output characteristic (dropdown, set to 'N.O.'), and Latching (dropdown, set to 'ON' for DO1-DO3 and 'OFF' for DO4-DO6). At the bottom right are 'OK' and 'Cancel' buttons.

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

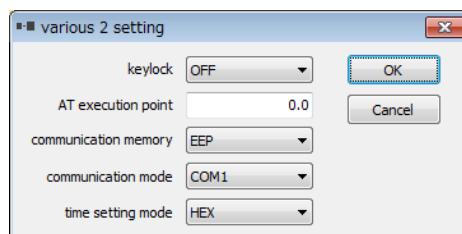
Various settings



The Various setting dialog box contains a 'pv' section with three fields: PV Slope (text box, set to 1.000), PV Bias (text box, set to 0.0), and PV Filter (text box, set to 0). Below this is an 'SV limiter' section with two fields: SV limiter lowest value (text box, set to 0.0) and SV limiter highest value (text box, set to 1370.0). At the bottom right are 'OK' and 'Cancel' buttons.

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 various 2 setting dialog box contains five fields: keylock (dropdown, set to 'OFF'), AT execution point (text box, set to 0.0), communication memory (dropdown, set to 'EEP'), communication mode (dropdown, set to 'COM1'), and time setting mode (dropdown, set to 'HEX'). At the bottom right are 'OK' and 'Cancel' buttons.

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

OK

Cancel

Differential Gap ModeCENTER

Event ON/OFF at ResetOFF

Program End Signal Time1

Move to FIX at program endOFF

sampling cycle50ms

Set various 3 parameters and click the

OK

 button to export data to device.

Program settings

Program modeFIX

No. of pattern9

Start pattern1

Pattern 1

Pattern 2

Pattern 3

Pattern 4

Pattern 5

Pattern 6

Pattern 7

Pattern 8

Pattern 9

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

Setting confirmation

OK

Cancel

- 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.

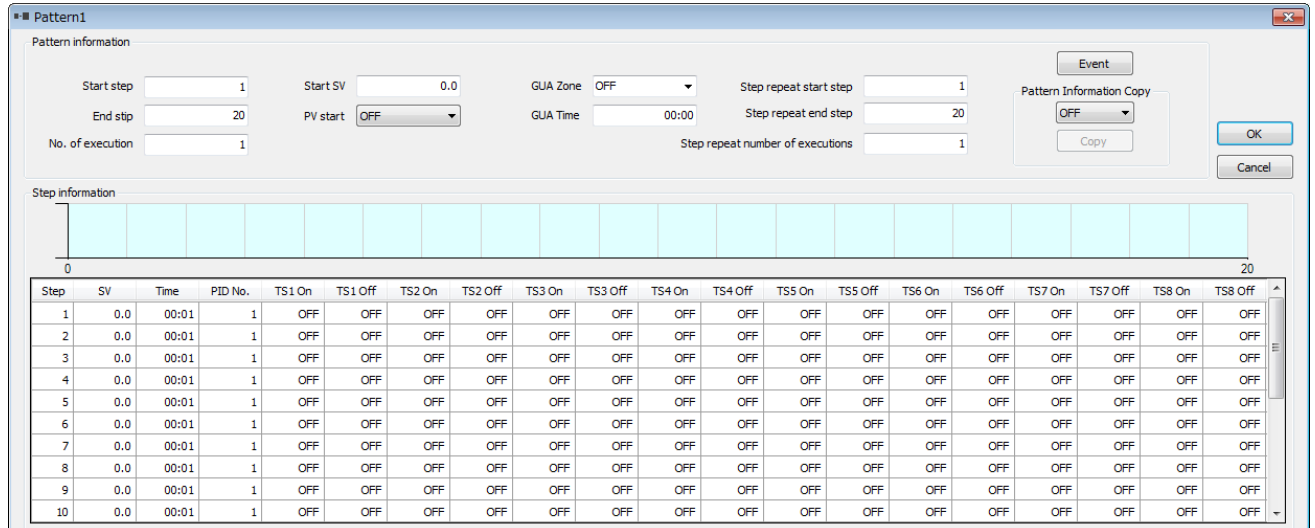
Set program parameters and click the

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



Pattern1

Pattern information

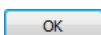
Start step: 1, Start SV: 0.0, GUA Zone: OFF, Step repeat start step: 1, Event: OFF, OK, Cancel


End step: 20, PV start: OFF, GUA Time: 00:00, Step repeat end step: 20, Pattern Information Copy: OFF, Copy

