

CHAPTER 18

SETTING UP TARGET PANEL

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18.1. System Screens

System screens are screens that are built into an application and can be accessed by end-users in the target panel. System screens are window screens. Each of them has a title bar at the top of the screen that displays a line of text. The text indicates the purpose of the screen. You can press the title bar and hold it down to move the screen to the position you want and then release the pressing to locate the screen.

- The system screens include:
- Built-in keypads that are used to input numbers, ASCII characters, or passwords.
 - The Select File Window and Rename window are used for file operations.

With built-in keypads, you don't have to spend any time on programming them.

18.1.1. Numeric Keypad

The target panel displays the numeric keypad to let you enter a value when you press and release the Numeric Entry object, Word Button object, and Recipe Table object. The following are examples of Numeric Keypads:

Decimal Numeric Keypad

Numeric Keypad

0 ~ 9999

1

2

3

Esc

4

5

6

Clr

7

8

9

Del

0

Ent

Hexadecimal Numeric Keypad

Hexadecimal Entry

0 ~ FFFF

1

2

3

A

Esc

4

5

6

B

Clr

7

8

9

C

Del

0

F

E

D

Ent

Octal Numeric Keypad

Numeric Keypad

0 ~ 7777

1

2

3

Esc

4

5

6

Clr

7

Del

0

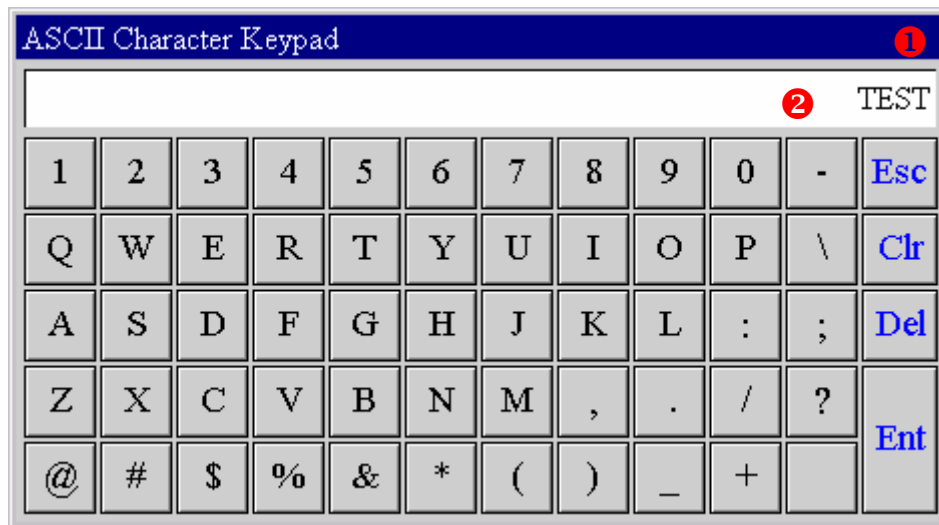
Ent

The following table describes each item on the keypad screen.

Item		Description
① Title Bar		Press and hold the title bar to move the window screen.
② Keypad Display		Display the current input value
③ Allowable input range display		Display the allowable input range
Buttons	+	Press the button to increase the value by 1
	—	Press the button to decrease the value by 1
	0 - 7	Press the number buttons of the Octal Numeric Keypad to enter a number from 0 to 7
	0 - 9	Press the number buttons of the Decimal Numeric Keypad to enter a number from 0 to 9
	0 - F	Press the number buttons of the Hexadecimal Numeric Keypad to enter a number from 0 to F
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input value.
	Del	Press it to delete the preceding character.
	Ent	Press it to close the screen and accept all changes.

18.1.2. Character Keypad

The target panel displays the ASCII Character keypad to let you enter an ASCII character when you press and release the Character Entry object. The following is an example of the Character Keypad.

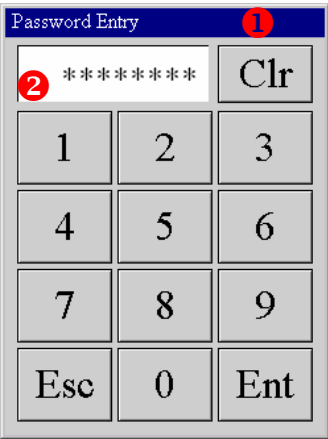


The following table describes each item on the keypad screen.

