

TLC880 PARAMETER SETTING PROGRAM (Version 2.0b) MANUAL



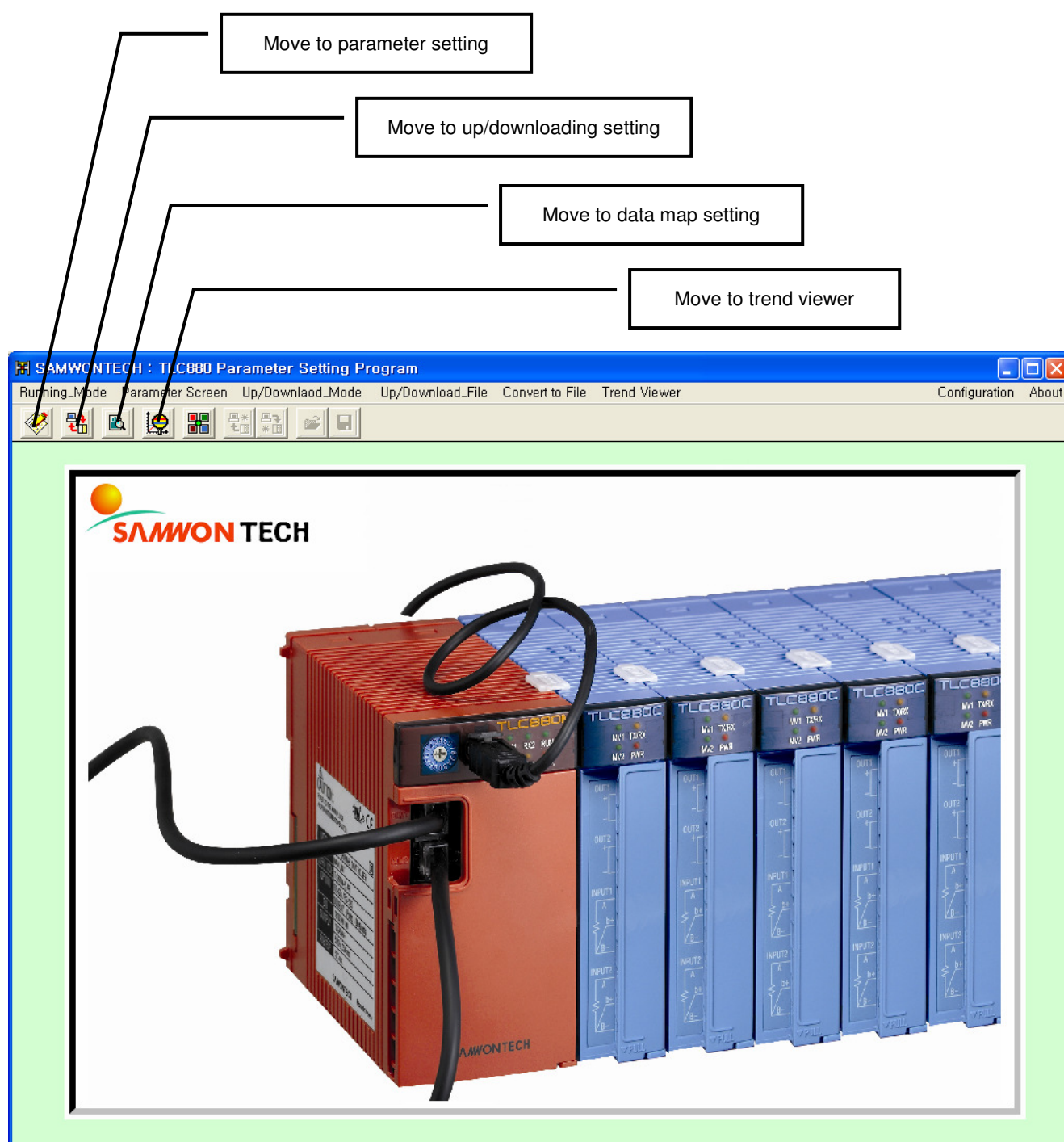
SAMWONTECH CO LTD.

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1. FIRST SCREEN

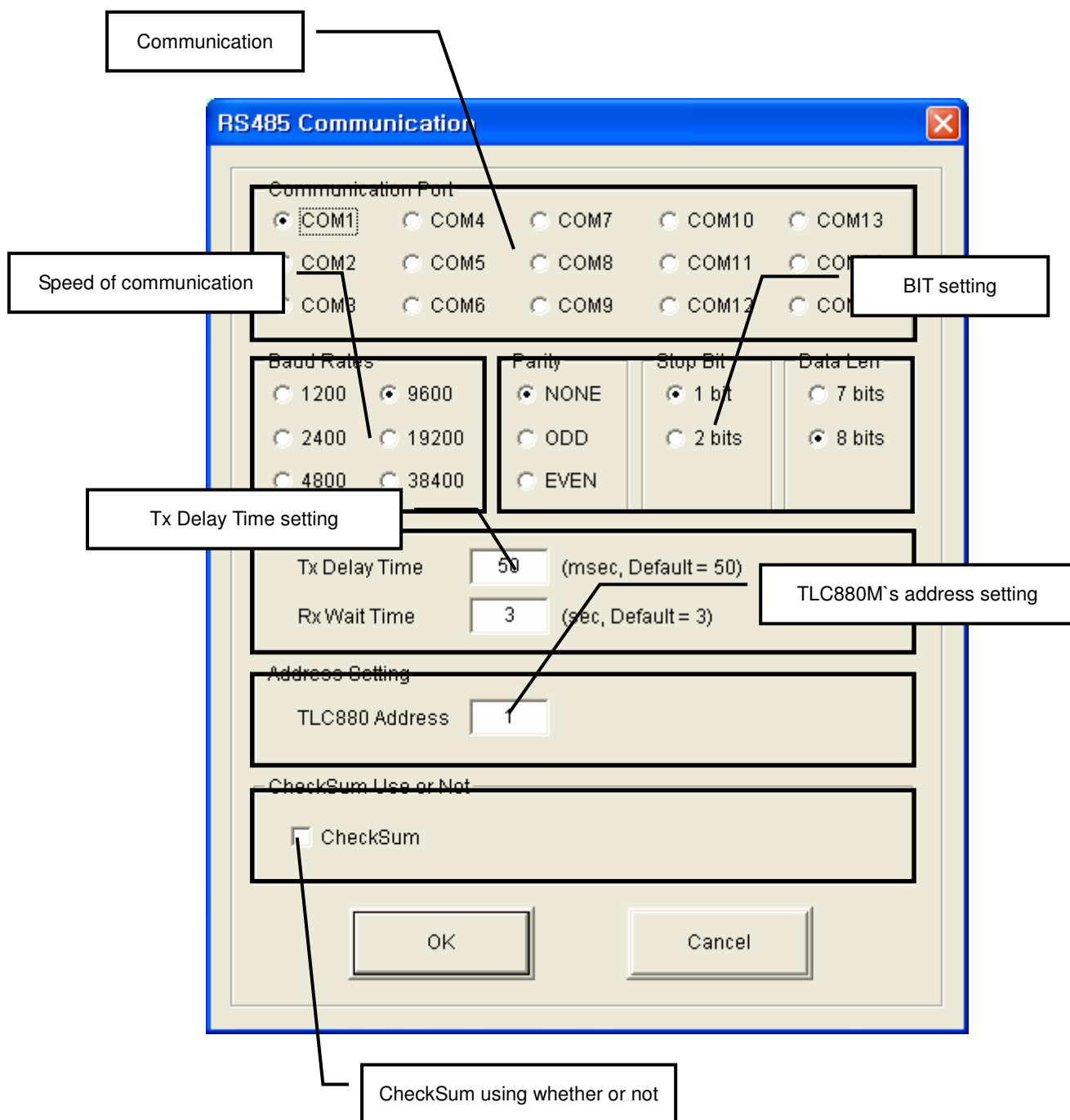
This is first screen when you run TLC880 parameter setting program. You can do TLC880's parameter setting, file's up/downloading, data map setting, trend viewer etc. for using this program.



(PIC 1) FIRST SCREEN

1.1. COMMUNICATION SET-UP [CONFIGURATION → COMMUNICATION]

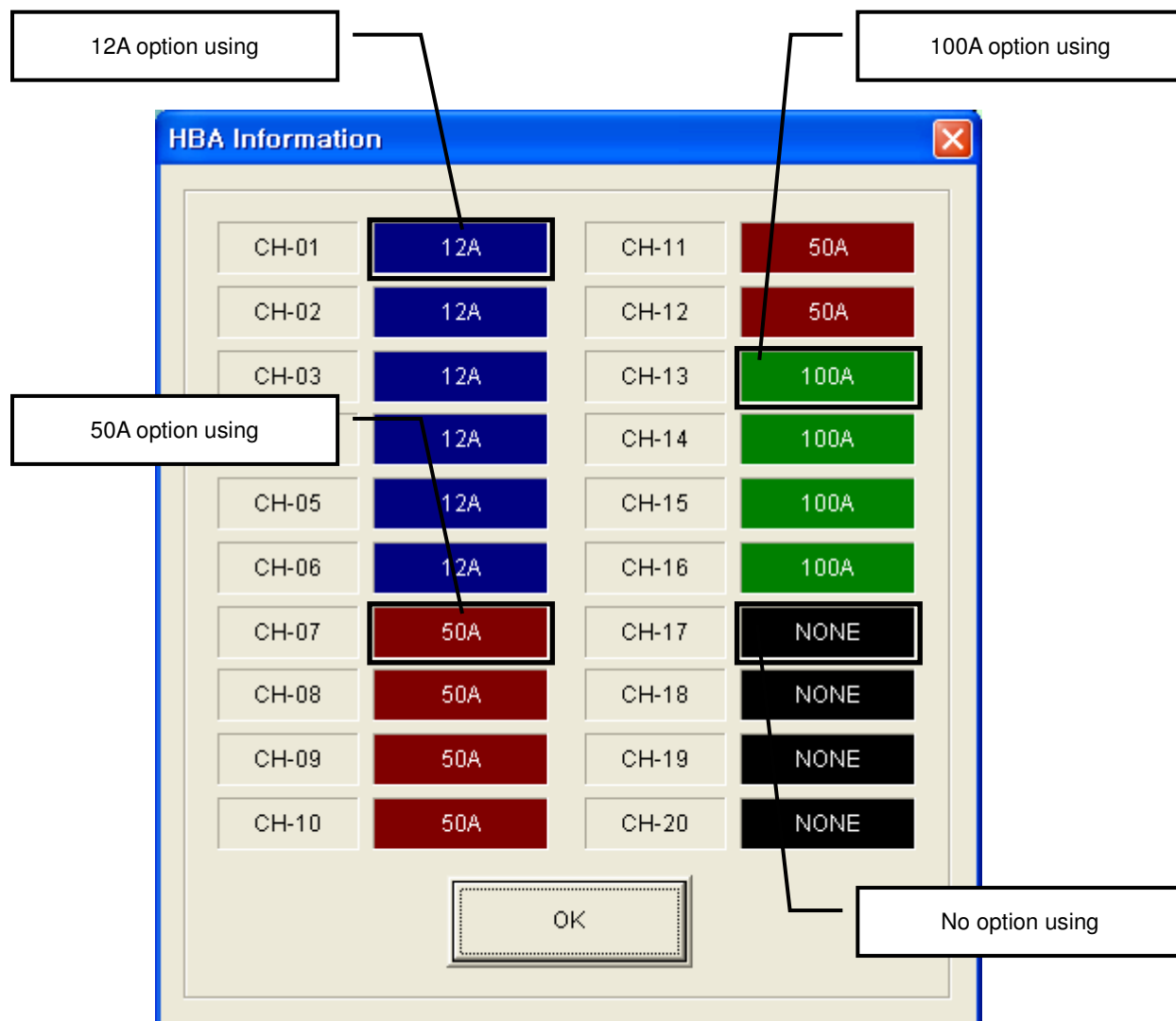
You need to set-up same as TLC880 with communication setting. If you use TLC880M's COM3 port, TLC880M's address would be fixed address 1.



(PIC 2) COMMUNICATION SETTING SCREEN

1.2. HBA OPTION INFORMATION [CONFIGURATION → HBA INFORMATION]

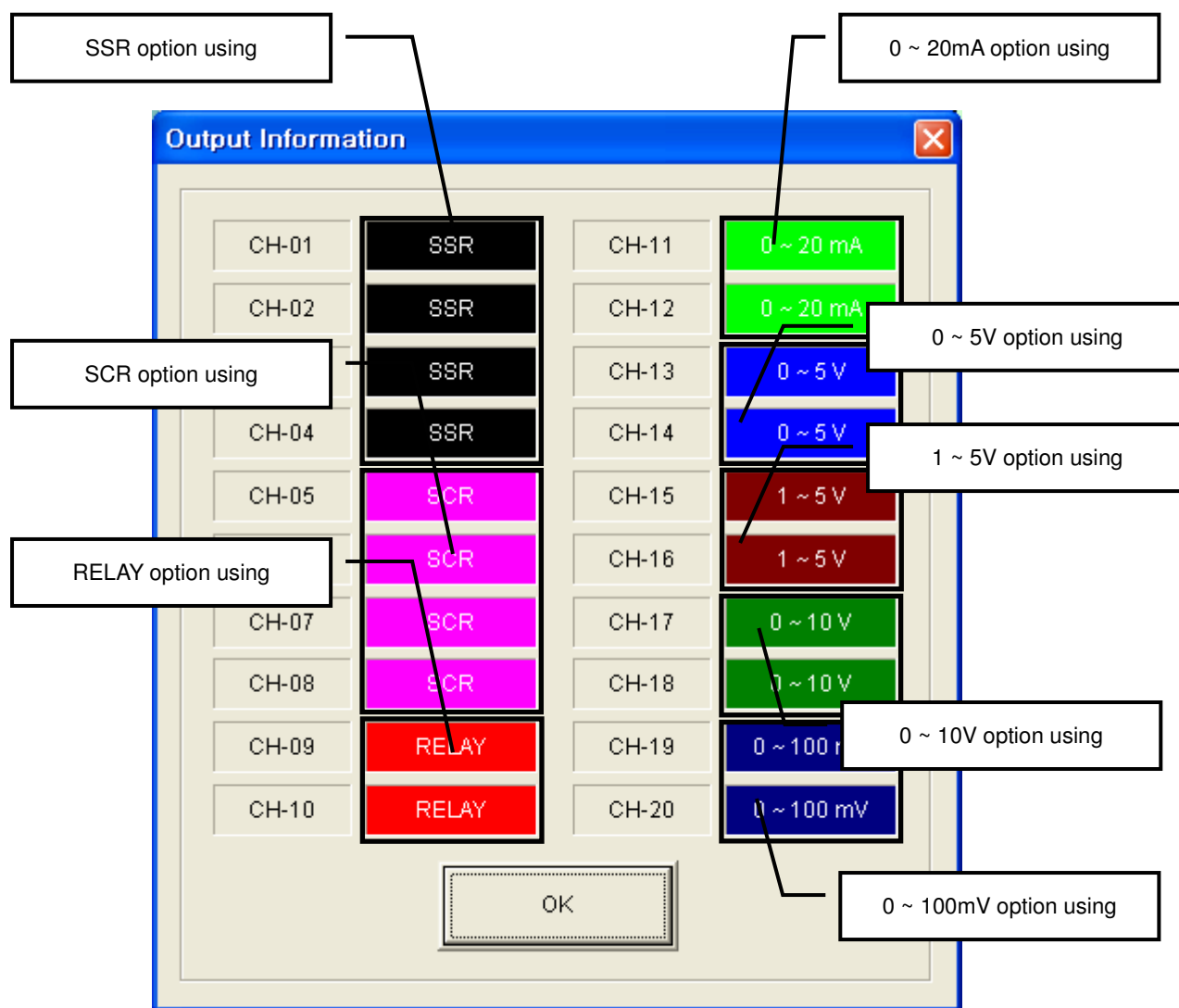
You can see HBA option information which is used individually.



(PIC 3) HBA INFORMATION SCREEN

1.3. OUTPUT OPTION INFORMATION [CONFIGURATION → OUTPUT INFORMATION]

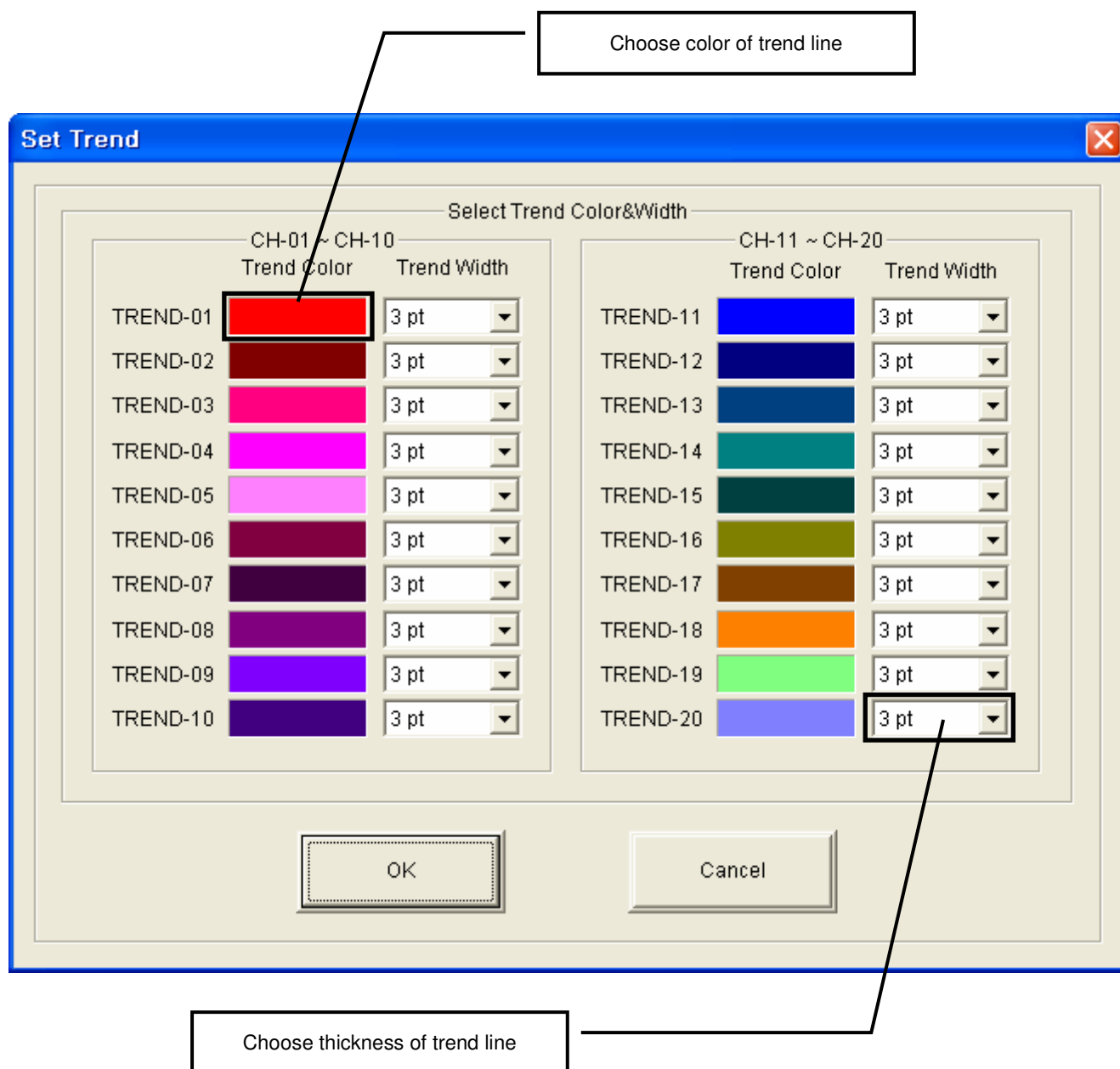
You can see OUTPUT option information which is used individually.