No. of execution: 1, Step repeat number of executions: 1

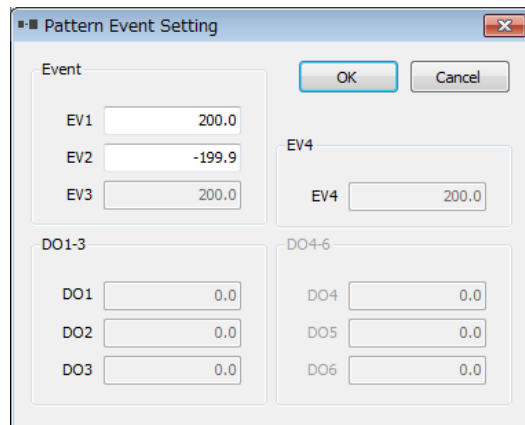
Step information

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



Pattern Event Setting

Event

EV1: 200.0, EV2: -199.9, EV3: 200.0, EV4: 200.0, OK, Cancel

DO1-3

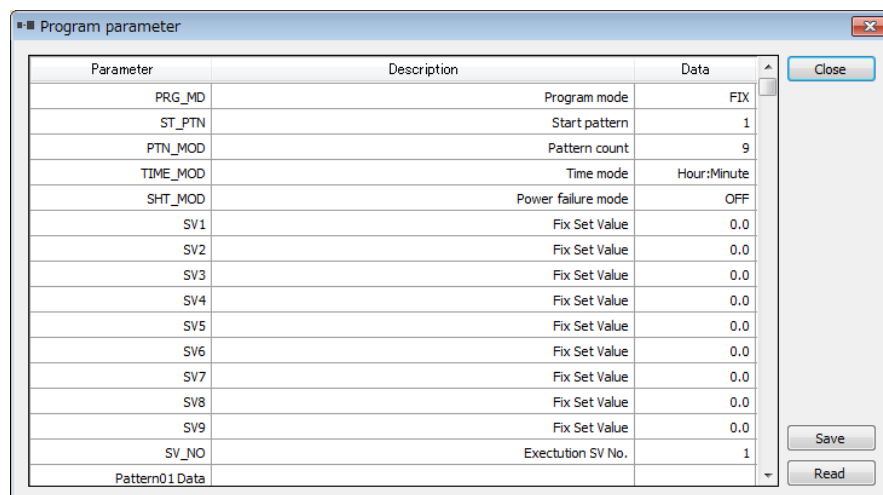
DO1: 0.0, DO2: 0.0, DO3: 0.0

DO4-6

DO4: 0.0, DO5: 0.0, DO6: 0.0

Click the  button to update input data.

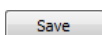
Program/parameter settings

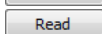


Program parameter

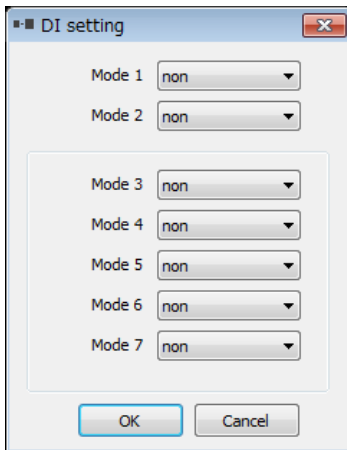
Parameter	Description	Data
PRG_MD	Program mode	FIX
ST_PTN	Start pattern	1
PTN_MOD	Pattern count	9
TIME_MOD	Time mode	Hour:Minute
SHT_MOD	Power failure mode	OFF
SV1	Fix Set Value	0.0
SV2	Fix Set Value	0.0
SV3	Fix Set Value	0.0
SV4	Fix Set Value	0.0
SV5	Fix Set Value	0.0
SV6	Fix Set Value	0.0
SV7	Fix Set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

Close, Save, Read


Click the  button to save the program parameters to a file.

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

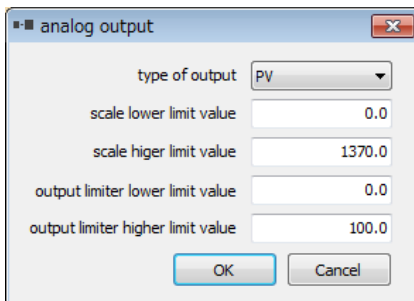
DI settings



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.