Item		Description
① Title Bar		Press and hold the title bar to move the window screen.
② Keypad Display		Display the current input string
Buttons	ASCII Characters	Press the button to enter an ASCII character.
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input value.
	Del	Press it to delete the preceding character.
	Ent	Press it to close the screen and accept all changes.

18.1.3. Password Keypad

The following is an example of the Password Keypad.



The following table describes each item on the Password Keypad.

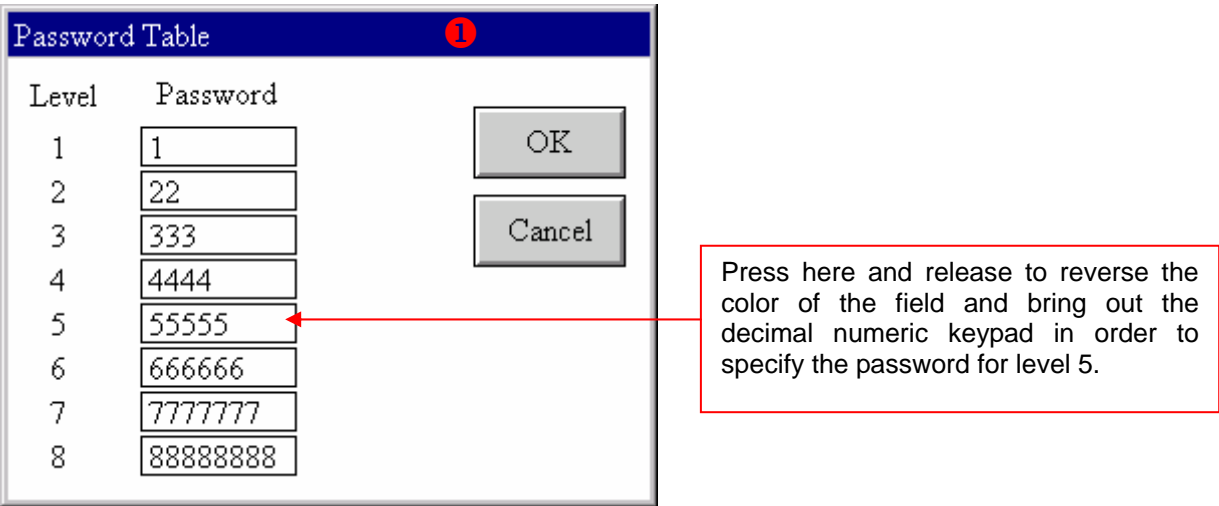
Item		Description
① Title Bar		Press the title bar and hold to move the window screen.
② Password Display		Display the current input password
Buttons	0 - 9	Press the number buttons to enter a number from 0 to 9. It will display asterisks (*) instead of the number.
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input password.
	Ent	Press it to close the screen and input the password.

18.1.4. Password Table

To register new passwords or modify existing passwords for your application, you have to create a function button on a screen and assign the function “Show Password Table” to the button. When the panel is running the application, a level 8 user can get the password table as shown below when he presses and releases the function button that shows the password table.

Note: The user can only get the passwords whose levels are lower than or equal to the user’s level for editing. For example, if the current user lever is 5, the password table will only show the passwords for levels 1 to 5.

The following is an example of the Password Table when the current user lever is 8.



The following table describes each item on the keypad screen.