(PIC 4)OPTPUT INFORMATION SCREEN

1.4. TREND SETTING [CONFIGURATION → TREND SETTING]

You can choose individual color and thickness of trend line.

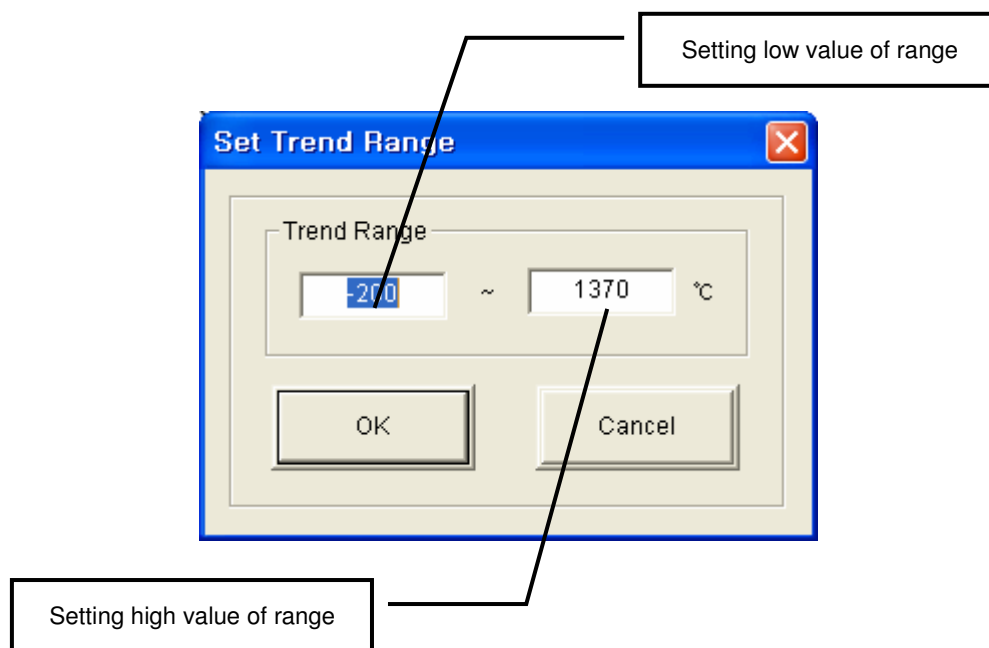


(PIC 5) TREND SETTING SCREEN

1.5. TREND RANGE SETTING [CONFIGURATION → TREND RANGE SETTING]

You can set trend range.

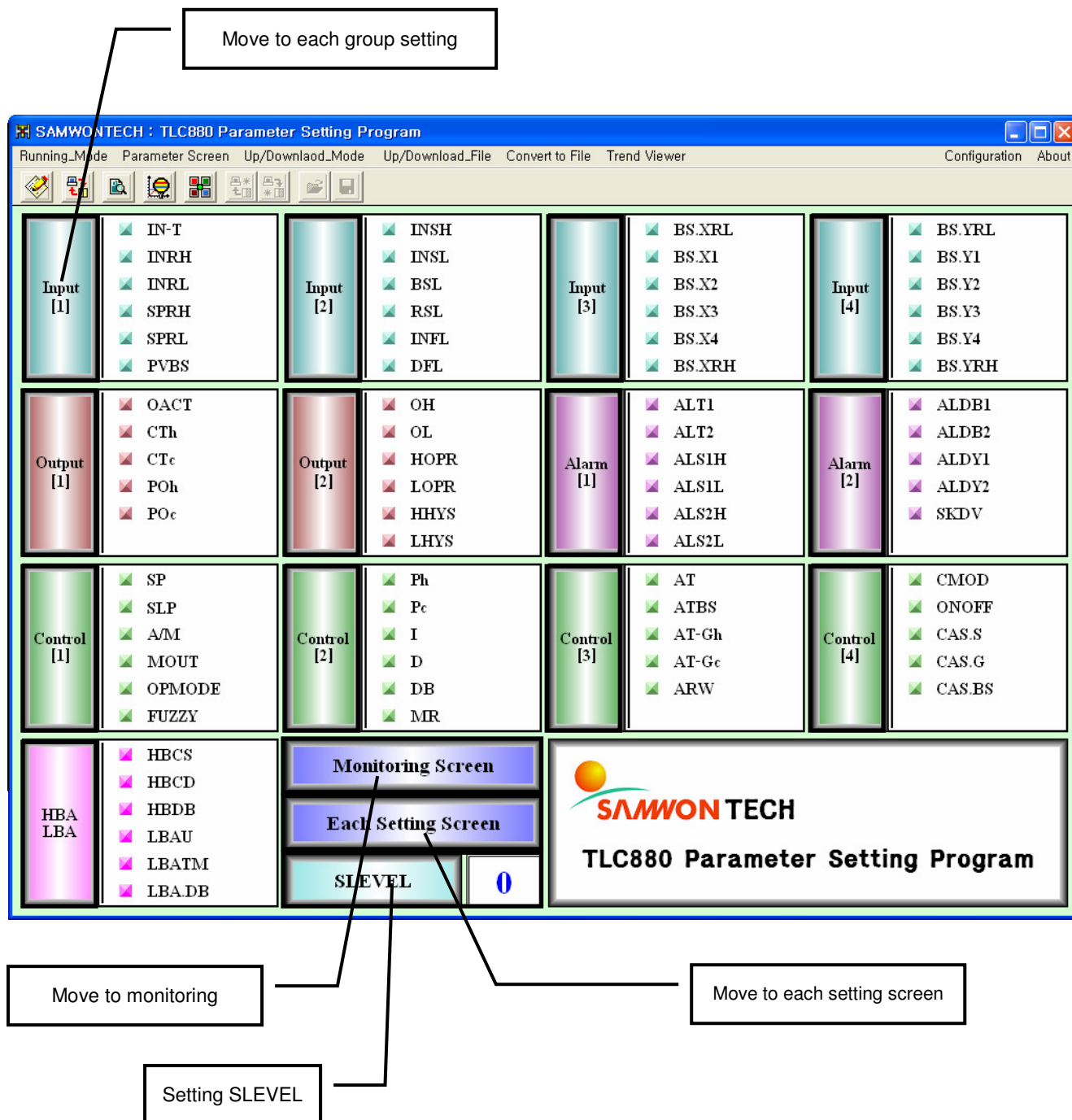
When you press a left button of mouse at the range of [2.1 TREND DISPLAY], you can see dialog box as below.



(PIC 6) SET TREND RANGE SCREEN

2. PARAMETER SETTING COMPOSITION

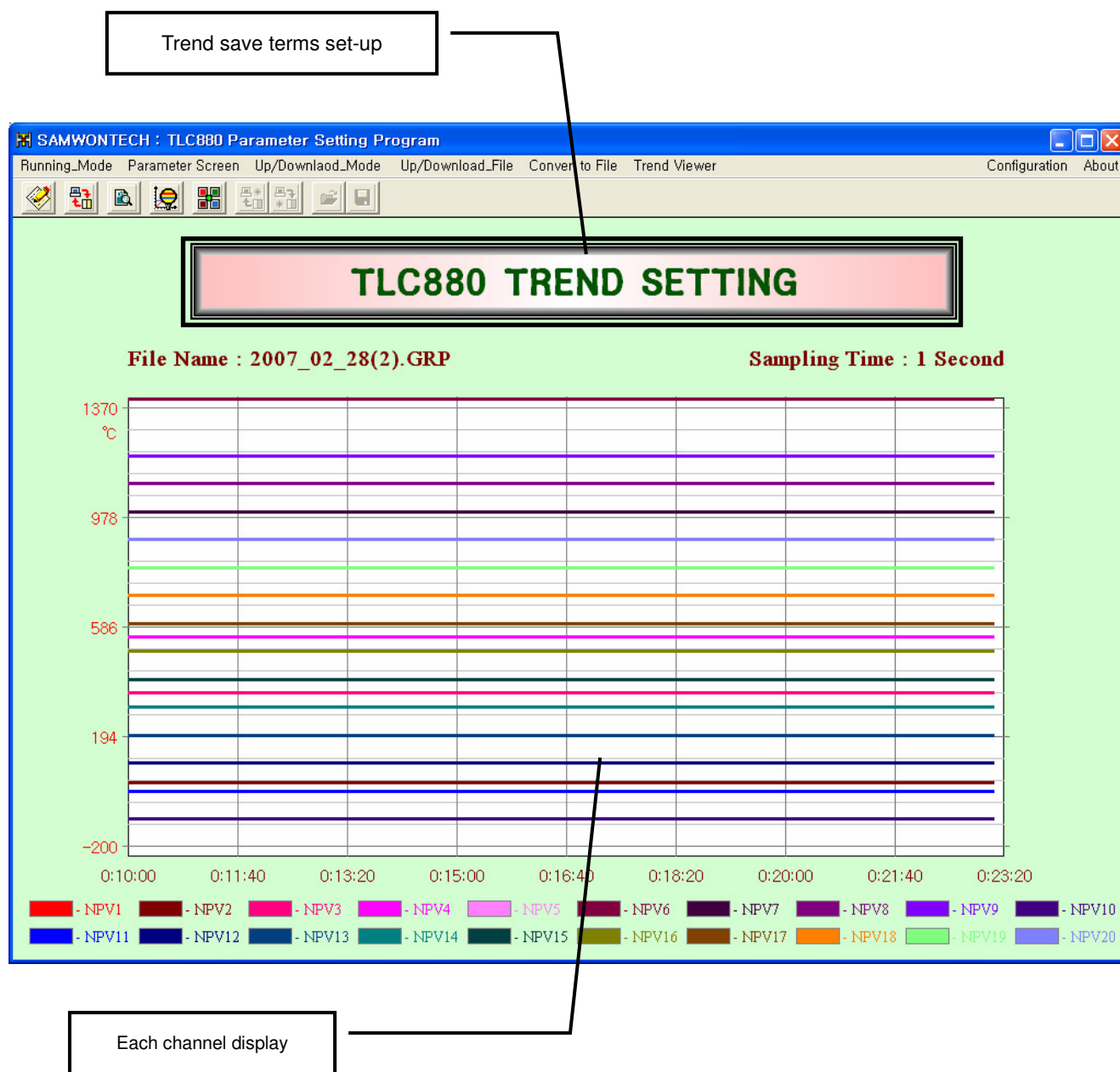
You can move to group setting, monitoring, each setting screen, also you can change level. You can move to other screen if you click left mouse



(PIC 7) PARAMETER SETTING SCREEN

2.1. TREND SCREEN [PARAMETER SCREEN → TREND SCREEN]

You can find out trend information of each channel



(PIC 8) TREND SCREEN

◆ TREND SAVE TERMS SETTING

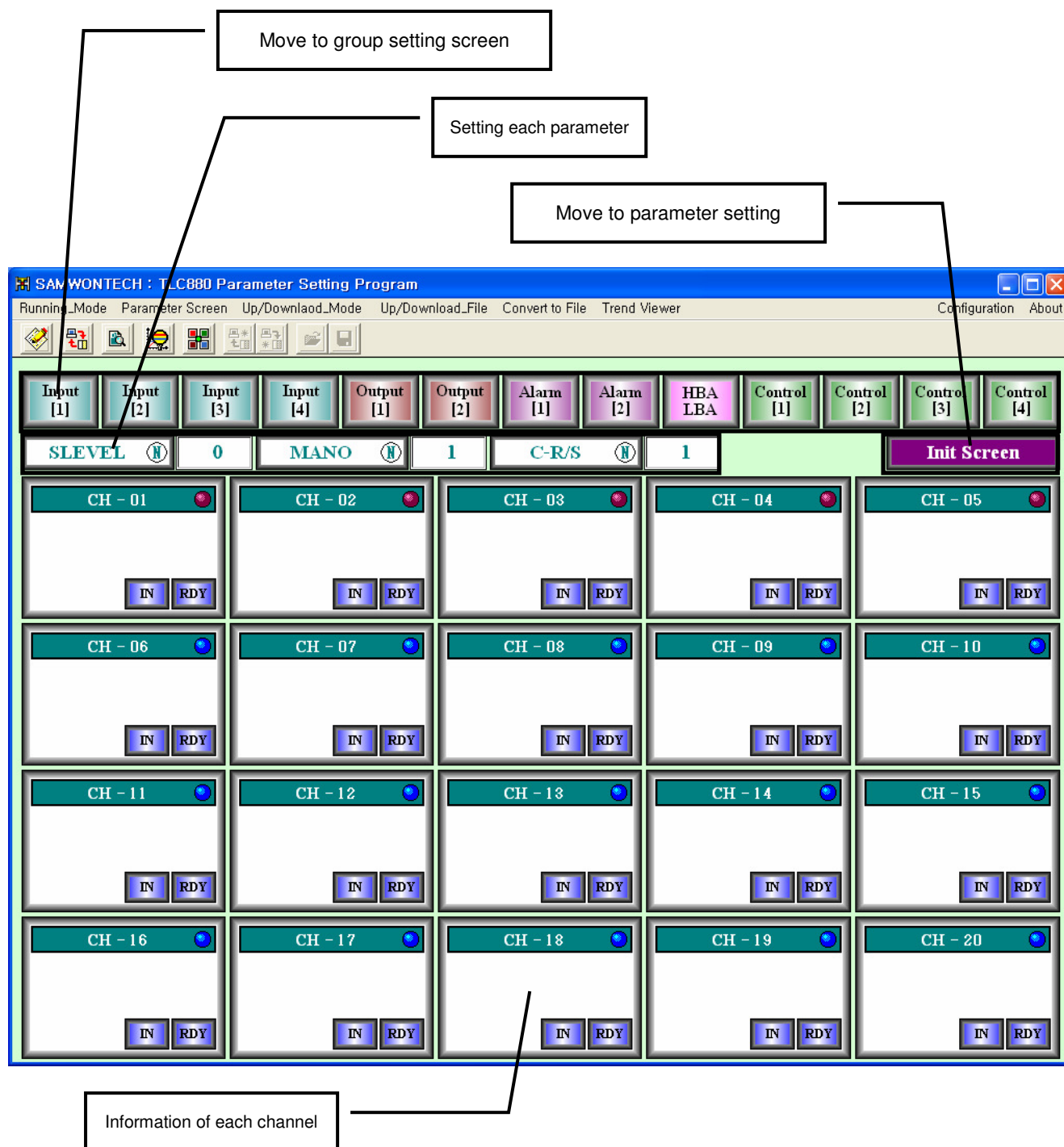
You can set how you save trend.



(PIC 9) TREND SAVE TERMS SETTING SCREEN

2.2. STATUS SCREEN [PARAMETER SCREEN → STATUS SCREEN]

It displays Control Unit (TLC880C)'s status. You can move to group setting screen, parameter setting screen, you can change SLEVEL, Memory area number, Run/Stop of whole channel.




(PIC 10) STATUS SCREEN


◆ RUN STATUS INFORMATION


 [RED]: It shows Manual Run Status.


 [BLUE]: It shows Automatic Run Status.


◆ STATUS INFORMATION


 : It shows output(MV) \geq 0.1% state


 : It shows alarm 1 occurrence state.


 : It shows alarm 2 occurrence state.

 : It shows sensor break state.

 : It shows heater break state.


 : It shows loop break alarm state.


 : It shows that sensor is in -Over area state.

 : It shows that sensor is in +Over area state.

 : It shows Auto-Tuning(AT) state.

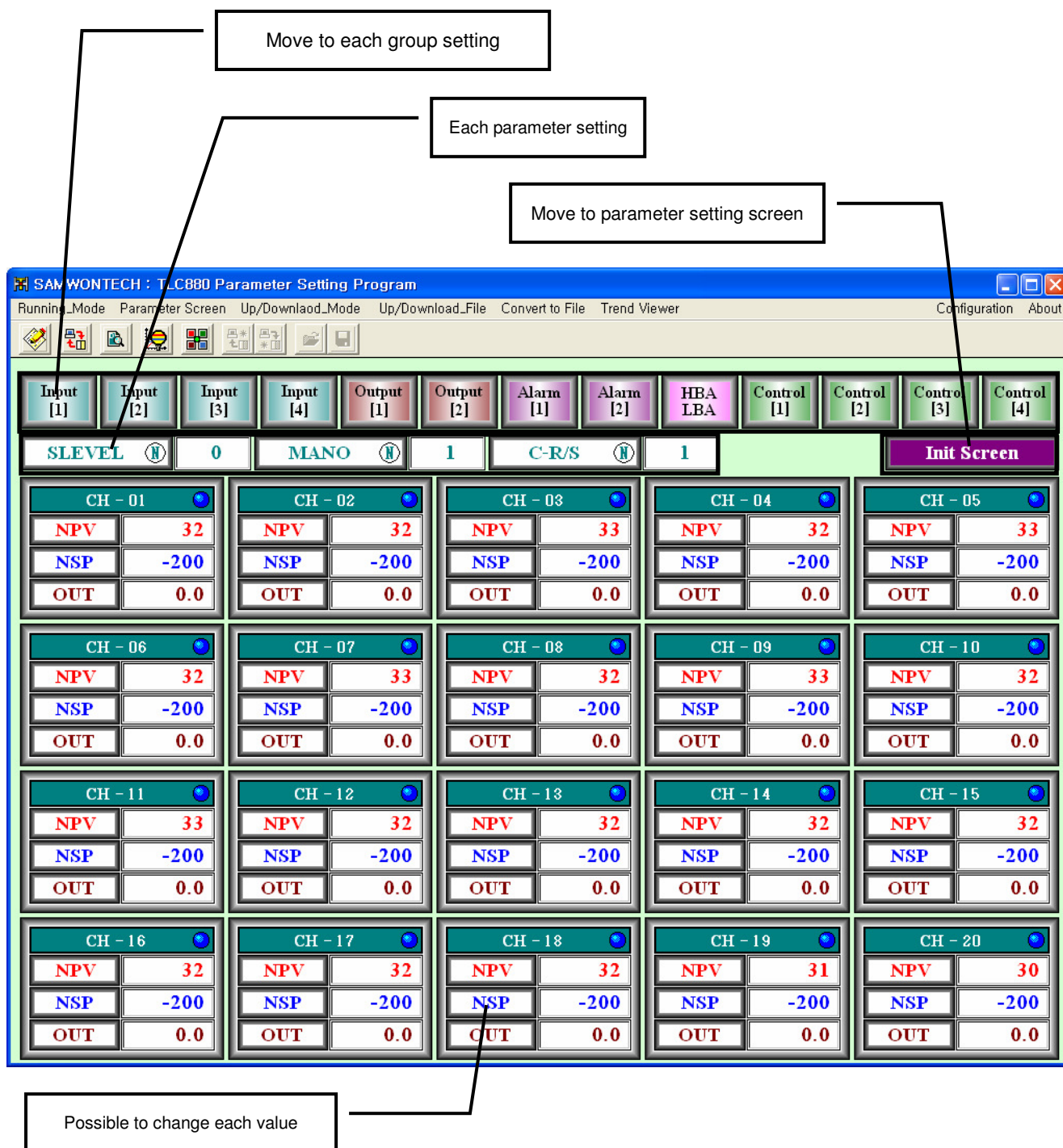
 : It shows communication error between Main Unit (TLC880M) and Control Unit (TLC880C).

 : It shows installation state of Control Unit (TLC880C).

 : It shows Control Ready State of Control Unit (TLC880C).

