

-How to operate SDC15 by using the PC configuration software

- Initial settings
- Operation with actual tools



➤ Initial Settings

- Preparation
 - Communication settings between PC and SDC15

- Setting for SDC15
 - (1) Model number setting
 - (2) Parameters setting
 - (3) Down load to SDC15

➤ Operation with actual tools

- How to start operation
 - Setting values
 - Start and abort Auto-tuning
 - Run / Ready switching

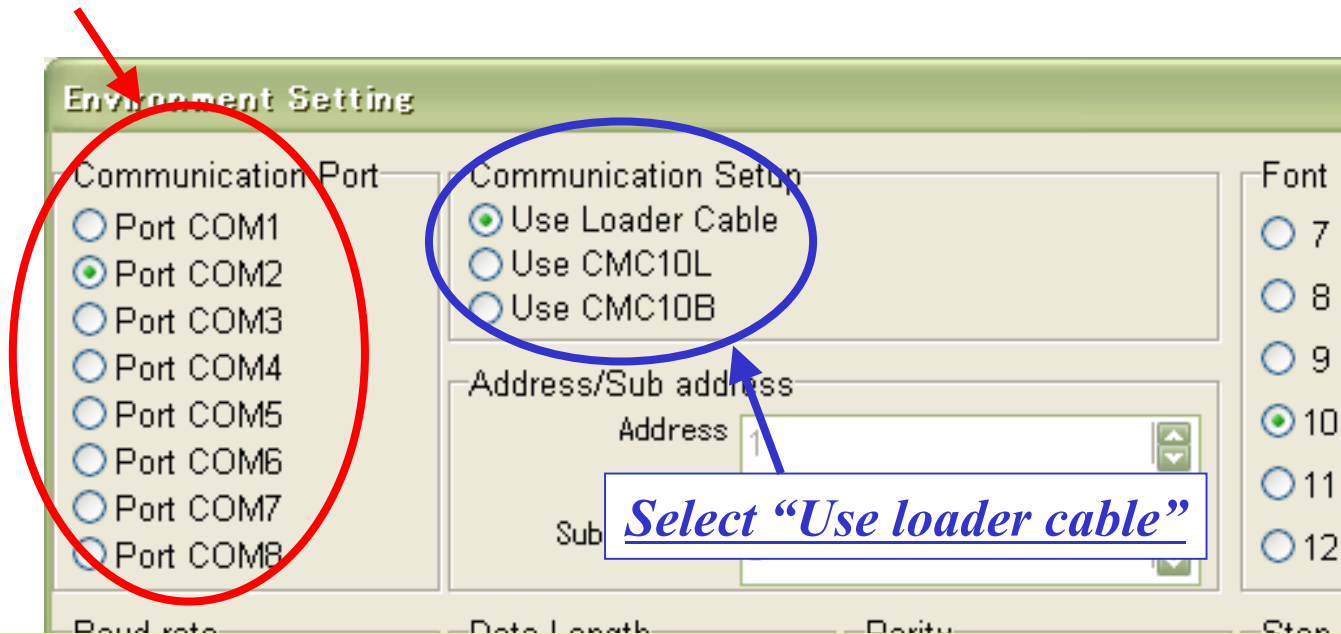
➤ Preparation

- Communication settings between PC and SDC15

➤ Procedure

- Select “Environment settings” in the Pull down menu “Option”