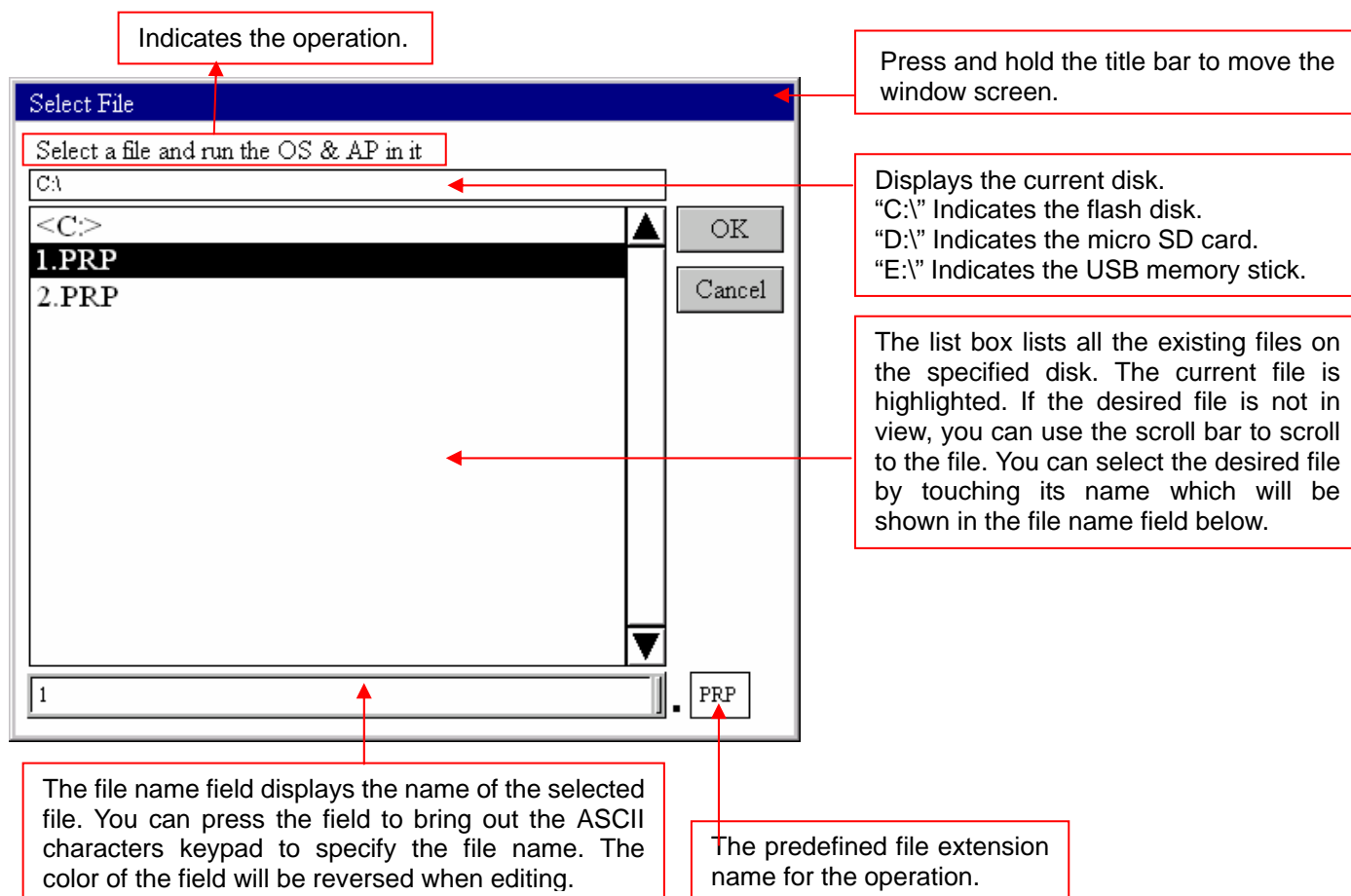
Item	Description
① Title Bar	Press and hold the title bar to move the window screen.
Password	Press the field to bring out the decimal numeric keypad to specify the password for the corresponding user level. A password is a positive integer of up to 8 digits. A password must be unique within the application.
OK	Press it to close the dialog box and accepts all changes.
Cancel	Press it to close the dialog box and discard all changes.

18.1.5. Select File

The Select File screen is only for the panels that support file operations. It allows the user to select a file from the system for the following operations:

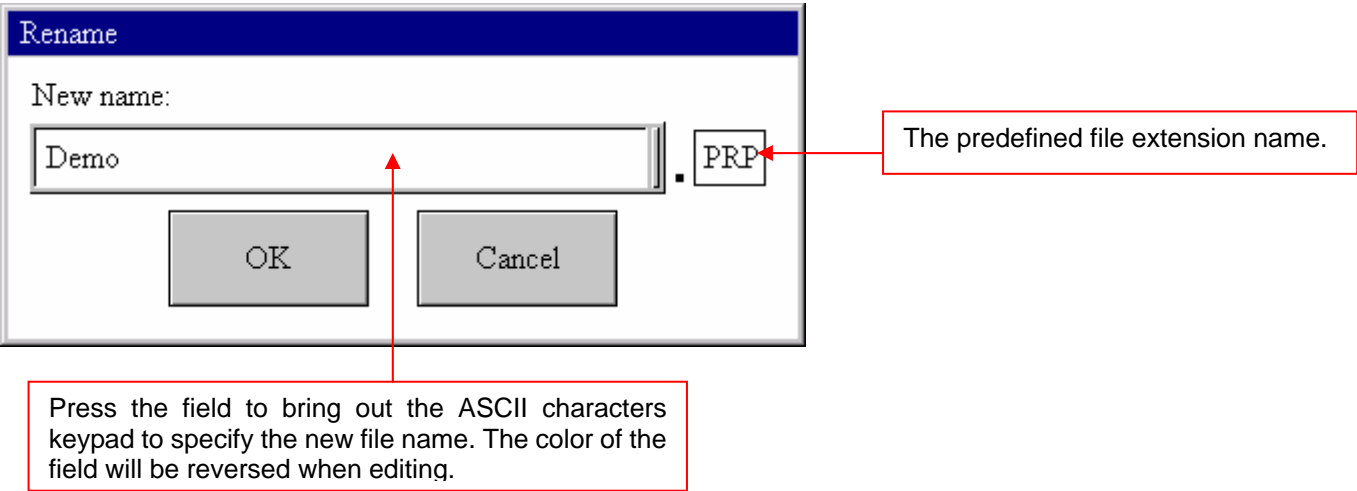
No.	Operations	No.	Operations
1	Select a file to update the OS & AP	15	Read recipe data from TXT file
2	Select a file and run the OS & AP in it	16	Read recipe data from DAT file
3	Select a file to read data	17	Write OS and AP to file
4	Select a file to write data	18	Print screen to file (256 colors)
5	Select a file to append data	19	Print screen to file (64K colors)
6	Select a file to delete	20	Write logged data to .LDF file
7	Select a file to rename	21	Read logged data from .LDF file
8	Write recipe data to TXT file	22	Write line chart data to file
9	Write recipe data to DAT file	23	Read line chart data from file
10	Write logged data to file	24	Write scatter chart data to file
11	Write logged alarms to file	25	Read scatter chart data from file
12	Write alarm counts to file	26	Select a file to copy
13	Write logged operations to file	27	Read logged data file from file
14	Write panel data to file		

The following is an example of the Select File screen.



18.1.6. Rename

The Rename screen is only for panels that support file operations. It allows the user to rename a file in the system.



18.2. Panel Setup

After power is applied, the target panel displays the Panel Setup screen. The following is an example of a Panel Setup screen:



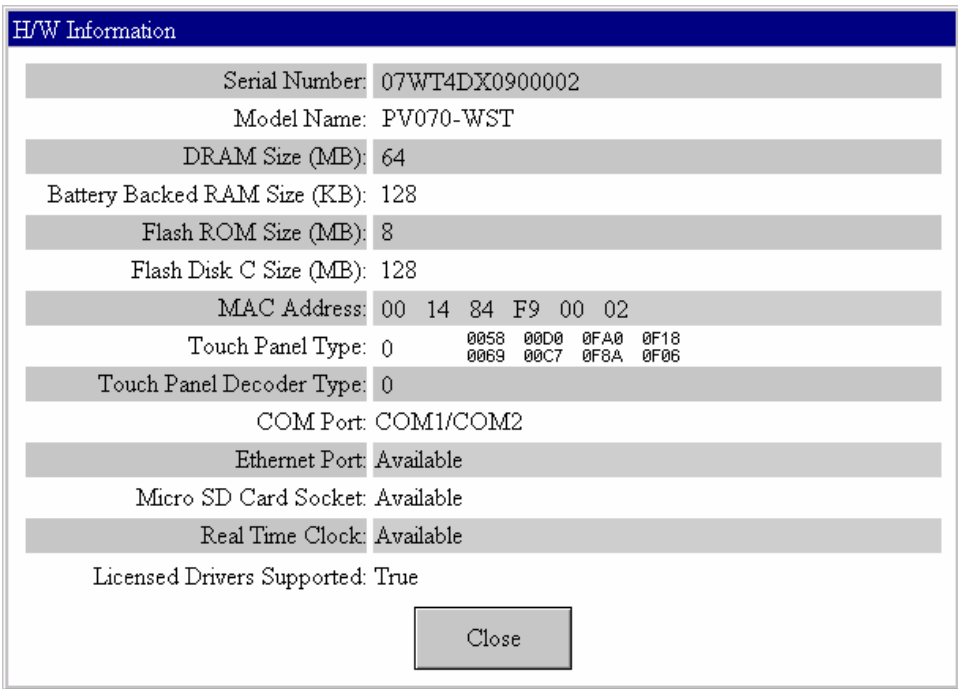
Note: Some of the buttons on the Panel Setup screen appear only when they are needed.