2.3. MONITORING SCREEN [PARAMETER SCREEN → MONITORING SCREEN]

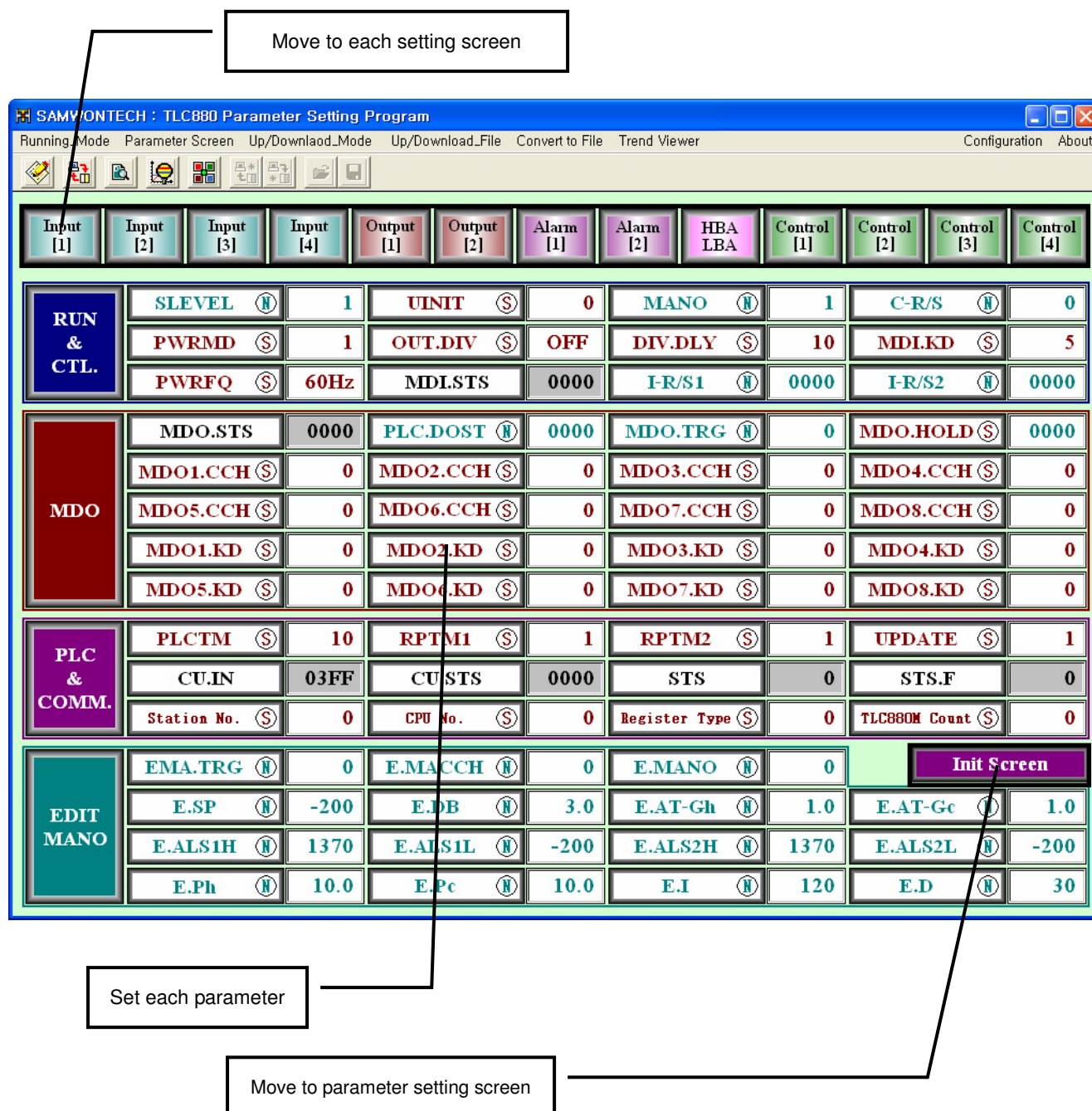
It shows TLC880's operating information. You can move group setting screen, parameter setting screen, and you can change SLEVEL, Memory area number, Run/Stop of whole channel.



(PIC 11) MONITORING SCREEN COMPOSITION

2.4. EACH SETTING SCREEN [PARAMETER SCREEN → EACH SETTING SCREEN]

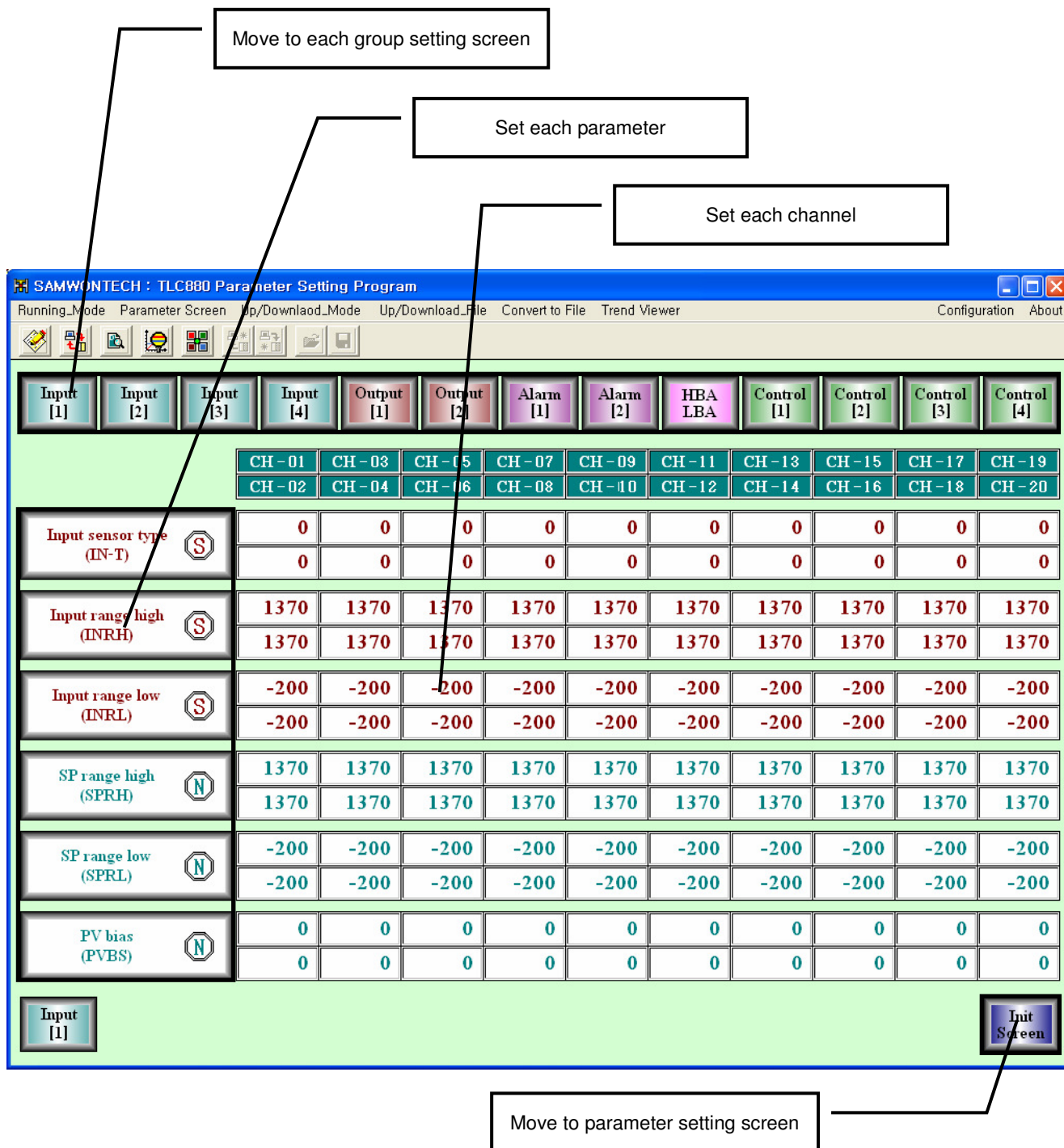
It shows TLC880's each parameter setting screen. You can move to group setting screen, parameter setting screen, and you can set each parameter.



(PIC 12) EACH SETTING SCREEN

2.5. INPUT-1 SETTING SCREEN [PARAMETER SCREEN → INPUT-1 SETTING SCREEN]

You can set parameter of input-1 group (IN-T, INRH, INRL, SPRH, SPRL, PVBS). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Input sensor type (IN-T)	0	0	0	0	0	0	0	0	0	0
Input range high (INRH)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Input range low (INRL)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
SP range high (SPRH)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
SP range low (SPRL)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
PV bias (PVBS)	0	0	0	0	0	0	0	0	0	0

(PIC 13) INPUT-1 SETTING SCREEN

◆ LEVEL OF EACH PARAMETER



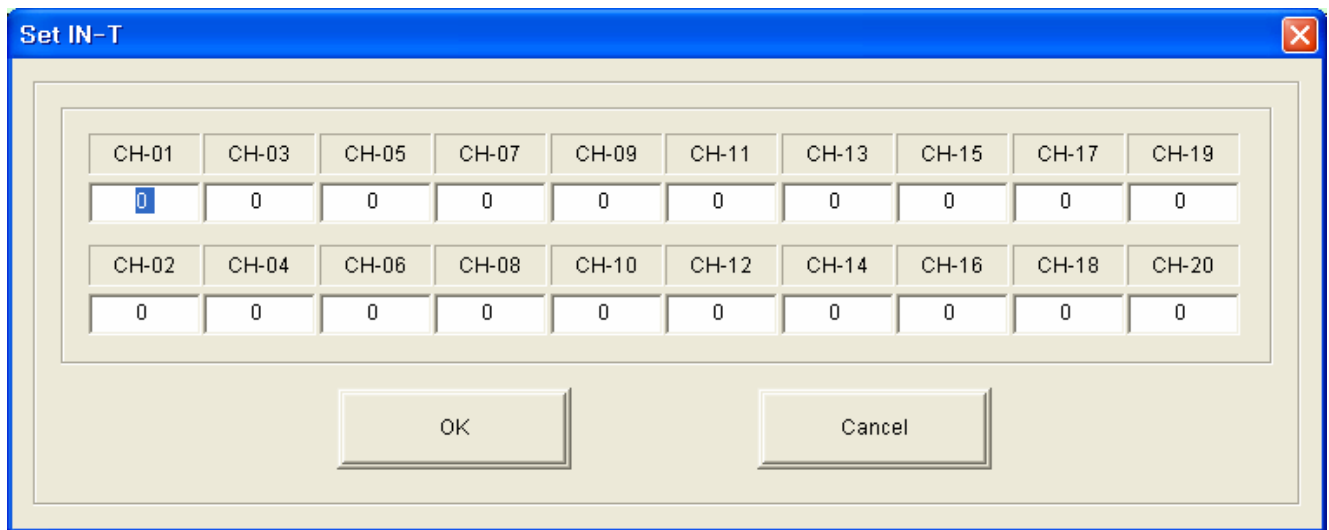
: It shows S-Level, it is possible to change if SLEVEL is 1 or 2.



: It shows N-Level, it is possible to change if SLEVEL is 0 or 1.

◆ EACH PARAMETER SETTING

When you set parameter, you can set whole channel which is connected with TLC880.

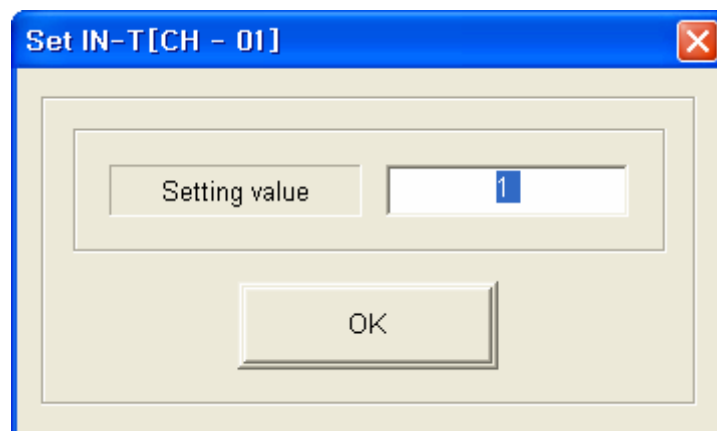


CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
0	0	0	0	0	0	0	0	0	0
CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
0	0	0	0	0	0	0	0	0	0

(PIC 14) EACH PARAMETER SETTING SCREEN

◆ EACH CHANNEL SETTING

When you set parameter, you can set each channel which is connected with TLC880.



Setting value: 1

(PIC 15) EACH CHANNEL SETTING SCREEN

2.6. INPUT-2 SETTING SCREEN [PARAMETER SCREEN → INPUT-2 SETTING SCREEN]

You can set parameter of input-2 group (INSH, INSL, BSL, RSL, INFL, DFL). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.

Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Input scale high (INSH)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Input scale low (INSL)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
Burnout select (BSL)	1	1	1	1	1	1	1	1	1	1
RJC select (RSL)	1	1	1	1	1	1	1	1	1	1
Input filter (INFL)	0	0	0	0	0	0	0	0	0	0
Display filter (DFL)	0	0	0	0	0	0	0	0	0	0

(PIC 16) INPUT-2 SETTING SCREEN

2.7. INPUT-3 SETTING SCREEN [PARAMETER SCREEN → INPUT-3 SETTING SCREEN]

You can set parameter of input-3 group (BS.XRL, BS.X1, BS.X2, BS.X3, BS.X4, BS.XRH). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.

Move to each group setting screen

Set each parameter

Set each channel

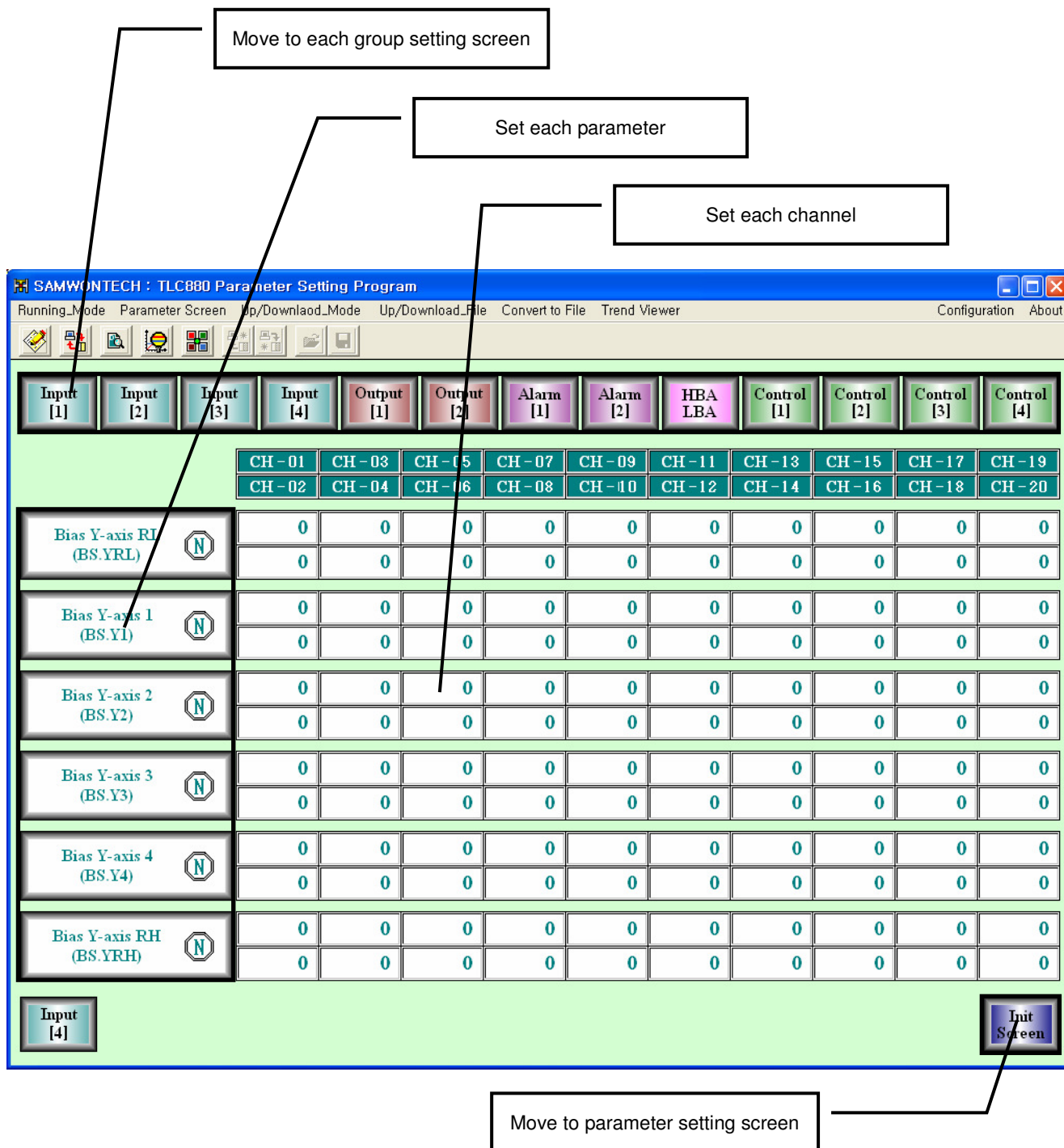
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Bias X-axis RL (BS.XRL)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
Bias X-axis 1 (BS.X1)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Bias X-axis 2 (BS.X2)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Bias X-axis 3 (BS.X3)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Bias X-axis 4 (BS.X4)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
Bias X-axis RH (BS.XRH)	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370

(PIC 17) INPUT-3 SETTING SCREEN

2.8. INPUT-4 SETTING SCREEN [PARAMETER SCREEN → INPUT-4 SETTING SCREEN]

You can set parameter of input-4 group (BS.YRL, BS.Y1, BS.Y2, BS.Y3, BS.Y4, BS.YRH). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