Select correct communication port of PC you use

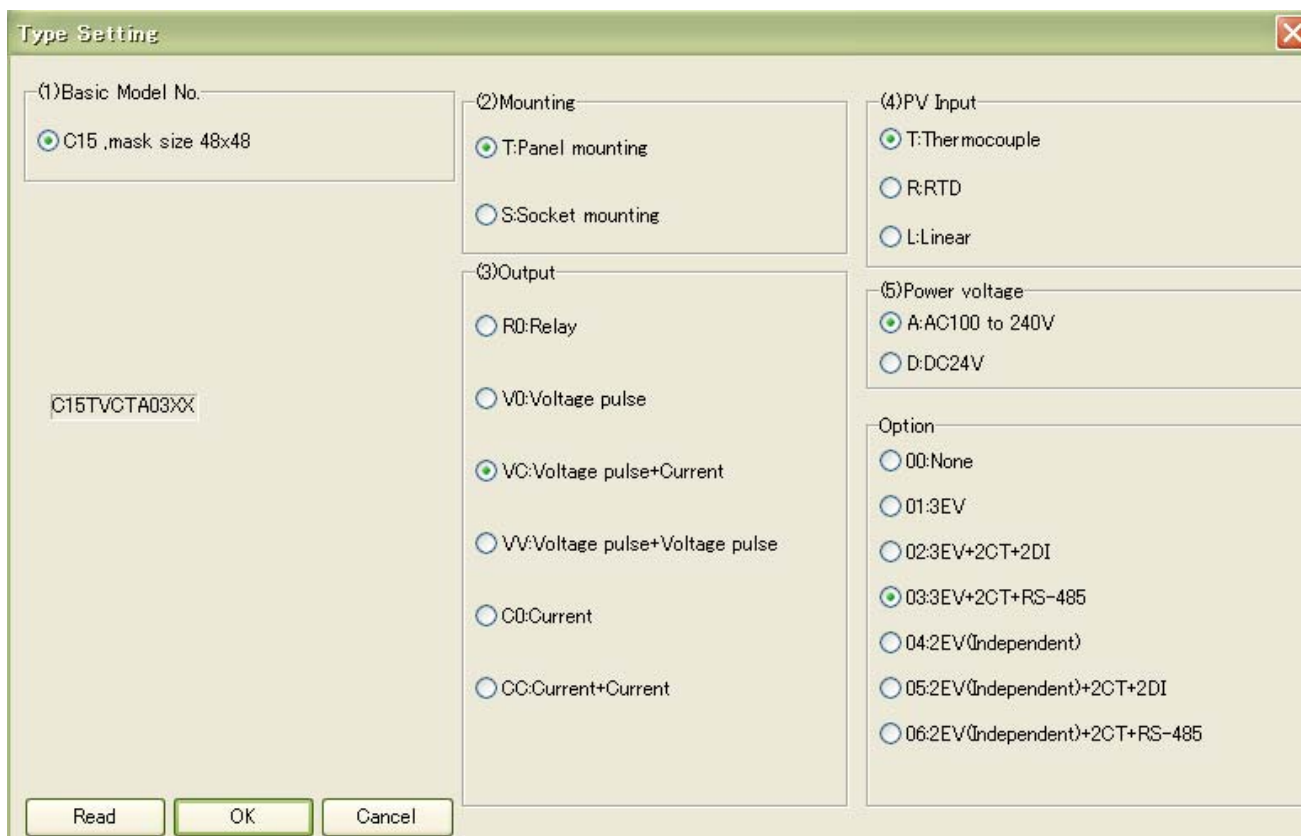


You don't have to set the other parameters unless you use optional communication function of SDC15.

➤ Setting for SDC15

(1) Model number setting

- Select “Type setting” in the Pull down menu “Option”.
- Click the same specifications as the SDC15 you have.



Type Setting

(1)Basic Model No.
 C15 ,mask size 48x48

(2)Mounting
 T:Panel mounting
 S:Socket mounting

(3)Output
 R0:Relay
 V0:Voltage pulse
 VC:Voltage pulse+Current
 VV:Voltage pulse+Voltage pulse
 C0:Current
 CC:Current+Current

(4)PV Input
 T:Thermocouple
 R:RTD
 L:Linear

(5)Power voltage
 A:AC100 to 240V
 D:DC24V

Option
 00:None
 01:3EV
 02:3EV+2CT+2DI
 03:3EV+2CT+RS-485
 04:2EV(Independent)
 05:2EV(Independent)+2CT+2DI
 06:2EV(Independent)+2CT+RS-485

C15TVCTA03XX

Read OK Cancel

Setting for SDC15

(2) Parameters setting

1. Select the parameters group the tree to the right.
2. Set values or change the parameters for your requirements - refer to product manual.

Example) Change the temperature unit from Celsius to Fahrenheit

The screenshot shows the 'Setup(Range)' parameter group selected in the left tree. The main table displays the following parameters:

| Parameter ID | Parameter Name | Code | Value |
|--------------|----------------------------------|------|---------------------------|
| 1 | PV input type | C 01 | 1:K -300 to 2200(F) |
| 2 | Temperature unit | C 02 | 1: Fahrenheit(F) |
| 3 | Cold junction compensation (T/C) | C 03 | 0: Internal cold junction |
| 5 | PV input range low limit | C 05 | -300 |
| 6 | PV input range high limit | C 06 | 2200 |
| 7 | SP low limit | C 07 | -300 |
| 8 | SP high limit | C 08 | 2200 |