Note: After powering up, the target panel will not display the Panel Setup screen if “Run AP After Power On” in General Settings is True. If it is False, the target panel will run the application directly.

The following table describes the function of each button on the Panel Setup screen of the target panel.

Property	Press the button to
English/中文(繁體)/中文(简体)	Display the texts of the screen in the corresponding language.
General	Set the contrast and brightness of the display. Please see Section 18.2.2 for details.
Touch Panel	Calibrate the touch panel. Please see Section 18.2.3 for details.
Set Time/Date	Set the date and time on the Real Time Clock Chip. Please see Section 18.2.4 for details.

Continued

Property	Press the button to
H/W Information	<p>Display the hardware information of the target panel. The following is an example of the hardware information screen</p>  <p>The screenshot shows a window titled 'H/W Information' with the following details:</p> <ul style="list-style-type: none"> Serial Number: 07WT4DX0900002 Model Name: PV070-WST DRAM Size (MB): 64 Battery Backed RAM Size (KB): 128 Flash ROM Size (MB): 8 Flash Disk C Size (MB): 128 MAC Address: 00 14 84 F9 00 02 Touch Panel Type: 0 (with hex values: 0058 00D0 0FA0 0F18 0069 00C7 0F8A 0F06) Touch Panel Decoder Type: 0 COM Port: COM1/COM2 Ethernet Port: Available Micro SD Card Socket: Available Real Time Clock: Available Licensed Drivers Supported: True <p>A 'Close' button is located at the bottom right of the window.</p>
Link 1 - Link 4	Set the parameters for communication between the target panel and PLC/Controllers. Please see Section 18.2.5 or Section 18.2.6 for details.
LAN Printer Address	Specify the IP address of the network printer. Please see Section 18.2.7 for details.
Copy AP to HMI	Copy the application to another HMI.
Copy AP to File	Save the system programs and the application runtime data to a PRP file. The file can be used by the software and compatible target panels.
Copy File	Copy the file.
Format Disk C	Format the built-in flash disk (C:). This operation requires a user level of 8 or higher.
FTP Site	Assign the user name and the permission of the file operations for the target panel as a FTP site. Please see Section 18.2.8 for details.
Boot from File	Load-and-run the system programs and the application runtime data from a PRP file. The original system programs and runtime data are intact. The loaded system programs and the runtime data will be lost after power off.
Update from File	Update the system programs and the application runtime data from a PRP file. The original system programs and the application runtime data are replaced by the new ones.
Clear Recorded Data	Clear the data stored in the battery backed RAM, which include the operation history, alarm history, alarm counts, and the data collected by data loggers. This operation requires a user level of 7 or higher.
Run	Start running the application. If login is required, the operator must enter a valid password of any user level before the target panel displays the first screen. The user level of the password you enter becomes the current user level. Any operation that requires a user level higher than the current user level will not work while the application is running.

18.2.1. Entering Panel Setup Mode

Sometimes, you need to put the target panel into the Panel Setup Mode in order to set it up. These are the steps for you to enter the Panel Setup Mode when an application is running:

Step 1:

Pin-point the upper-left corner of the screen. If successful, there will be a square blinking once on the corner.

Step 2:

Pin-point the upper-right corner of the screen. If successful, there will be a square blinking once on the corner.