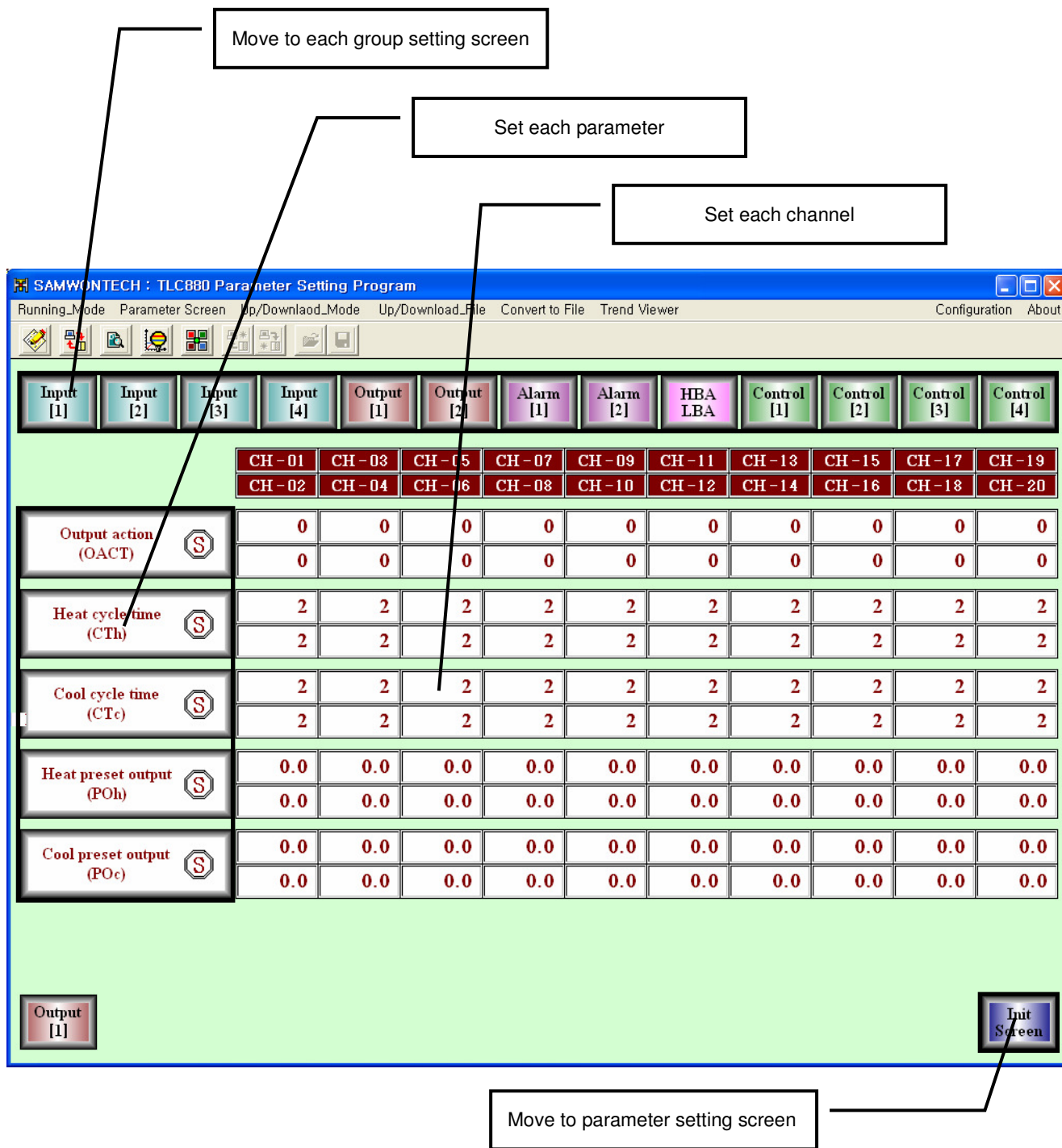
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Bias Y-axis RL (BS.YRL)	0	0	0	0	0	0	0	0	0	0
Bias Y-axis 1 (BS.Y1)	0	0	0	0	0	0	0	0	0	0
Bias Y-axis 2 (BS.Y2)	0	0	0	0	0	0	0	0	0	0
Bias Y-axis 3 (BS.Y3)	0	0	0	0	0	0	0	0	0	0
Bias Y-axis 4 (BS.Y4)	0	0	0	0	0	0	0	0	0	0
Bias Y-axis RH (BS.YRH)	0	0	0	0	0	0	0	0	0	0

(PIC 18) INPUT-4 SETTING SCREEN

2.9. OUTPUT-1 SETTING SCREEN [PARAMETER SCREEN → OUTPUT-1 SETTING SCREEN]

You can set parameter of output-1 group (OACT, CTh, CTc, POH, POc). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

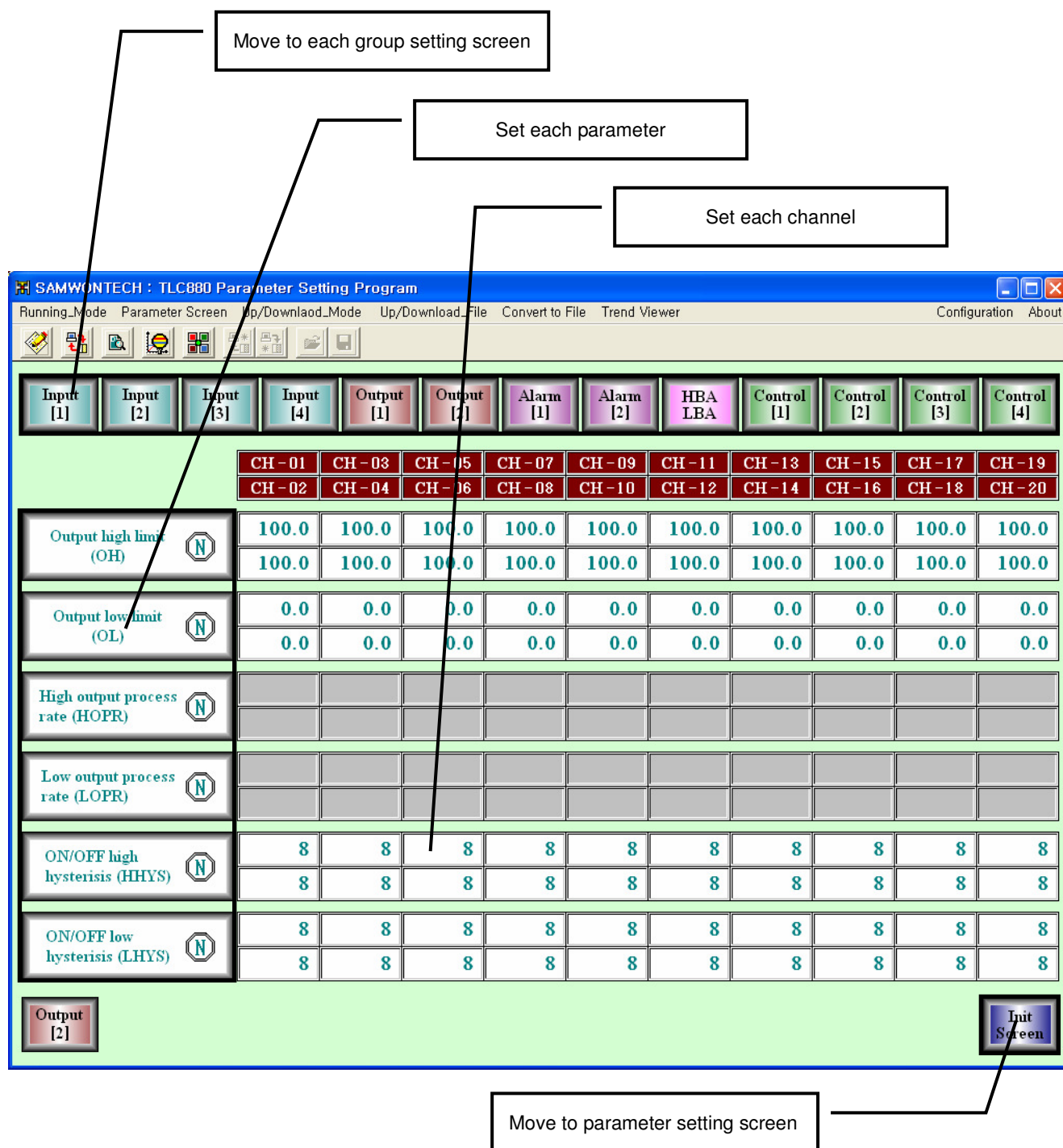
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Output action (OACT)	0	0	0	0	0	0	0	0	0	0
Heat cycle time (CTh)	2	2	2	2	2	2	2	2	2	2
Cool cycle time (CTc)	2	2	2	2	2	2	2	2	2	2
Heat preset output (POH)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cool preset output (POc)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(PIC 19) OUTPUT-1 SETTING SCREEN

2.10. OUTPUT-2 SETTING SCREEN [PARAMETER SCREEN → OUTPUT-2 SETTING SCREEN]

You can set parameter of output-2 group (OH, OL, HHYS, LHYS). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Output high limit (OH)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Output low limit (OL)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
High output process rate (HOPR)										
Low output process rate (LOPR)										
ON/OFF high hysteresis (HHYS)	8	8	8	8	8	8	8	8	8	8
ON/OFF low hysteresis (LHYS)	8	8	8	8	8	8	8	8	8	8

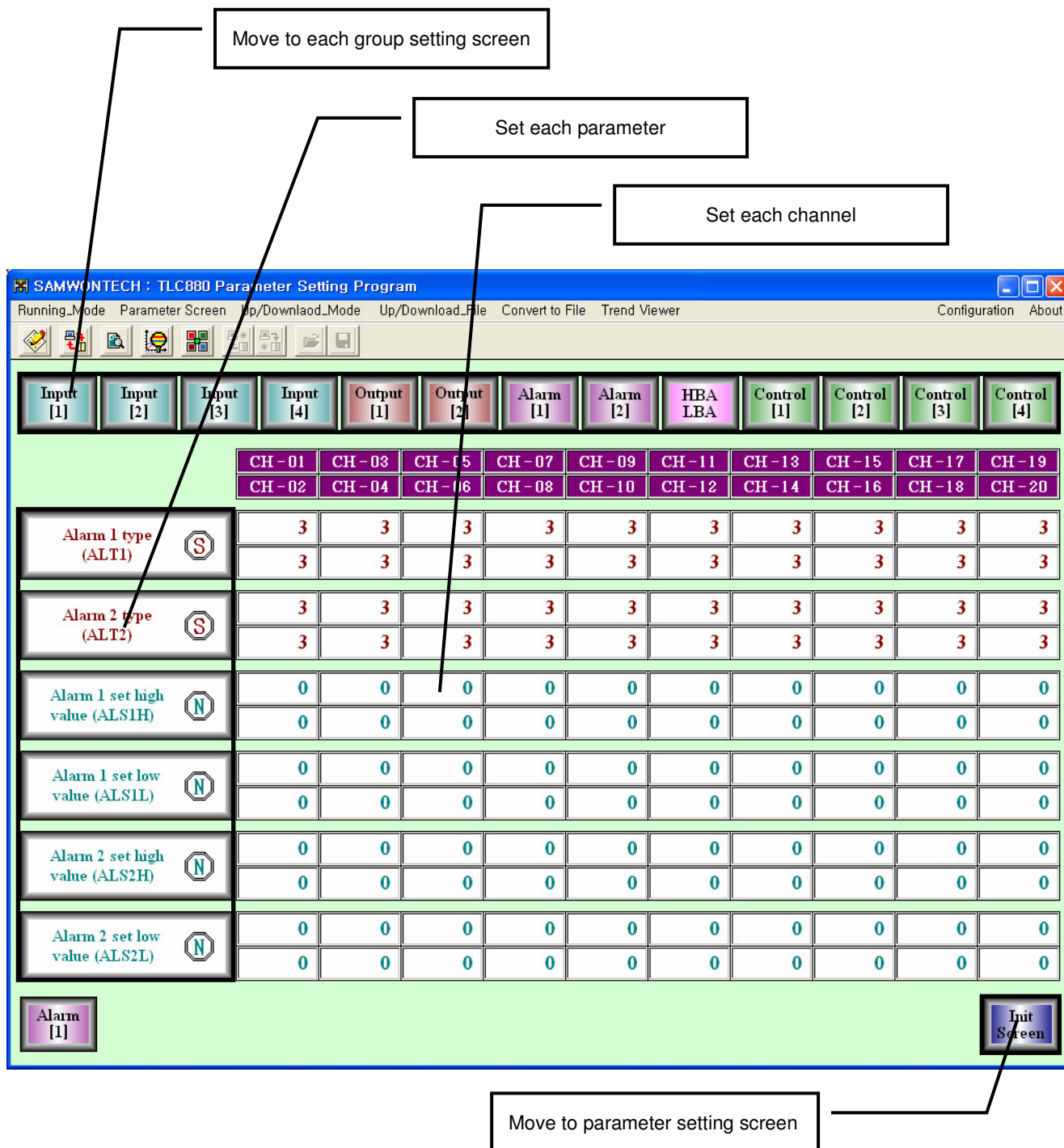
Output [2]

Init Screen

(PIC 20) OUTPUT-2 SETTING SCREEN

2.11. ALARM-1 SETTING SCREEN [PARAMETER SCREEN → ALARM-1 SETTING SCREEN]

You can set parameter of alarm-1 group (ALT1, ALT2, ALS1H, ALS1L, ALS2H, ALS2L). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

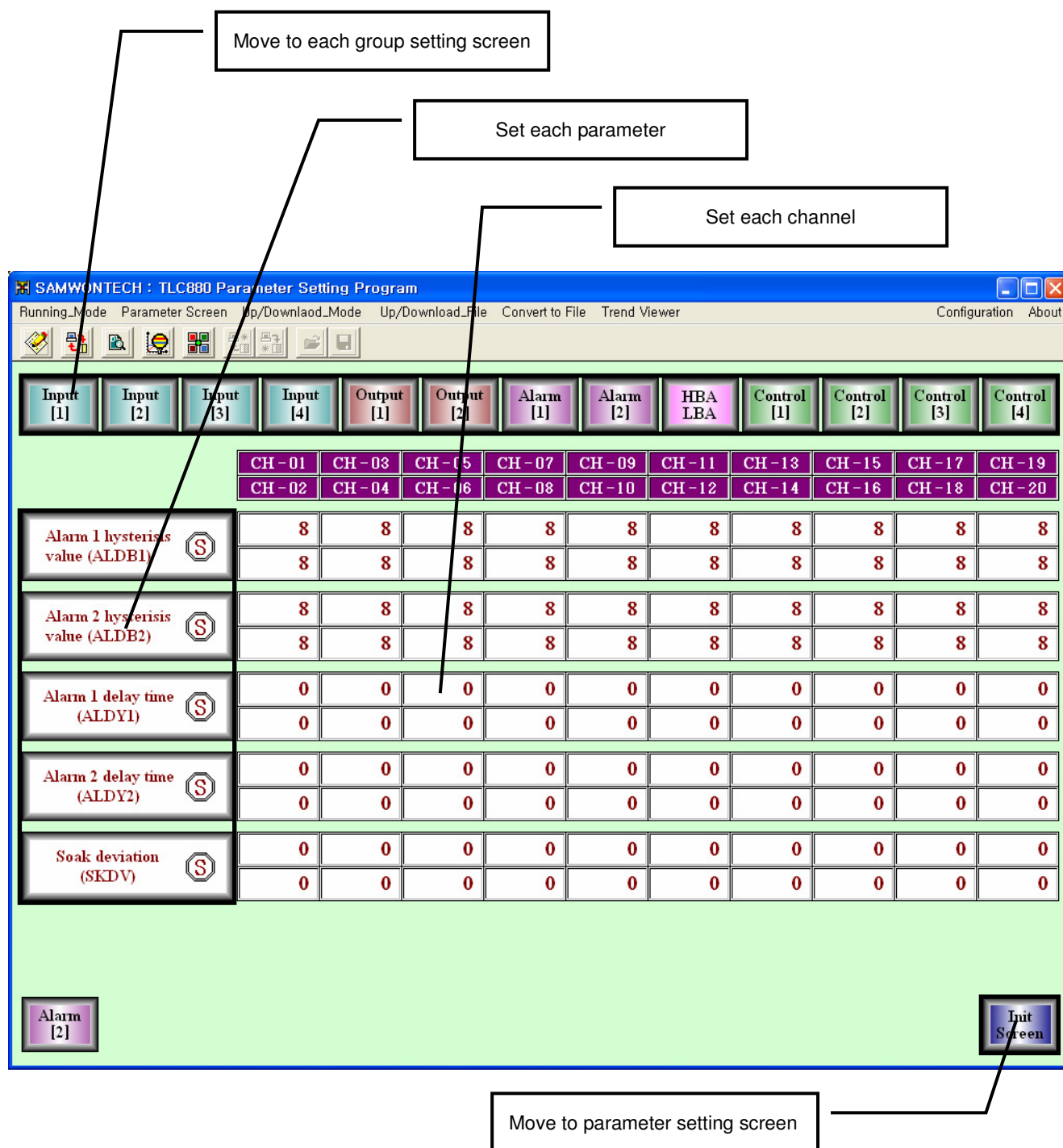
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
Alarm 1 type (ALT1)	3	3	3	3	3	3	3	3	3	3
Alarm 2 type (ALT2)	3	3	3	3	3	3	3	3	3	3
Alarm 1 set high value (ALS1H)	0	0	0	0	0	0	0	0	0	0
Alarm 1 set low value (ALS1L)	0	0	0	0	0	0	0	0	0	0
Alarm 2 set high value (ALS2H)	0	0	0	0	0	0	0	0	0	0
Alarm 2 set low value (ALS2L)	0	0	0	0	0	0	0	0	0	0

(PIC 21) ALARM-1 SETTING SCREEN

2.12. ALARM-2 SETTING SCREEN [PARAMETER SCREEN → ALARM-2 SETTING SCREEN]

You can set parameter of alarm-2 group (OH, OL, HHYS, LHYS). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

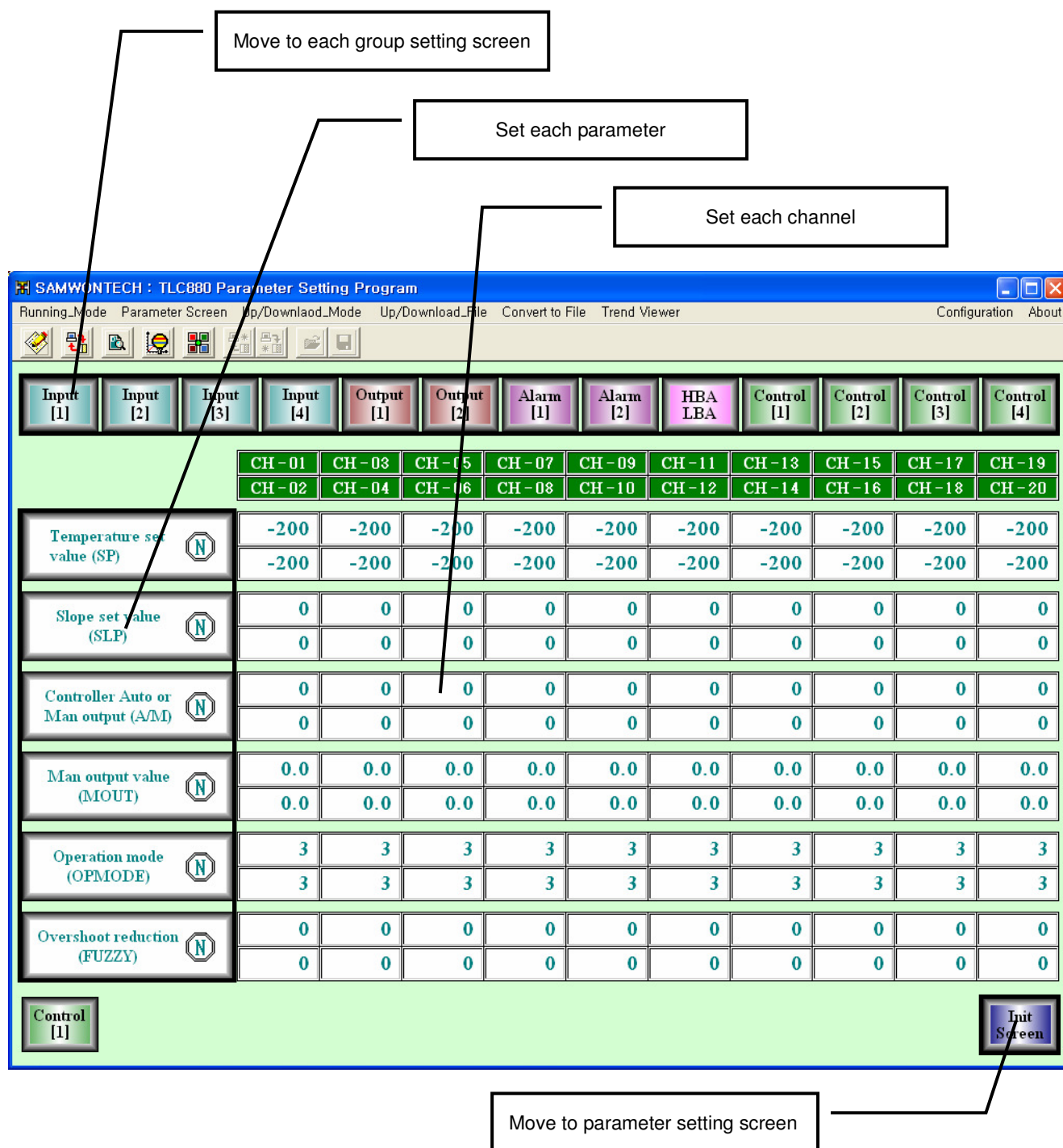
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
Alarm 1 hysteresis value (ALDB1)	8	8	8	8	8	8	8	8	8	8
Alarm 2 hysteresis value (ALDB2)	8	8	8	8	8	8	8	8	8	8
Alarm 1 delay time (ALDY1)	0	0	0	0	0	0	0	0	0	0
Alarm 2 delay time (ALDY2)	0	0	0	0	0	0	0	0	0	0
Soak deviation (SKDV)	0	0	0	0	0	0	0	0	0	0