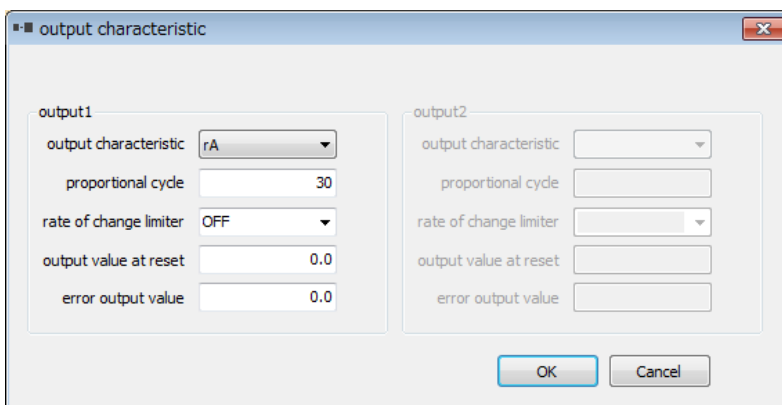
Analog output settings




The 'analog output' dialog box has a 'type of output' dropdown set to 'PV'. Below this are four input fields: '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.

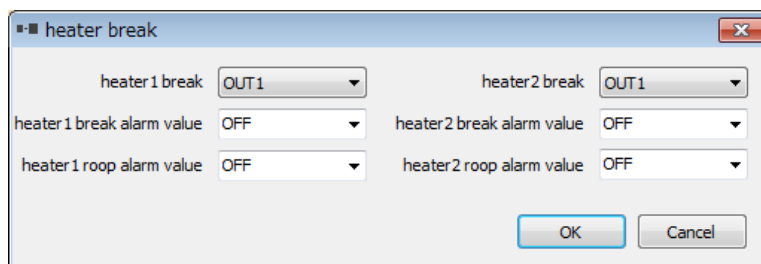
Output characteristics settings



The 'output characteristic' dialog box is divided into two sections: 'output1' and 'output2'. 'output1' has a dropdown for 'output characteristic' set to 'rA', and input fields for 'proportional cycle' (30), 'rate of change limiter' (OFF), 'output value at reset' (0.0), and 'error output value' (0.0). 'output2' has empty fields for the same parameters. '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 has settings for two heaters. For each heater, there is a dropdown for 'heater break' (both set to 'OUT1'), a dropdown for 'heater break alarm value' (both set to 'OFF'), and a dropdown for 'heater roop alarm value' (both set to 'OFF'). 'OK' and 'Cancel' buttons are at the bottom.

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

Range settings

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

OK

Cancel

Range parameters check

* Cannot be entered

Pattern link settings

pattern link setting

no. of repeat

OFF

1st

OFF

2nd

OFF

3rd

OFF

4th

OFF

5th

OFF

6th

OFF

7th

OFF

8th

OFF

9th

OFF

10th

OFF

OK

Cancel

Set pattern link parameters and click the

OK

 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

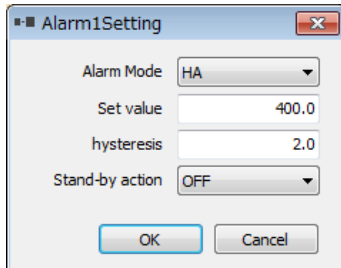
Toolbar



Controller Tool Bar: SD24_Machine_Number5_1

Buttons: 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

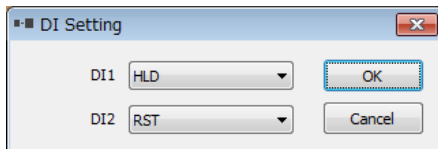
hysteresis: 2.0

Stand-by action: OFF

Buttons: OK, Cancel

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

DI settings




DI Setting

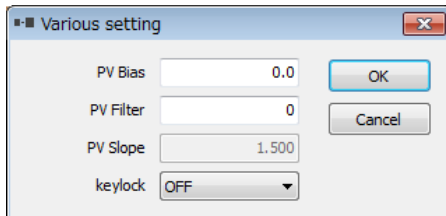
DI1: HLD

DI2: RST

Buttons: 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

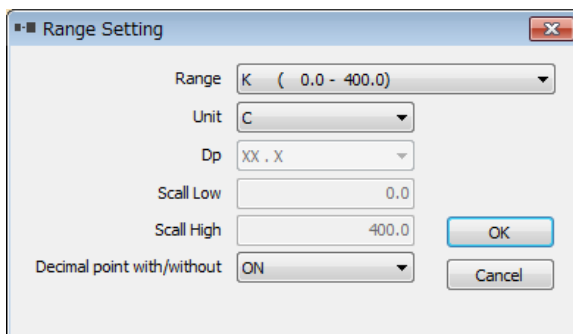
PV Slope: 1.500

keylock: OFF

Buttons: 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

Buttons: 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

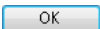
ten segment linearizer input

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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