Step 3:

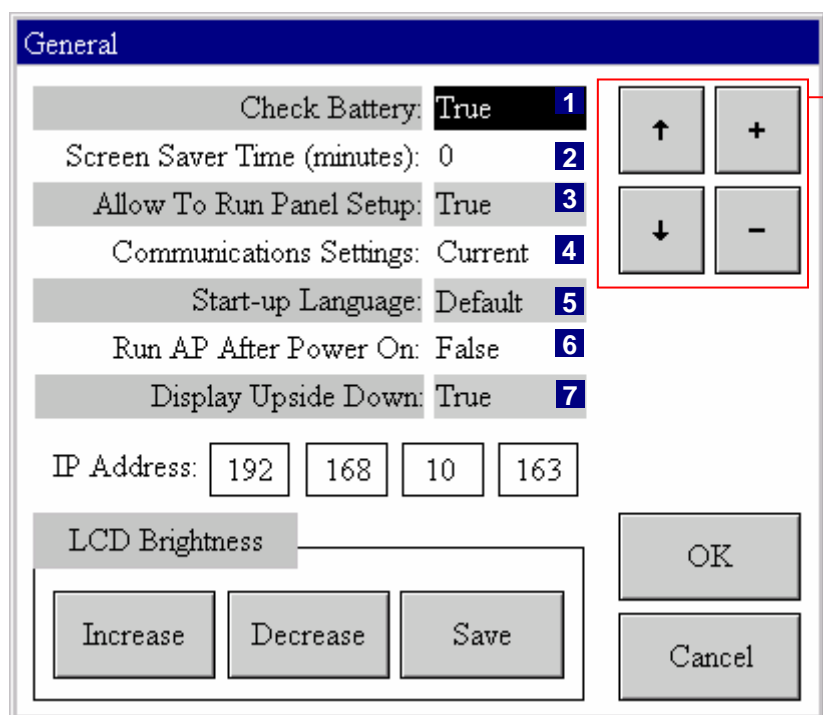
Pin-point the upper-left corner of the screen. If successful, there will be a square blinking once on the corner.





Only after pin-pointing the left-right-left corners of the screen successfully, will you be able to get the target panel into the Panel Setup Mode.

Note: If the above procedure does not work, you need to check to see whether the Allow to Run Panel Setup flag under the General Settings screen is True. If it is False, the target panel will not be allowed to run panel setup.

18.2.2. General Settings

You may press the General button on the Panel Setup screen to bring up the General screen. The following is an example of the General screen:



Item	Press the button to
	Move the selection in a 7-6-5-4-3-2-1-7 sequence. The current data entry object is highlighted.
	Move the selection in a 1-2-3-4-5-6-7-1 sequence. The current data entry object is highlighted.
	Adjust the selection or increase the value of the current data entry object.
	Adjust the selection or decrease the value of the current data entry object.

The following table describes each property on the General screen.

Property	Description
Check Battery	Select True if you want the panel to check the battery before running the application. If the battery check failed, the "Battery backed RAM data error! All recorded data are cleared!" error message will be displayed on the screen. The default setting is True.
Screen Saver Time(minutes)	Enter a number between 0 and 60 to specify the time that the panel turns off the back light of the display when the panel has not been touched for the specified amount of time. The unit of time is minutes. This option lengthens the life of the CCFT back light. If you set "Screen saver time" to 0, the panel never turns off the back light.
Allow To Run Panel Setup	Select True if you want to exit the running application and enter the panel setup mode.

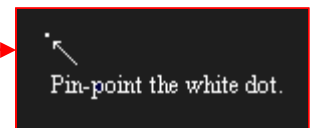
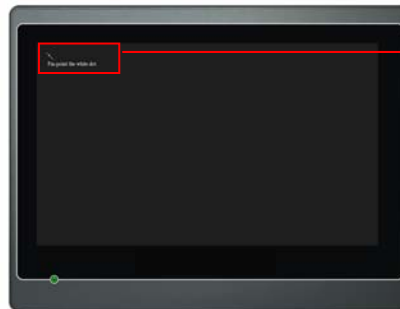
Continued

Property		Description
Communications Settings		When downloading an application, select Default to use the same communication parameters as those used when transmitting data. Select Current to use the communication parameters set in the target panel. To set up communication parameters, press the Link button on the Panel Setup screen. Please see Section 18.2.5 or Section 18.2.6 for details.
Start-up Language		When downloading an application, select Default to use the same start-up language as what is used when transmitting data, or select 1 to 10 as the start-up language.
Run AP After Power On		Select True if you want to run the application immediately after powering on. The default setting is False.
Display Upside Down		Select True if you want to display the screen upside down. The default setting is False.
IP Address		Press the edit field and bring up the Numeric keypad to input the IP address. Each IP byte can be a value between 0 and 255.
LCD Brightness	Increase	Click it to increase the LCD brightness.
	Decrease	Click it to decrease the LCD brightness.
	Save	Click it to save the current setting of the LCD brightness.
OK		Click it to close the dialog box and accept all changes.
Cancel		Click it to close the dialog box and discard all changes.