(PIC 22) ALARM-2 SETTING SCREEN

2.13. CONTROL-1 SETTING SCREEN [PARAMETER SCREEN → CONTROL-1 SETTING SCREEN]

You can set parameter of control-1 group (SP, SLP, A/M, MOUT, OPMODE, FUZZY). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

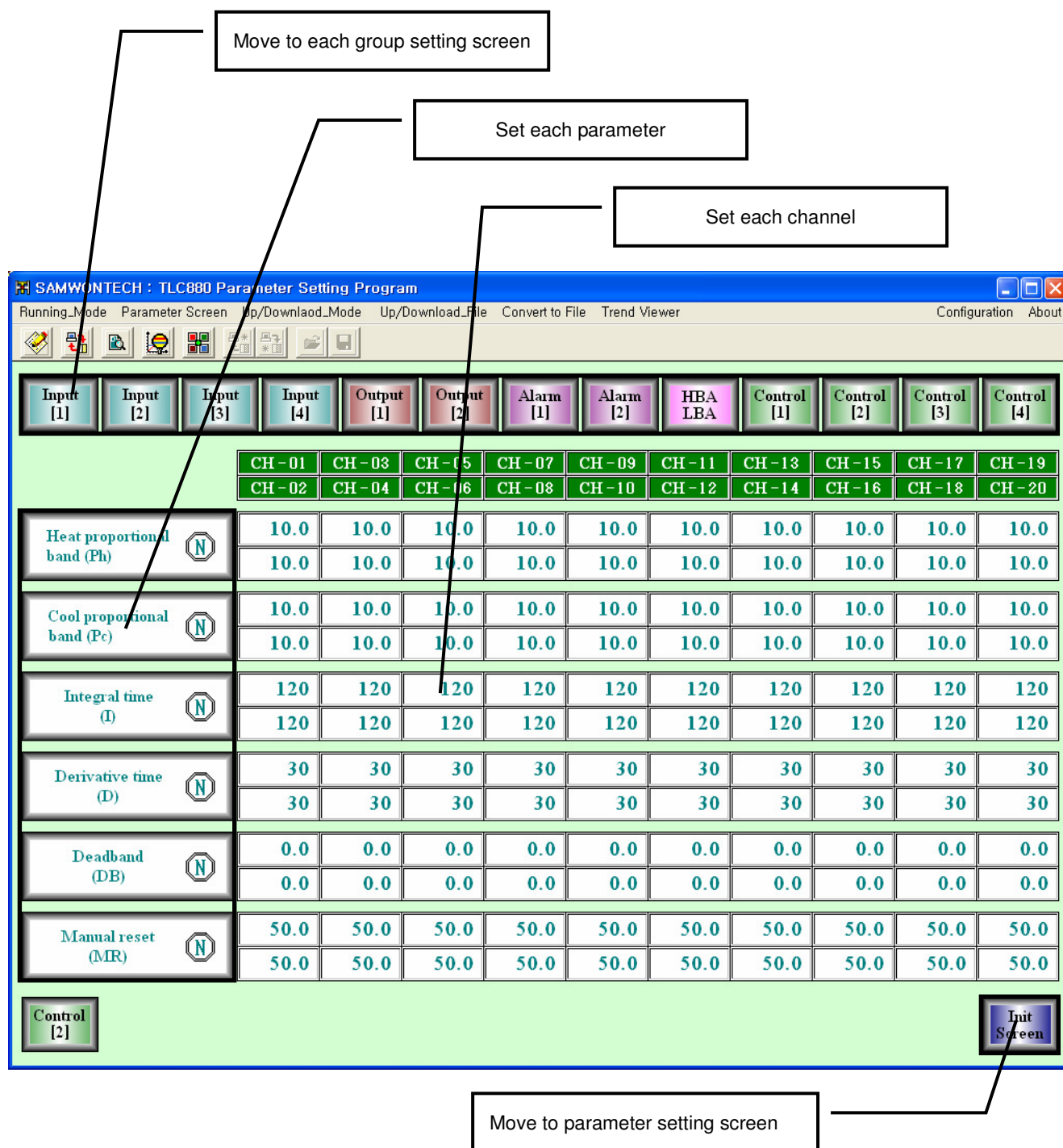
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Temperature set value (SP)	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
Slope set value (SLP)	0	0	0	0	0	0	0	0	0	0
Controller Auto or Man output (A/M)	0	0	0	0	0	0	0	0	0	0
Man output value (MOUT)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operation mode (OPMODE)	3	3	3	3	3	3	3	3	3	3
Overshoot reduction (FUZZY)	0	0	0	0	0	0	0	0	0	0

(PIC 23) CONTROL-1 SETTING SCREEN

2.14. CONTROL-2 SETTING SCREEN [PARAMETER SCREEN → CONTROL-2 SETTING SCREEN]

You can set parameter of control-2 group (Ph, Pc, I, D, DB, MR). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

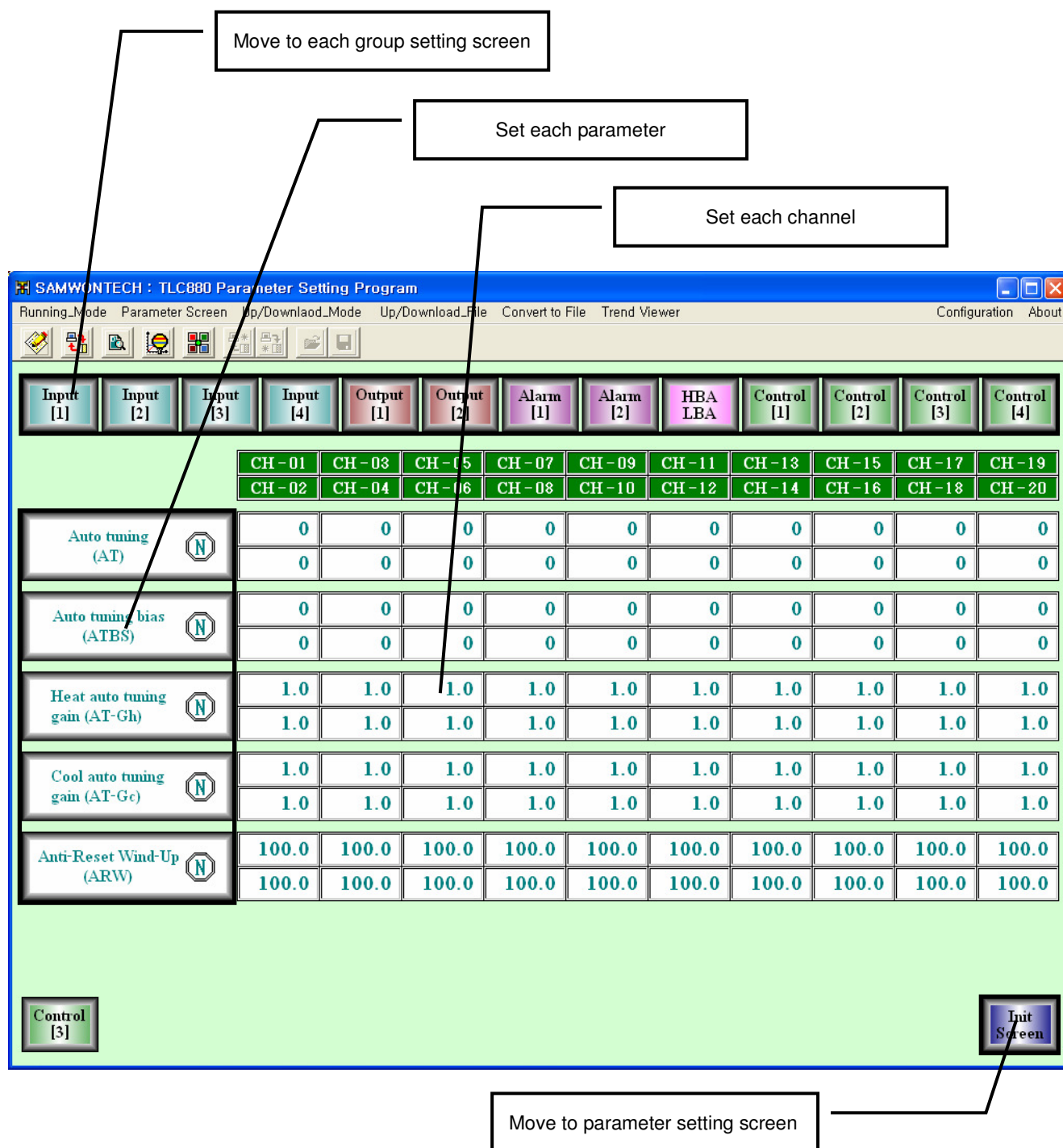
Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Heat proportional band (Ph)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Cool proportional band (Pc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Integral time (I)	120	120	120	120	120	120	120	120	120	120
Derivative time (D)	30	30	30	30	30	30	30	30	30	30
Deadband (DB)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manual reset (MR)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

(PIC 24) CONTROL-2 SETTING SCREEN

2.15. CONTROL-3 SETTING SCREEN [PARAMETER SCREEN → CONTROL-3 SETTING SCREEN]

You can set parameter of control-3 group (AT, ATBS, AT-Gh, AT-Gc, ARW). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Auto tuning (AT)	0	0	0	0	0	0	0	0	0	0
Auto tuning bias (ATBS)	0	0	0	0	0	0	0	0	0	0
Heat auto tuning gain (AT-Gh)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cool auto tuning gain (AT-Gc)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Anti-Reset Wind-Up (ARW)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Control [3]

Init Screen

(PIC 25) CONTROL-3 SETTING SCREEN

2.16. CONTROL-4 SETTING SCREEN [PARAMETER SCREEN → CONTROL-4 SETTING SCREEN]

You can set parameter of control-4 group (CMOD, ONOFF, CAS.S, CAS.G, CAS.BS). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.

Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

SAMWONTECH : TLC880 Parameter Setting Program

Running_Mode Parameter Screen Up/Download_Mode Up/Download_File Convert to File Trend Viewer Configuration About

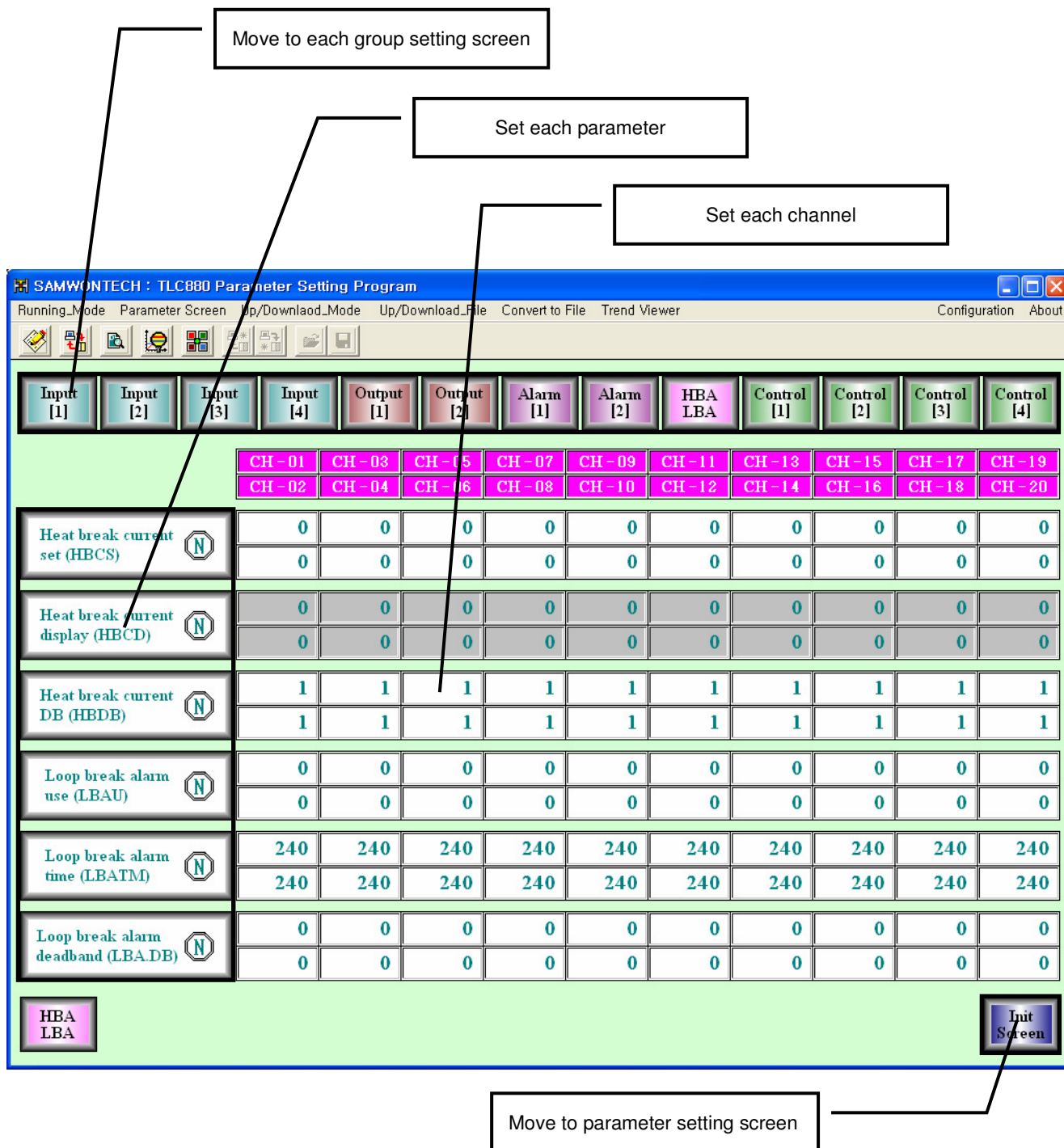
	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Control mode (CMOD)	1	1	1	1	1	1	1	1	1	1
ON/OFF mode (ONOFF)	0	0	0	0	0	0	0	0	0	0
Cascade data select (CAS.S)	0	0	0	0	0	0	0	0	0	0
Cascade gain (CAS.G)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Cascade bias (CAS.BS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Control [4] Init Screen

(PIC 26) CONTROL-4 SETTING SCREEN

2.17. HBA/LBA SETTING SCREEN [PARAMETER SCREEN → HBA/LBA SETTING SCREEN]

You can set parameter of HBA/LBA group (HBCS, HBDB, LBAU, LBATM, LBA.DB). You can move to group setting screen, parameter setting screen, and you can change parameter setting as well as each channel's setting.



Move to each group setting screen

Set each parameter

Set each channel

Move to parameter setting screen

	CH-01	CH-03	CH-05	CH-07	CH-09	CH-11	CH-13	CH-15	CH-17	CH-19
	CH-02	CH-04	CH-06	CH-08	CH-10	CH-12	CH-14	CH-16	CH-18	CH-20
Heat break current set (HBCS)	0	0	0	0	0	0	0	0	0	0
Heat break current display (HBDB)	0	0	0	0	0	0	0	0	0	0
Heat break current DB (HBDB)	1	1	1	1	1	1	1	1	1	1
Loop break alarm use (LBAU)	0	0	0	0	0	0	0	0	0	0
Loop break alarm time (LBATM)	240	240	240	240	240	240	240	240	240	240
Loop break alarm deadband (LBA.DB)	0	0	0	0	0	0	0	0	0	0

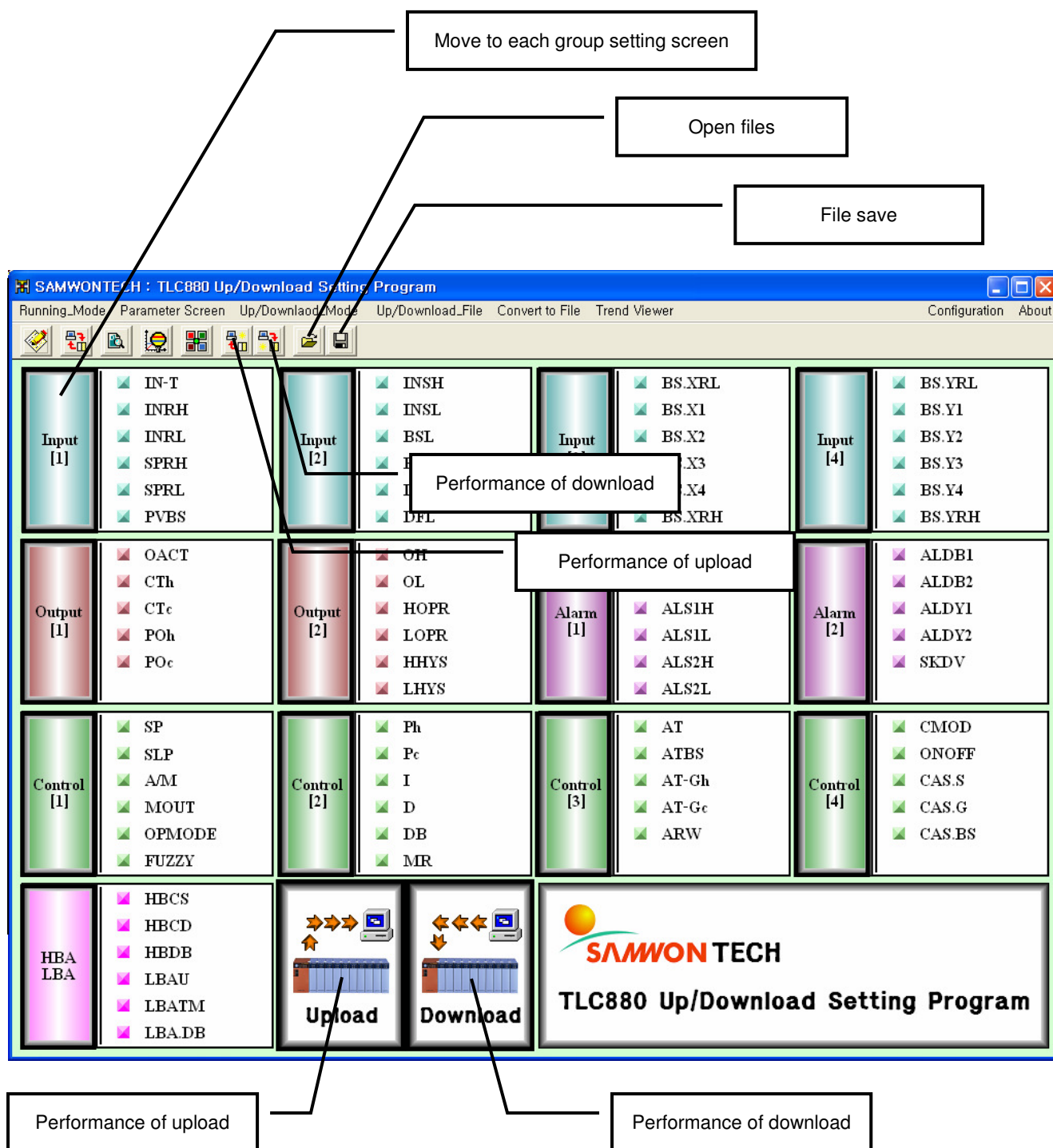
HBA LBA

Init Screen

(PIC 27) HBA/LBA SETTING SCREEN

3. UP/DOWNLOAD MODE COMPOSITION

You can up/download TLC880` parameter data. You can move to each group setting screen when you upload and open files.