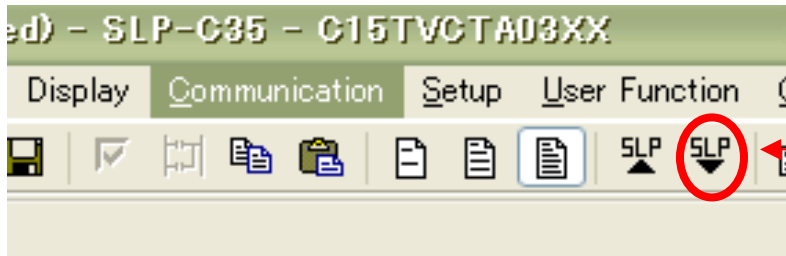
Select the parameter group

Set value or select the parameter

Setting for SDC15

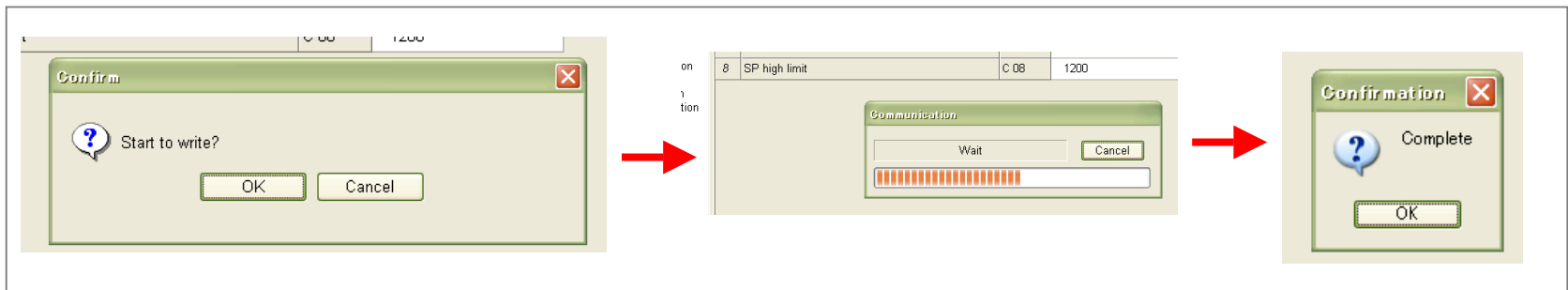
(3) Down load to SDC15

- Select “ Write...” in the Pull down menu “Communication” or the following bu



Button

Procedure



If you cannot communicate correctly, please check the communication port number or confirm if driver's software was installed correctly for USB cable.

- How to start operation using the PC configuration software
 - Start the “Numeric monitor” as follows

| Item | | Numeric Monitor | |
|-------------|-----------------|-----------------------|------|
| RUN | READY | Tag name | ---- |
| AUTO | MANUAL | PV | ---- |
| LOCAL | REMOTE | SP | ---- |
| Auto Tuning | | MV | ---- |
| Self Tuning | | SP Select | ---- |
| ALARM | | Proportional Band(P) | ---- |
| EVENT | ■ ■ ■ | Integral time(I) | ---- |
| OUTPUT | ■ ■ | Derivative time(D) | ---- |
| DI | ■ ■ ■ ■ | Output low limit(OL) | ---- |
| I-EV | ■ ■ ■ ■ ■ ■ ■ ■ | Output high limit(OH) | ---- |
| I-DI | ■ ■ ■ ■ ■ | PID Select | ---- |
| Comm DI | ■ ■ ■ ■ | RUN/READY | ---- |

Explanation

SLP-C35 Monitor Screen [NU] Monitor :OFF

File Numeric Monitor(M) Option(O)

Numeric Monitor

Item

RUN READY

AUTO MANUAL

LOCAL REMOTE

Auto Tuning

Self Tuning

ALARM

EVENT ■ ■ ■

OUTPUT ■ ■

DI ■ ■ ■ ■

I-EV ■ ■ ■ ■ ■ ■ ■ ■

I-DI ■ ■ ■ ■ ■

Comm DI ■ ■ ■ ■

Numeric Mo

| Tag name | |
|-----------------------|-----------|
| PV | 30 |
| SP | 0 |
| MV | 0.0 |
| SP Select | 1 |
| Proportional Band(P) | 5.0 |
| Integral time(I) | 120 |
| Derivative time(D) | 30 |
| Output low limit(OL) | 0.0 |
| Output high limit(OH) | 100.0 |
| PID Select | 1 |
| RUN/READY | 0:RUN |
| AUTO/MANUAL | 0:AUTO |
| Auto Tuning | 0:AT Stop |
| LOCAL/REMOTE | 0:LOCAL |
| Heater current(CT1) | 0.0 |
| Heater current(CT2) | 0.0 |

Operation area

For setting values of parameters or starting or canceling Auto-tuning, switch, switching mode, like RUN/READY or AUTO/MANUAL.