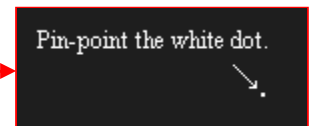
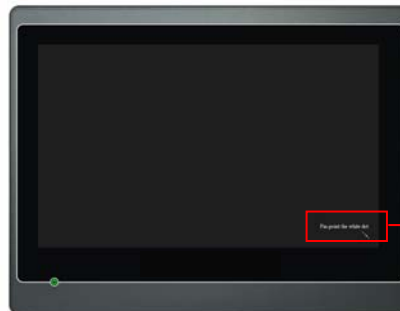
18.2.3. Calibrating the Touch Panel

To calibrate the touch panel, you can press Touch Panel button on the Panel Setup screen. Use the following procedure to pin-point the white dots and ok buttons on the screen with an unsharp pencil.

1. Pin-point the white dot on the upper-left corner of the screen.

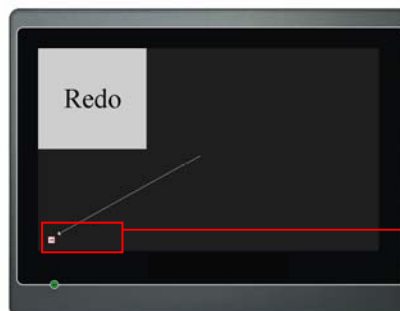


2. Pin-point the white dot on the lower-right corner of the screen.



3. You can press the Redo button on the upper-left corner of the screen to go back to step 1.

Alternatively, pin-point the ok button on the lower-left corner of the screen to go to the next step.



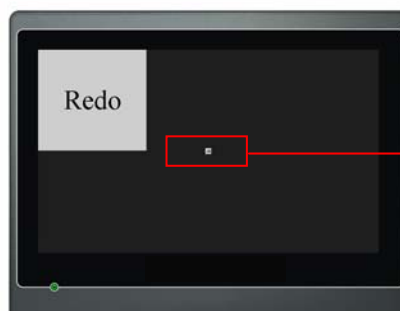
4. You can press the Redo button on the upper-left corner of the screen to go back to step 1.

Alternatively, pin-point the ok button on the upper-right corner of the screen to go to the next step.



5. You can press the Redo button on the upper-left corner of the screen to go back to step 1.

Alternatively, pin-point the ok button at the center of the screen to complete the calibration.



After calibration is completed, the Panel Setup screen displays again.

Note: Do not use anything that is made of metal or is sharp, such as a screw driver or a ball-point pen on the touch panel.

18.2.4. Time and Date Settings

You may press the Set Time/Date button on the Panel Setup screen to bring up the Set Time and Date screen. The following is an example of the Set Time and Date screen.

Set Time and Date

Current Time (hh:mm:ss): 14:50:20

Current Date (yy/mm/dd): 09/12/28

Current Day of Week: Mon

Hour: 14

1

Minute: 47

2

Second: 59

3

Year: 9

4

Month: 12

5

Day: 28

6

Day of Week: Mon

7

RTC Adjustment (sec./day): 0.00

8

↑

↓

+

-

Set

Set & Exit

Cancel

Item	Press the button to
<div>↑</div>	Move the selection in a 8-7-6-5-4-3-2-1-8 sequence. The current data entry object is highlighted.
<div>↓</div>	Move the selection in a 1-2-3-4-5-6-7-8-1 sequence. The current data entry object is highlighted.
<div>+</div>	Adjust the selection or increase the value of the current data entry object.
<div>-</div>	Adjust the selection or decrease the value of the current data entry object.

The following table describes each property on the General screen.

Property	Description
Current Time (hh:m:ss)	Displays the current time in the Real Time Clock chip.
Current Date (yy/mm/dd)	Displays the current date in the Real Time Clock chip.
Current Day of Week	Displays the current day of week in the Real Time Clock chip.
Hour	Select an integer value from 0 through 23 representing the hour of the day.
Minute	Select an integer value from 0 through 59 representing the minute.
Second	Select an integer value from 0 through 59 representing the second.
Year	Select an integer value from 0 through 99 representing the year.
Month	Select an integer value from 1 through 12 representing the month of the year.
Day	Select an integer value from 1 through 31 representing the day of the month.
Day of Week	Select Mon, Tue, Wed, Thu, Fri, Sat or Sun representing the day of the week.
RTC Adjustment (sec./day)	Set the adjustment in seconds per day to correct the Real Time Clock (RTC).
Set	Save all the changes you made
Set & Exit	Click it to close the dialog box and accept all changes.
Cancel	Click it to close the dialog box and discard all changes.