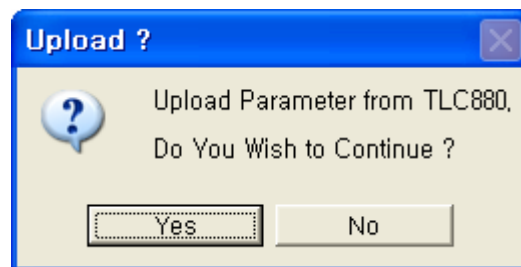
(PIC 28) UP/DOWNLOAD MODE SCREEN

3.1. UPLOAD [UP/DOWNLOAD MODE → UPLOAD]

When you upload files, it reads all of TLC880's parameter. Also you can confirm and modify at each group setting screen.

◆ Select Upload

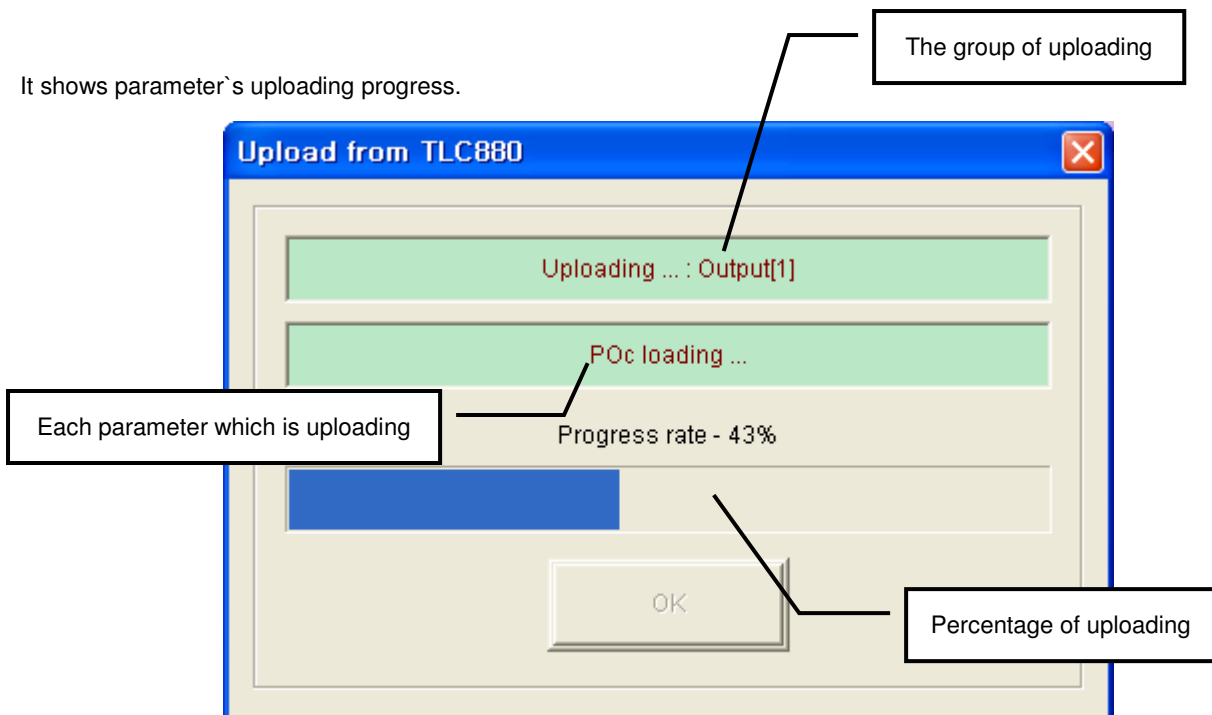
When you press YES at upload dialog screen, uploading will start.



(그림 29) UPLOAD SELECTING SCREEN

◆ UPLOAD PROGRESS

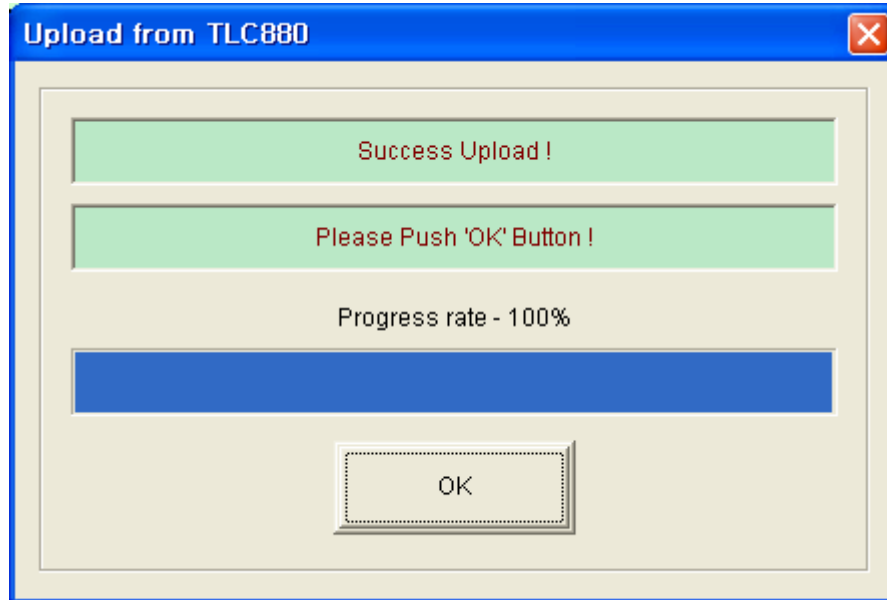
It shows parameter's uploading progress.



(PIC 30) UPLOADING SCREEN

◆ END OF UPLOADING

You have done uploading. Just press OK button



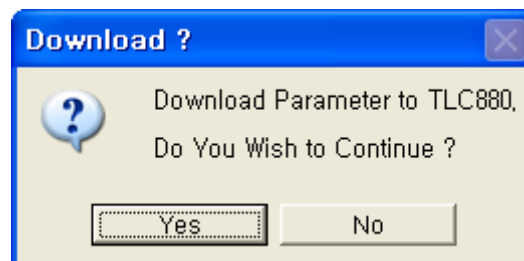
(PIC 31) UPLOADING COMPLETION SCREEN

3.2. DOWNLOAD [UP/DOWNLOAD MODE → DOWN]

You can download optionally parameter which is from uploading or open files.

◆ SELECT DOWNLOAD

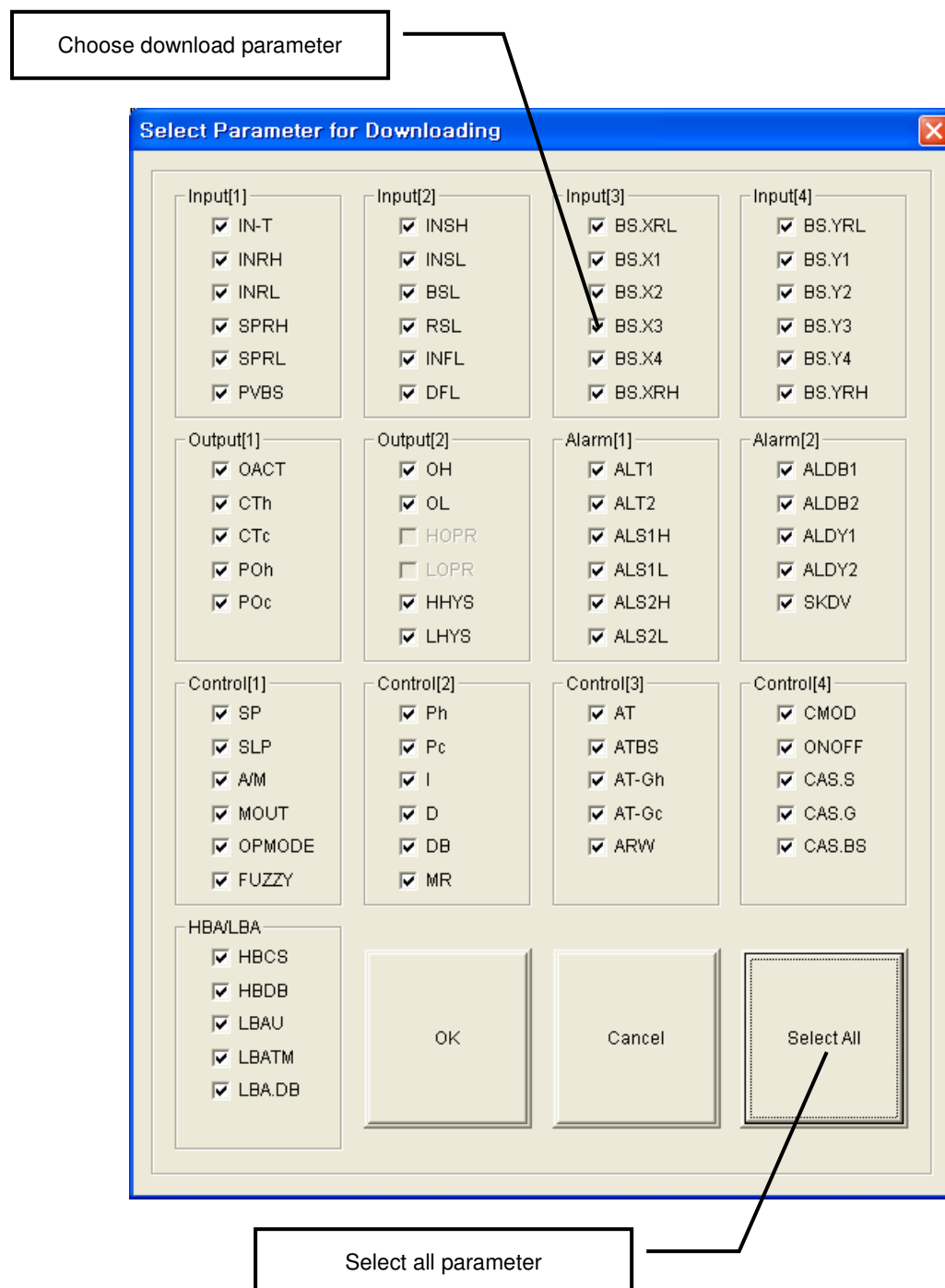
When you press YES at download dialog screen, it will move to select parameter for downloading screen.



(PIC 32) DOWNLOAD SELECTION SCREEN

◆ SELECT PARAMETER FOR DOWNLOADING

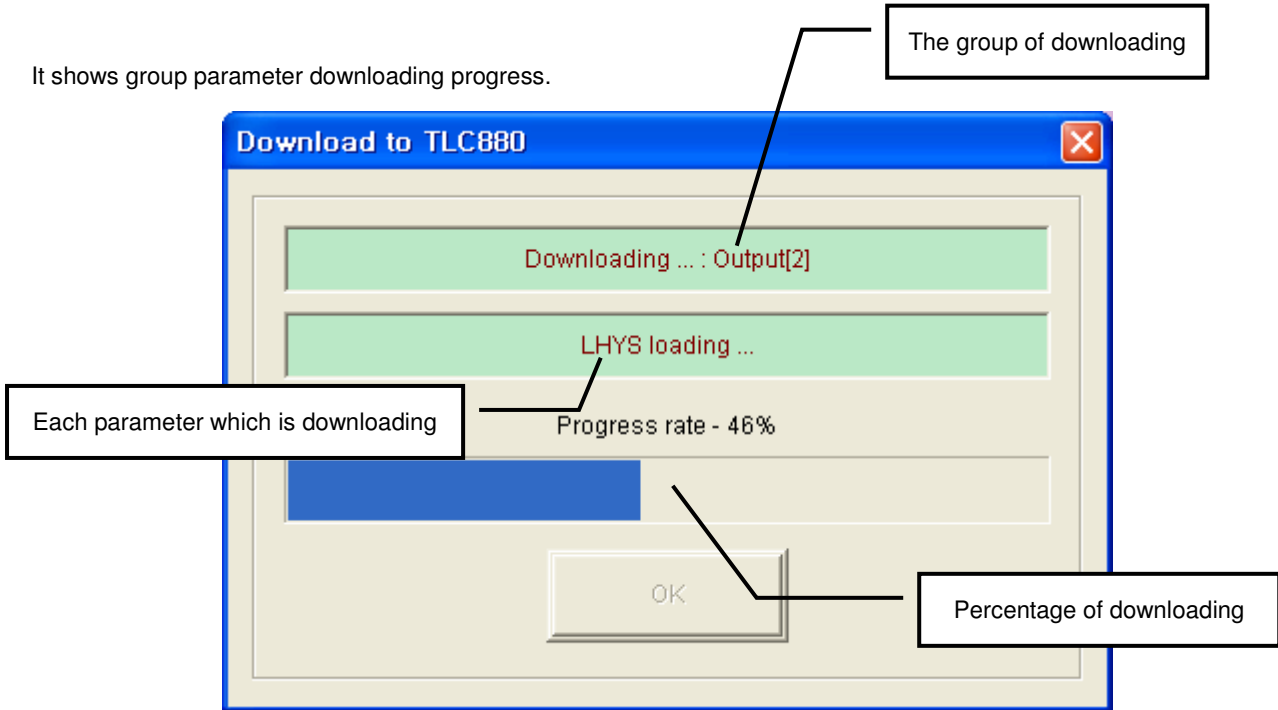
Select parameter which download to TLC880. When you press [SELECT ALL] button, all parameter will be selected



(PIC 33) DOWNLOAD PARAMETER SELECTION SCREEN

◆ DOWNLOAD PROGRESS

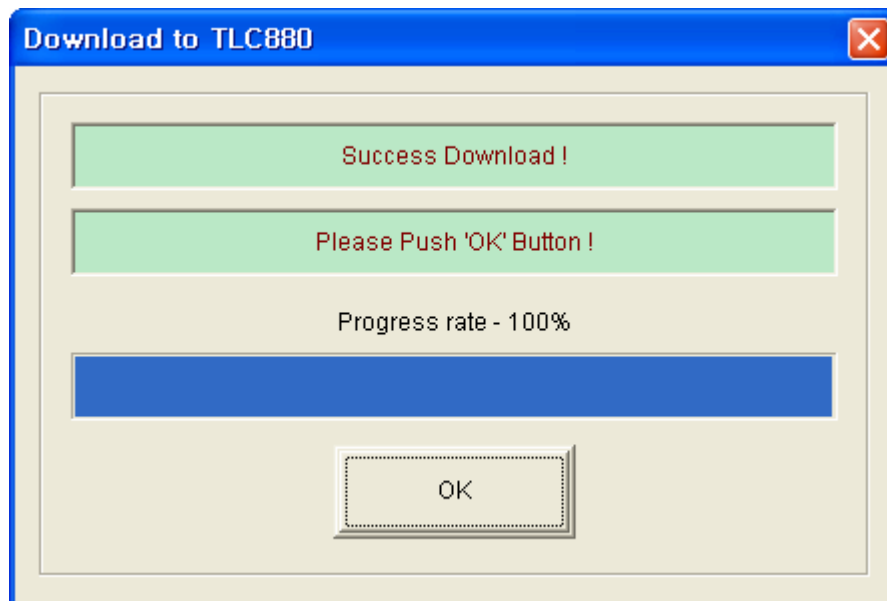
It shows group parameter downloading progress.



(PIC 34) 다운로드 화면

◆ END OF DOWNLOADING

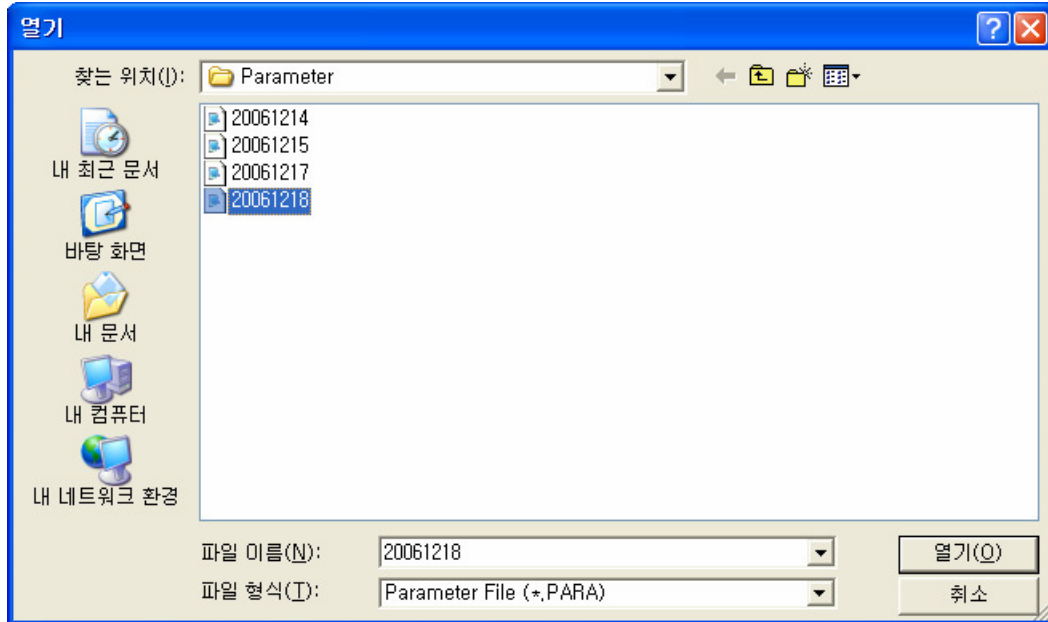
You have done uploading. Just press OK button.



(PIC 35) DOWNLOAD COMPLETION SCREEN

3.3. FILE OPEN [UP/DOWNLOAD_FILE → FILE OPEN]

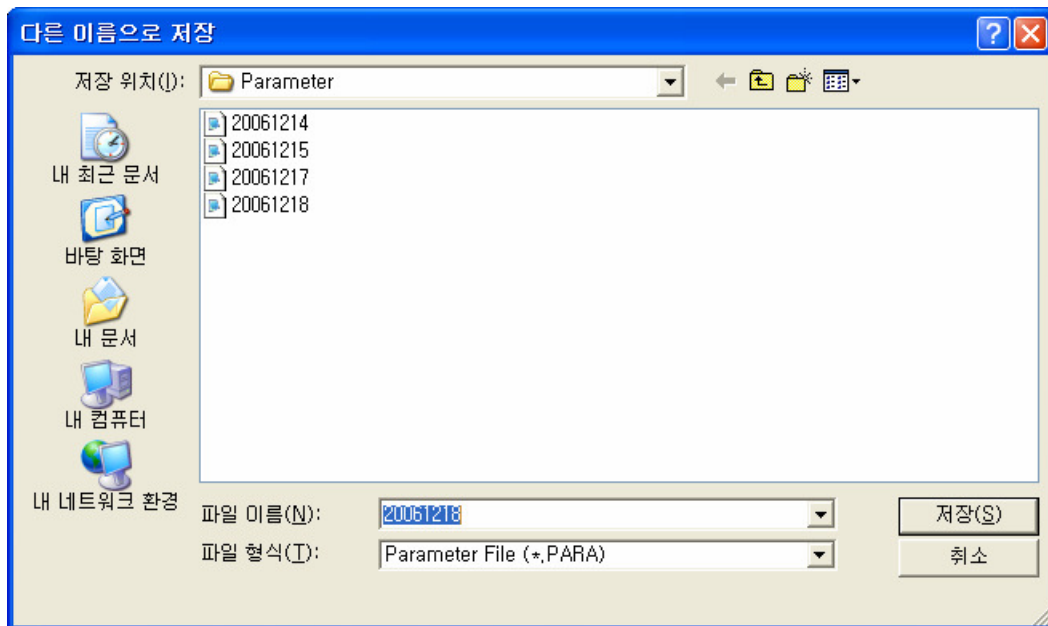
You just do file open.