Status monitoring area

You can check the current status of the controller

How to operate

Change value

1. Double click here

| | |
|-----------------------|-----|
| Tag name | |
| PV | 30 |
| SP | 0 |
| MV | 0.0 |
| SP Select | 1 |
| Proportional Band(P) | 5.0 |
| Integral time(I) | 120 |
| Derivative time(D) | |
| Output low limit(OL) | |
| Output high limit(OH) | |
| PID Select | |
| RUN/READY | |
| AUTO/MANUAL | |

SPchange

250

Addr:25486

OK

Cancel

2. Set value

Start Auto-tuning

2. Select AT start

Auto Tuningchange

0:AT Stop

1:AT Start

OK

Cancel

Addr:9004

| | |
|--------|-----------|
| READY | 0:RUN |
| MANUAL | 0:AUTO |
| Tuning | 0:AT Stop |

1. Double click here

How to operate – others

- You can confirm the alarm status.
 - Select “Alarm” in the pull down menu” Option”.

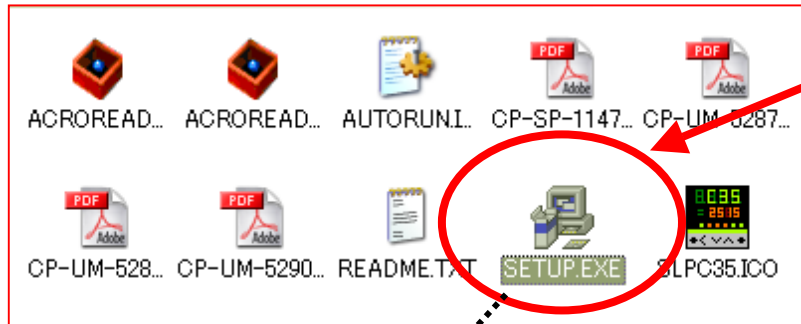
Example) Temperature sensor breakage

The screenshot shows the 'Alarm' window from the 'Numeric Monitor' application. The window title is 'Alarm' and it has a 'Close' button. The main area contains a table with the following data:

| Alarm | Status |
|---|--------|
| AL01:PV High limit Alarm | ON |
| AL02:PV Low limit Alarm | OFF |
| AL03:CJ Alarm | OFF |
| AL04:undefined | OFF |
| AL05:RSP High limit Alarm | OFF |
| AL06:RSP Low limit Alarm | OFF |
| AL07:T Alarm | OFF |
| AL08:Y Alarm | OFF |
| AL09:G Alarm | OFF |
| AL10:Motor Alarm | OFF |
| AL70:PV A/D Alarm | OFF |
| AL95:EEPROM Parameter Check-sum error | OFF |
| AL96:EEPROM Calibration Check-sum error | OFF |
| AL97:RAM Check-sum error | OFF |
| AL98:RAM Calibration Check-sum error | OFF |
| AL99:ROM Check-sum error | OFF |

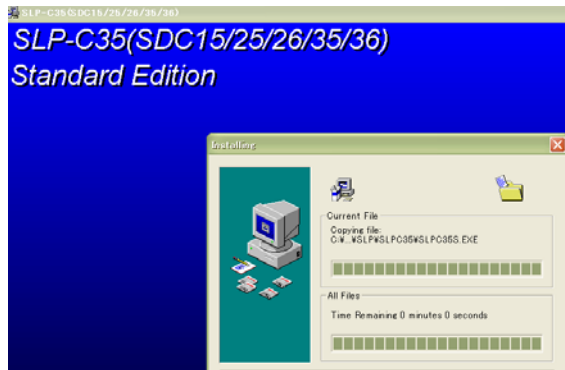
In the left sidebar, the 'ALARM' option is circled in red. A yellow callout box with the text 'Blinking!' points to this option.

How to install the PC configuration software



Select and double click this

Installing



Menu screen