(PIC 36) FILE OPEN SCREEN

3.4. FILE SAVE [UP/DOWNLOAD_FILE → FILE SAVE]

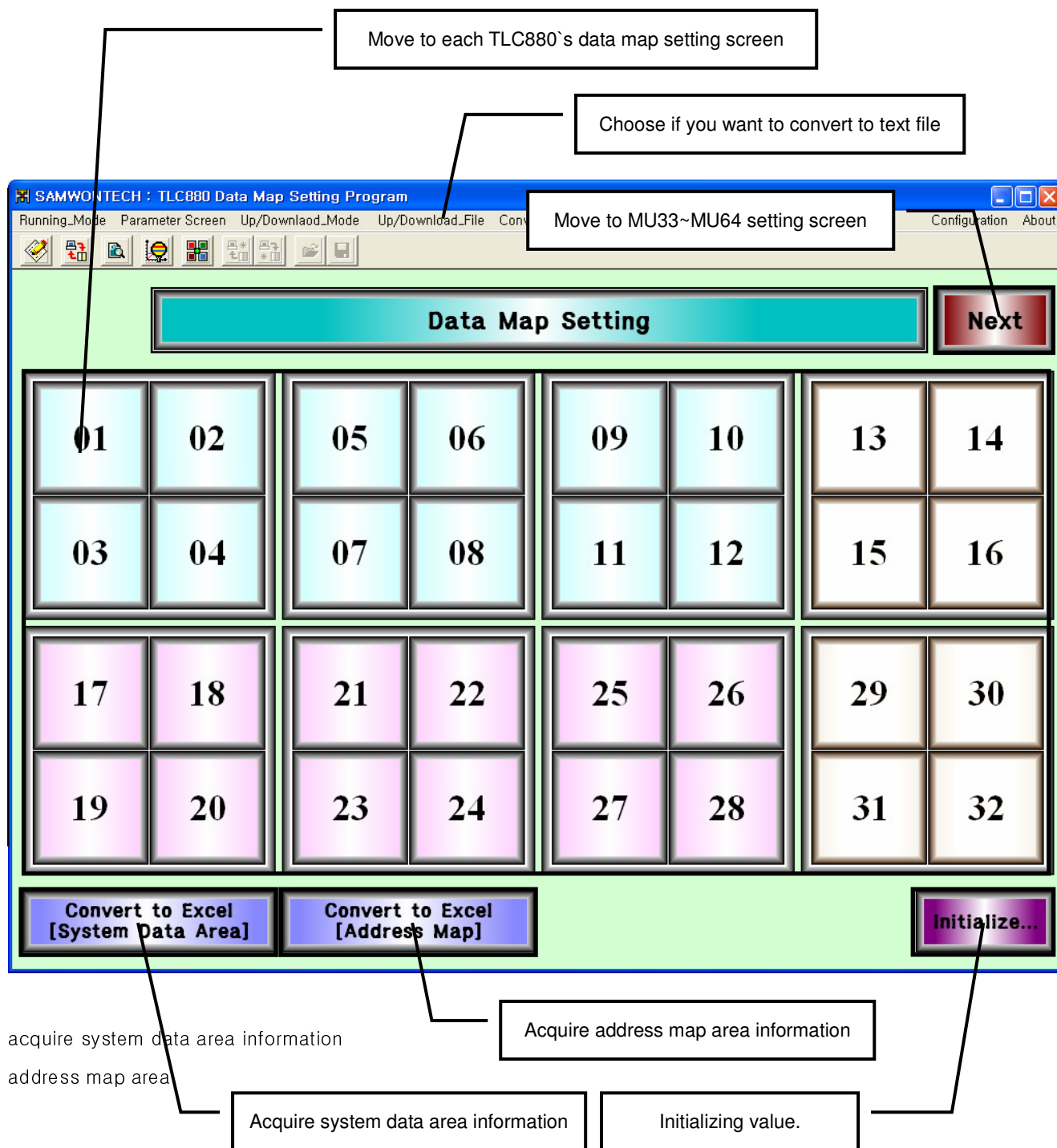
You can save modified contents after uploading or file open.



(PIC 37) FILE SAVE SCREEN

4. DATA MAP SETTING SCREEN

As setting TLC880's status at data map setting screen, you can acquire contents and using address map information which is needed to set to PLC's system data area. Move to MU33~MU64 setting screen

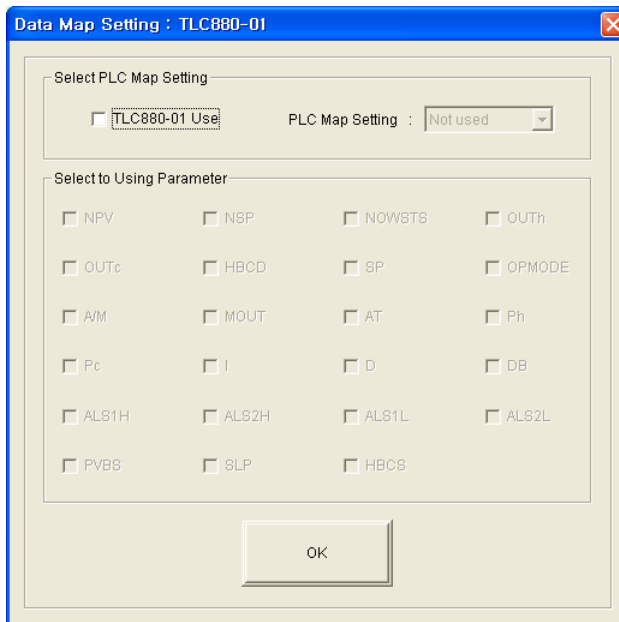


(PIC 38) DATA MAP SETTING SCREEN

4.1. DATA MAP SETTING

◆ DATA MAP SETTING SCREEN – 1

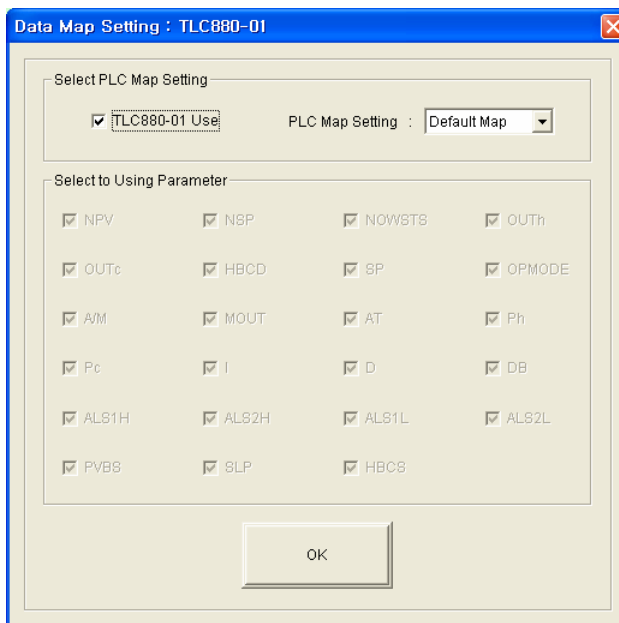
This is first screen of data map setting. If you want to use, check [TLC880-## use].



(PIC 39) DATA MAP SETTING – FIRST SCREEN

◆ DATA MAP SETTING SCREEN – 2

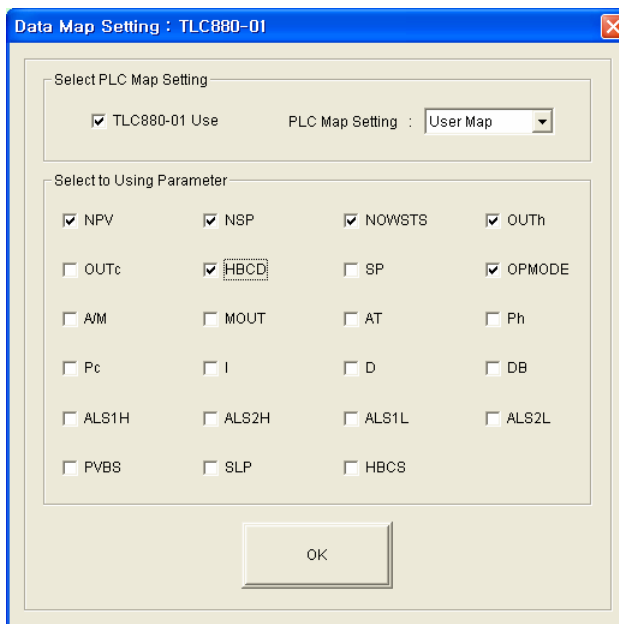
This screen shows that PLC map setting is [Default Map]. It chooses all of parameter. It assigns 500 word areas to PLC.



(PIC 40) DATA MAP SETTING – DEFAULTS MAP SCREEN

◆ DATA MAP SETTING SCREEN – 3

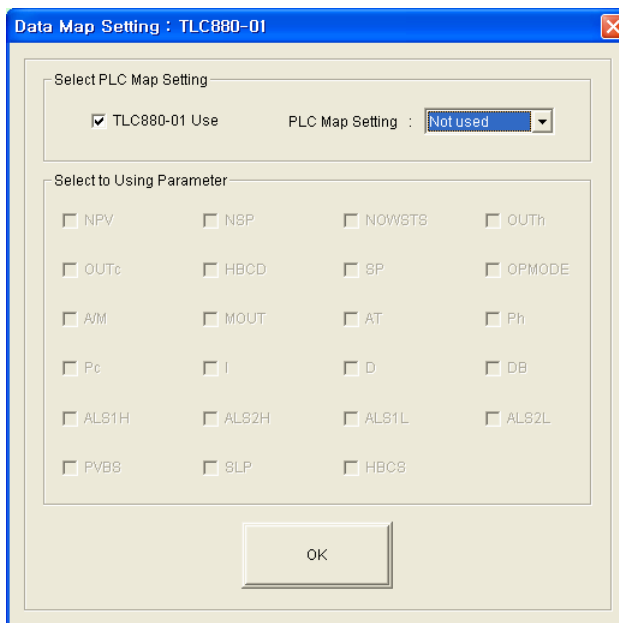
This screen shows that PLC map setting is [User Map], you can choose parameter what you want. It will assign Basic area (40 word) + Selection (Num of selection * 20 word) to PLC, If you don't select at all, It will assign just Basic area(40 word) + Read area(120 word).



(PIC 41) DATA MAP SETTING – USER MAP SCREEN

◆ DATA MAP SETTING SCREEN – 4

It shows that PLC map setting is [Not used], no parameter will be chosen. It doesn't assign any parameter to PLC.



(PIC 42) DATA MAP SETTING – NOT USED SCREEN

4.2. SYSTEM DATA CONVERT [CONVERT TO FILE → SYSTEM DATA AREA]

It converts from contents of PLC's system data area to excel or txt file

◆ CONVERT TO TXT FILE

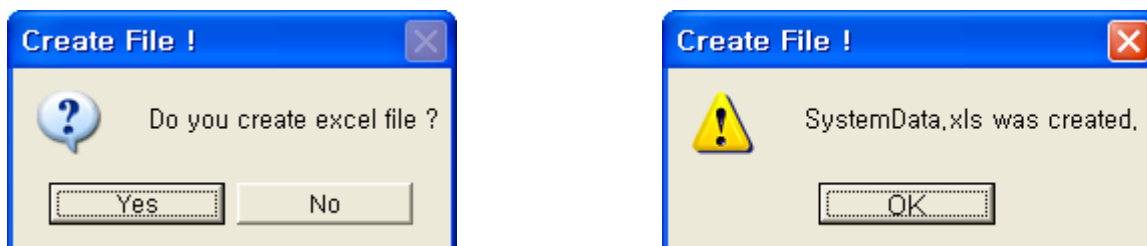
If you press [YES] at Create File dialog screen, It will generate content of PLC's system data area to C:\Program Files\TLC880(Kor)\DataFile. It is SystemData.txt file.



(PIC 43) SYSTEM DATA AREA'S TEXT FILE CREATION AND RESULT SCREEN

◆ CONVERT TO EXCEL FILE

If you press [YES] at Create File dialog screen, It will generate content of PLC's system data area to C:\Program Files\TLC880(Kor)\DataFile. It is SystemData.xls file.



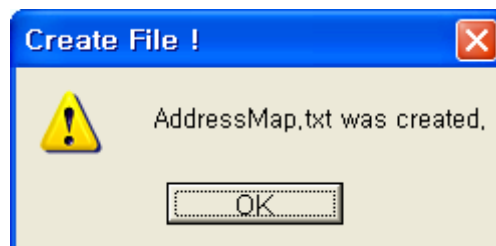
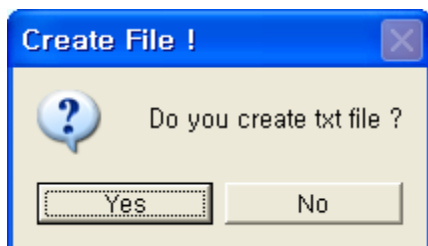
(PIC 44) SYSTEM DATA AREA'S EXCEL FILE CREATION AND RESULT SCREEN

4.3. ADREES MAP CONVERT [CONVERT TO FILE → ADDRESS MAP]

It converts from data address which TLC880 sends to PLC to excel or txt file.

◆ CONVERT TO TXT FILE

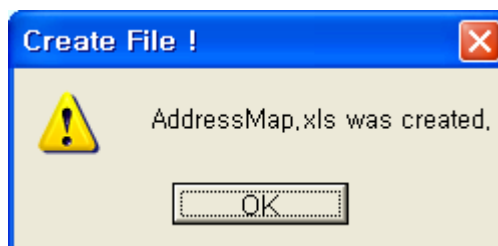
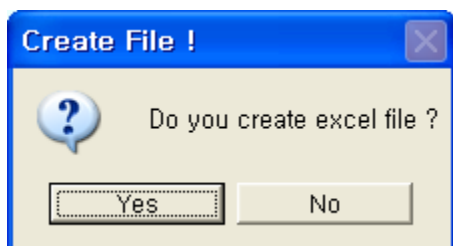
If you press [YES] at Create File dialog screen, It will generate data address which TLC880 sends to PLC to C:\Program Files\TLC880(Kor)\DataFile. It is AddressMap.txt file.



(PIC 45) ADDRESS MAP'S TXT FILE CREATION AND RESULT SCREEN

◆ CONVERT TO EXCEL FILE

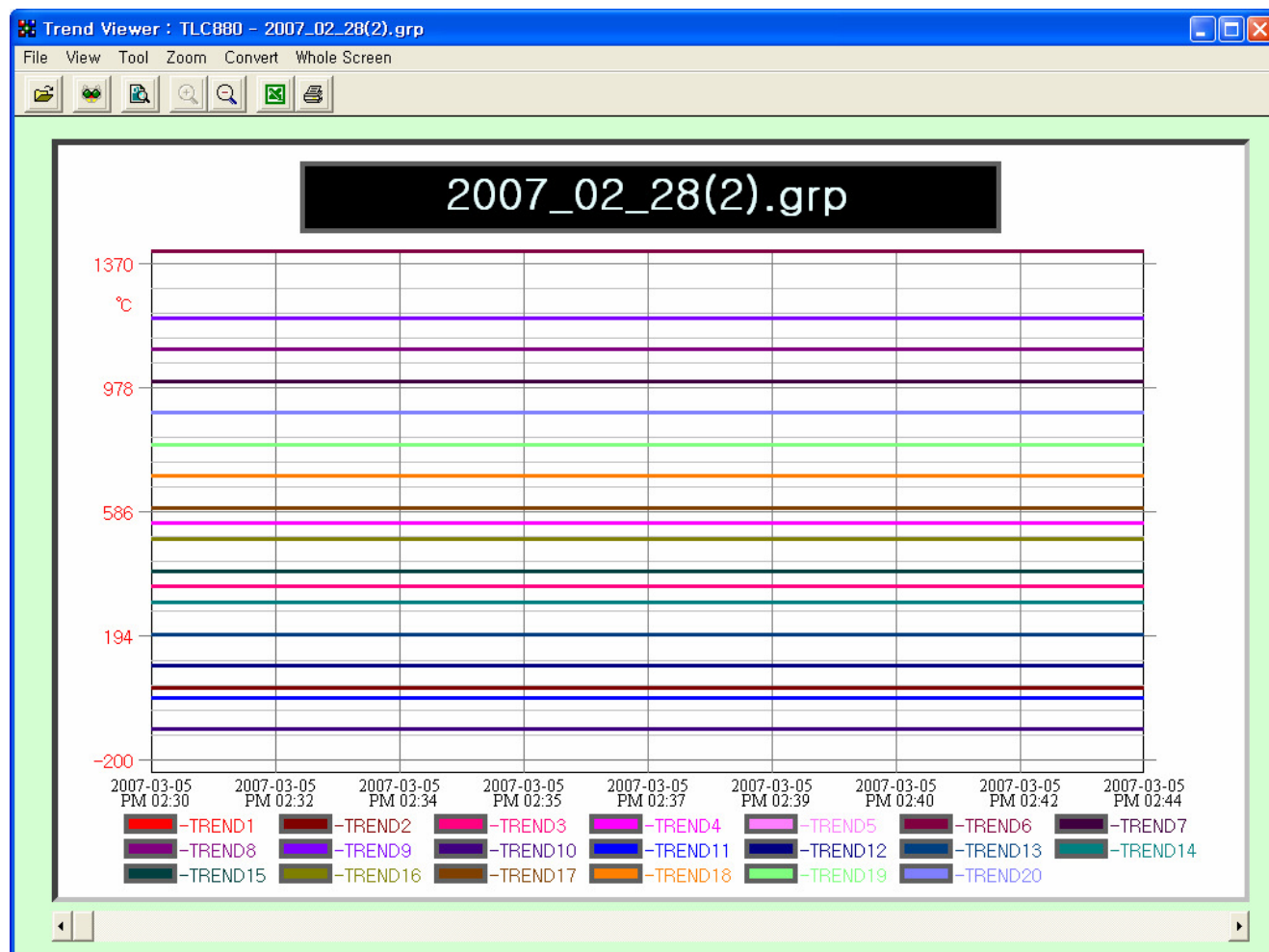
If you press [YES] at Create File dialog screen, It will generate data address which TLC880 sends to PLC to C:\Program Files\TLC880(Kor)\DataFile. It is AddressMap.xls file.



(PIC 46) ADDRESS MAP'S EXCEL FILE CREATION AND RESULT SCREEN

5. TREND VIEWER SCREEN

You can analyze or convert graph which is saved.



(PIC 47) TREND VIEWER SCREEN

[FILE → OPEN] : Open saved file which is trend data.

[FILE → PRINT] : Print screen of status.

[VIEW → DATA VIEW] : Show data view.

[TOOL → SET GRAPH] : Set state of trend mark.

[ZOOM → ZOOM IN] : Zoom in saved trend.

[ZOOM → ZOOM OUT] : Zoom out saved trend..

[CONVERT → TO EXCEL] : Convert from saved trend data to excel file.

[CONVERT → TO TXT] : Convert from saved trend data to txt file.

◆ DATA VIEW

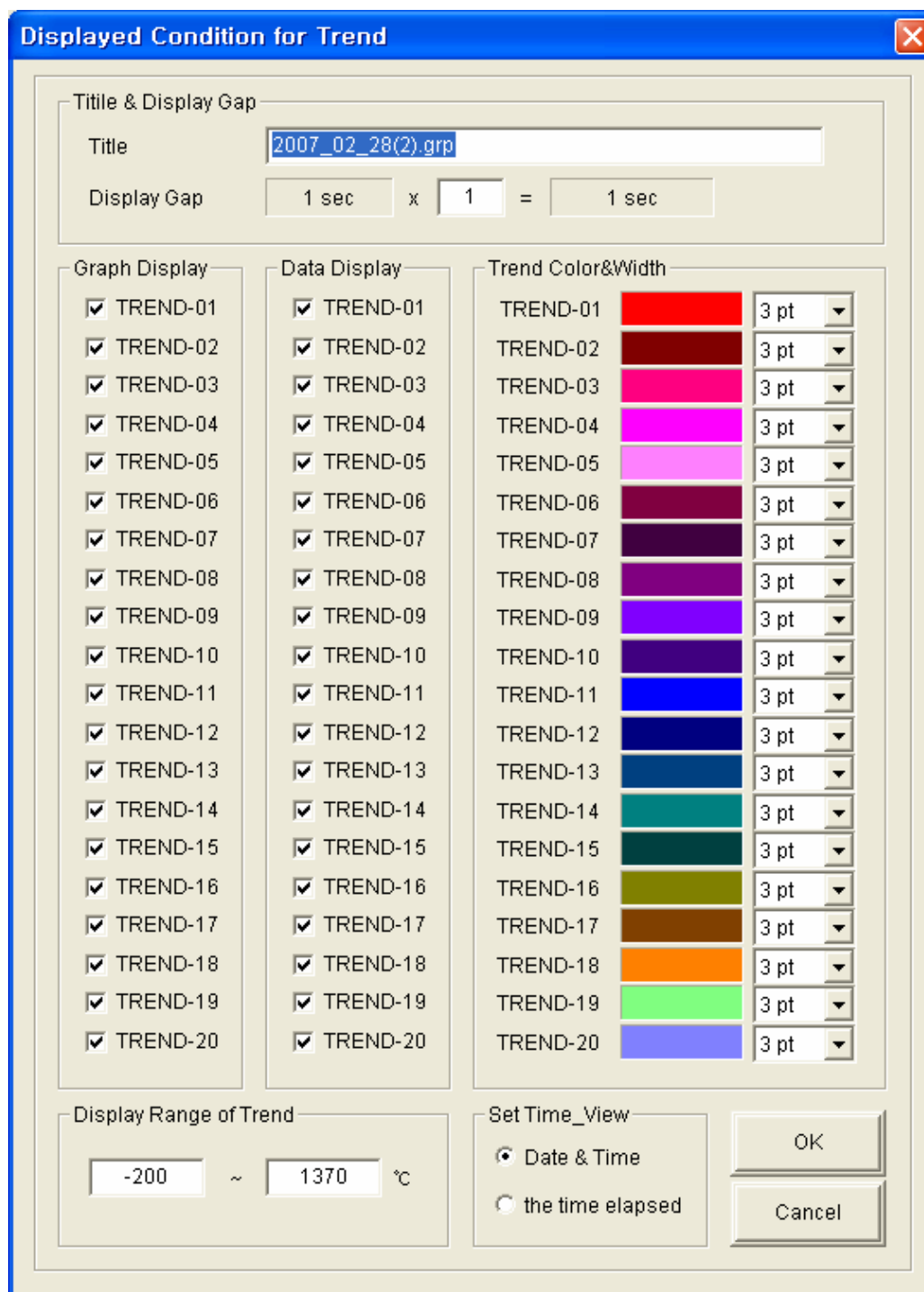
You can find out state of trend information from data view below.



(PIC 48) DATA VIEW SCREEN

◆ SETTING DISPLAYED CONDITION FOR TREND.

You can set displayed condition for trend.



Displayed Condition for Trend

Title & Display Gap

Title: 2007_02_28(2).grp

Display Gap: 1 sec x 1 = 1 sec

Graph Display

- ☒ TREND-01
- ☒ TREND-02
- ☒ TREND-03
- ☒ TREND-04
- ☒ TREND-05
- ☒ TREND-06
- ☒ TREND-07
- ☒ TREND-08
- ☒ TREND-09
- ☒ TREND-10
- ☒ TREND-11
- ☒ TREND-12
- ☒ TREND-13
- ☒ TREND-14
- ☒ TREND-15
- ☒ TREND-16
- ☒ TREND-17
- ☒ TREND-18
- ☒ TREND-19
- ☒ TREND-20

Data Display

- ☒ TREND-01
- ☒ TREND-02
- ☒ TREND-03
- ☒ TREND-04
- ☒ TREND-05
- ☒ TREND-06
- ☒ TREND-07
- ☒ TREND-08
- ☒ TREND-09
- ☒ TREND-10
- ☒ TREND-11
- ☒ TREND-12
- ☒ TREND-13
- ☒ TREND-14
- ☒ TREND-15
- ☒ TREND-16
- ☒ TREND-17
- ☒ TREND-18
- ☒ TREND-19
- ☒ TREND-20

Trend Color&Width

TREND-01		3 pt
TREND-02		3 pt
TREND-03		3 pt
TREND-04		3 pt
TREND-05		3 pt
TREND-06		3 pt
TREND-07		3 pt
TREND-08		3 pt
TREND-09		3 pt
TREND-10		3 pt
TREND-11		3 pt
TREND-12		3 pt
TREND-13		3 pt
TREND-14		3 pt
TREND-15		3 pt
TREND-16		3 pt
TREND-17		3 pt
TREND-18		3 pt
TREND-19		3 pt
TREND-20		3 pt

Display Range of Trend

-200 ~ 1370 °C

Set Time_View

☒ Date & Time

☐ the time elapsed

OK

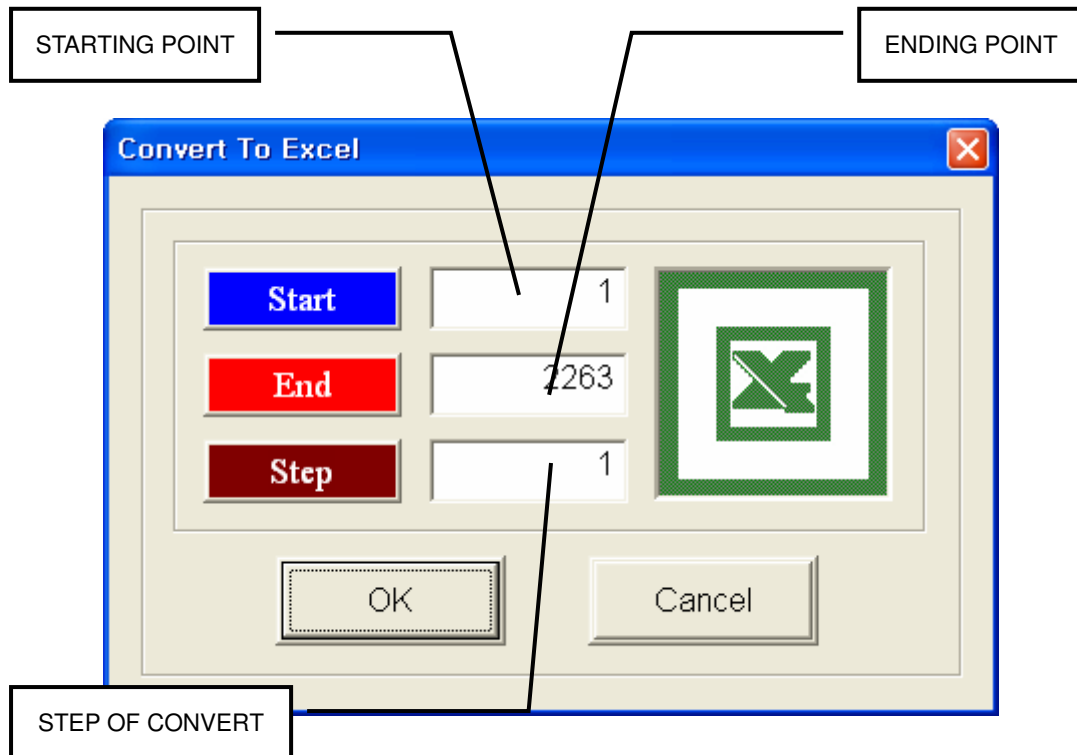
Cancel

(PIC 49) DISPLAYED CONDITION FOR TREND SCREEN

◆ FILE CONVERT

You can convert from opened data file to Excel file at below excel file creation screen.

Converted file would be same place with opened file.



(PIC 50) EXCEL FILE CREATION SCREEN

6. INITIALIZATION

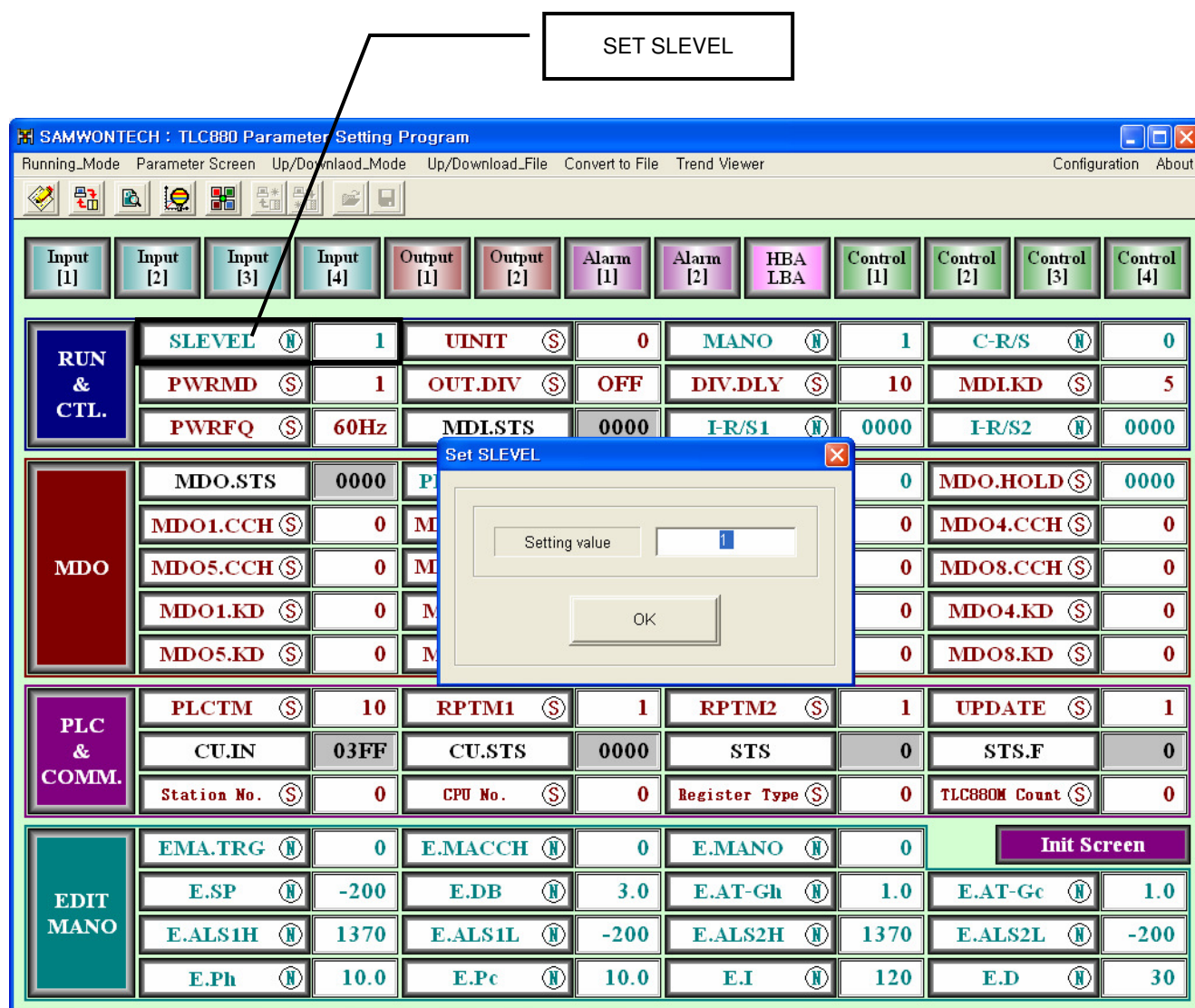
All value will be set at the initial data. Perform initializing setting – 1 and 2 as below.

※ IN CASE OF INITIALIZATION

- ☞ First connection TLC880's Main Unit with Control Unit
- ☞ When Control Unit is added or removed, alteration of turn

◆ INITIALIZATION SETTING – 1 : SLEVEL SETTING

SET SLEVEL TO 1[Security level 1].



(PIC 51) INITIALIZATION SETTING – 1 : SLEVEL SETTING SCREEN

◆ INITIALIZATION SETTING – 2 : UNIT INITIALIZATION SETTING

SET UNIT TO 2 [Factory default init].

SET UNIT INITIALIZATION

SAMWONTECH : TLC880 Parameter Setting Program

Running_Mode Parameter Screen Up/Download_Mode Up/Download_File Convert to File Trend Viewer Configuration About

Input [1]	Input [2]	Input [3]	Input [4]	Output [1]	Output [2]	Alarm [1]	Alarm [2]	HBA LBA	Control [1]	Control [2]	Control [3]	Control [4]																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> RUN & CTL. </div> <div style="width: 85%;"> <table border="1"> <tr> <td>SLEVEL (N)</td> <td>1</td> <td>UNIT (S)</td> <td>0</td> <td>MANO (N)</td> <td>1</td> <td>C-R/S (N)</td> <td>0</td> </tr> <tr> <td>PWRMD (S)</td> <td>1</td> <td>OUT.DIV (S)</td> <td>OFF</td> <td>DIV.DLY (S)</td> <td>10</td> <td>MDLKD (S)</td> <td>5</td> </tr> <tr> <td>PWRFQ (S)</td> <td>60Hz</td> <td>MDLSTS</td> <td>0000</td> <td>I-R/S1 (N)</td> <td>0000</td> <td>I-R/S2 (N)</td> <td>0000</td> </tr> </table> </div> </div>													SLEVEL (N)	1	UNIT (S)	0	MANO (N)	1	C-R/S (N)	0	PWRMD (S)	1	OUT.DIV (S)	OFF	DIV.DLY (S)	10	MDLKD (S)	5	PWRFQ (S)	60Hz	MDLSTS	0000	I-R/S1 (N)	0000	I-R/S2 (N)	0000									
SLEVEL (N)	1	UNIT (S)	0	MANO (N)	1	C-R/S (N)	0																																						
PWRMD (S)	1	OUT.DIV (S)	OFF	DIV.DLY (S)	10	MDLKD (S)	5																																						
PWRFQ (S)	60Hz	MDLSTS	0000	I-R/S1 (N)	0000	I-R/S2 (N)	0000																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> MDO </div> <div style="width: 85%;"> <table border="1"> <tr> <td>MDO.STS</td> <td>0000</td> <td>MDO1.CCH (S)</td> <td>0</td> <td>MDO5.CCH (S)</td> <td>0</td> <td>MDO1.KD (S)</td> <td>0</td> <td>MDO5.KD (S)</td> <td>0</td> <td>MDO.HOLD (S)</td> <td>0000</td> <td>MDO4.CCH (S)</td> <td>0</td> <td>MDO8.CCH (S)</td> <td>0</td> <td>MDO4.KD (S)</td> <td>0</td> <td>MDO8.KD (S)</td> <td>0</td> </tr> </table> </div> </div>													MDO.STS	0000	MDO1.CCH (S)	0	MDO5.CCH (S)	0	MDO1.KD (S)	0	MDO5.KD (S)	0	MDO.HOLD (S)	0000	MDO4.CCH (S)	0	MDO8.CCH (S)	0	MDO4.KD (S)	0	MDO8.KD (S)	0													
MDO.STS	0000	MDO1.CCH (S)	0	MDO5.CCH (S)	0	MDO1.KD (S)	0	MDO5.KD (S)	0	MDO.HOLD (S)	0000	MDO4.CCH (S)	0	MDO8.CCH (S)	0	MDO4.KD (S)	0	MDO8.KD (S)	0																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> PLC & COMM. </div> <div style="width: 85%;"> <table border="1"> <tr> <td>PLCTM (S)</td> <td>10</td> <td>RPTM1 (S)</td> <td>1</td> <td>RPTM2 (S)</td> <td>1</td> <td>UPDATE (S)</td> <td>1</td> </tr> <tr> <td>CU.IN</td> <td>03FF</td> <td>CU.STS</td> <td>0000</td> <td>STS</td> <td>0</td> <td>STS.F</td> <td>0</td> </tr> <tr> <td>Station No. (S)</td> <td>0</td> <td>CPU No. (S)</td> <td>0</td> <td>Register Type (S)</td> <td>0</td> <td>TLC880M Count (S)</td> <td>0</td> </tr> </table> </div> </div>													PLCTM (S)	10	RPTM1 (S)	1	RPTM2 (S)	1	UPDATE (S)	1	CU.IN	03FF	CU.STS	0000	STS	0	STS.F	0	Station No. (S)	0	CPU No. (S)	0	Register Type (S)	0	TLC880M Count (S)	0									
PLCTM (S)	10	RPTM1 (S)	1	RPTM2 (S)	1	UPDATE (S)	1																																						
CU.IN	03FF	CU.STS	0000	STS	0	STS.F	0																																						
Station No. (S)	0	CPU No. (S)	0	Register Type (S)	0	TLC880M Count (S)	0																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> EDIT MANO </div> <div style="width: 85%;"> <table border="1"> <tr> <td>EMA.TRG (N)</td> <td>0</td> <td>E.MACCH (N)</td> <td>0</td> <td>E.MANO (N)</td> <td>0</td> <td colspan="3" style="text-align: center;">Init Screen</td> </tr> <tr> <td>E.SP (N)</td> <td>-200</td> <td>E.DB (N)</td> <td>3.0</td> <td>E.AT-Gh (N)</td> <td>1.0</td> <td>E.AT-Gc (N)</td> <td>1.0</td> </tr> <tr> <td>E.ALS1H (N)</td> <td>1370</td> <td>E.ALS1L (N)</td> <td>-200</td> <td>E.ALS2H (N)</td> <td>1370</td> <td>E.ALS2L (N)</td> <td>-200</td> </tr> <tr> <td>E.Ph (N)</td> <td>10.0</td> <td>E.Pc (N)</td> <td>10.0</td> <td>E.I (N)</td> <td>120</td> <td>E.D (N)</td> <td>30</td> </tr> </table> </div> </div>													EMA.TRG (N)	0	E.MACCH (N)	0	E.MANO (N)	0	Init Screen			E.SP (N)	-200	E.DB (N)	3.0	E.AT-Gh (N)	1.0	E.AT-Gc (N)	1.0	E.ALS1H (N)	1370	E.ALS1L (N)	-200	E.ALS2H (N)	1370	E.ALS2L (N)	-200	E.Ph (N)	10.0	E.Pc (N)	10.0	E.I (N)	120	E.D (N)	30
EMA.TRG (N)	0	E.MACCH (N)	0	E.MANO (N)	0	Init Screen																																							
E.SP (N)	-200	E.DB (N)	3.0	E.AT-Gh (N)	1.0	E.AT-Gc (N)	1.0																																						
E.ALS1H (N)	1370	E.ALS1L (N)	-200	E.ALS2H (N)	1370	E.ALS2L (N)	-200																																						
E.Ph (N)	10.0	E.Pc (N)	10.0	E.I (N)	120	E.D (N)	30																																						

Set UINIT

Setting value

2

OK

(PIC 52) INITIALIZATION SETTING – 2 : UNIT INITIALIZATION SCREEN