18.2.5. Link Settings (Serial Port)

This section describes how to set up the communication parameters for the serial communication links using the link screen in the target panel. The default setting of the link screen is transmitted to the target panel along with all the other data when you download an application.

You can press the corresponding Link button on the Panel Setup screen to bring out the link screen. If the link is a serial link, the target panel will display the serial port parameters screen. The following is an example:

Link 2

Simatic S7-300 (MPI Port)

Communications: True 1

Port: COM 1 2

Baud Rate: 9600 3

Data Bits: 7 bits 4

Parity: Even 5

Stop Bit: 1 bit 6

Command Delay: 0 7

Retry Times: 0 8

Timeout Time: 0 9

Panel Address: 1 10

PLC Address: 1

OK

Cancel

Displays the connected device of this link.

Item	Press the button to
↑	Move the selection in a 10-9-8-7-6-5-4-3-2-1-10 sequence. The current data entry object is highlighted.
↓	Move the selection in a 1-2-3-4-5-6-7-8-9-10-1 sequence. The current data entry object is highlighted.
+	Adjust the selection or increase the value of the current data entry object.
-	Adjust the selection or decrease the value of the current data entry object.

The screen for a serial link appears with the following options:

Property	Description
Communications	Select False if you want to disable the communication between the target panel and the controller. When communication is disabled, the target panel doesn't communication with the controller but can still display screens.
Port	Select either COM1 or COM2 or COM3 to specify the serial port of the target panel that is connected to the controller. The default setting is COM2.
Baud Rate	The baud rate used.
Data Bits	The number of data bits used.
Parity	The scheme of parity used.
Stop Bits	The number of stop bits used.
Command Delay	If the Command Delay is 0, the communication driver sends the next request immediately to the connected device after it received the reply of the last request. If the Command Delay is nonzero, the communication driver delays for the specified amount of time before sending the next request to the connected device.
Retry Count	The number of times that the communication driver will retry to get a successful reply from the connected device for each request. If the number is zero, the communication driver will use a default retry count.
Timeout Time	The maximum time allowed for the communication driver to wait for the reply from the connected device. When the elapsed time exceeds the Timeout Time, the communication driver assumes that the communication failed.
Panel Address	The address of the target panel.
PLC Address	The address of the connected device.

18.2.6. Link Settings (Ethernet Port)

This section describes how to set up the communication parameters for the Ethernet communication links using the link screen of the target panel. The default setting of the link screen is transmitted to the target panel along with other data when you download an application.

You can press the corresponding Link button on the Panel Setup screen to bring out the link screen. If the link is an Ethernet link, the target panel will display the Ethernet parameters screen. The following is an example:

Link 1

Modbus Device/Slave(TCP/IP)

Communications: True 1

Command Delay: 0 2

Retry Times: 0 3

Timeout Time: 0 4

Port: 502

IP Address: 192 168 10 99

OK

Cancel

Displays the connected device of this link.

↑

+

↓

-

Item	Press the button to
↑	Move the selection in a 4-3-2-1-4 sequence. The current data entry object is highlighted.
↓	Move the selection in a 1-2-3-4-1 sequence. The current data entry object is highlighted.
+	Adjust the selection or increase the value of the current data entry object.
-	Adjust the selection or decrease the value of the current data entry object.

The screen for an Ethernet link appears with the following options:

Property	Description
Communications	Select False if you want to disable the communication between the target panel and the controller. When communication is disabled, the target panel doesn't communication with the controller but can still display screens.
Command Delay	If the Command Delay is 0, the communication driver immediately sends the next request to the connected device after it received a reply from the last request. If the Command Delay is nonzero, the communication driver delays for a specified amount time before sending the next request to the connected device.
Retry Count	The number of times that the communication driver will retry to get a successful reply from the connected device for each request. If the number is zero, the communication driver will use a default retry count.
Timeout Time	The maximum time allowed for the communication driver to wait for a reply from the connected device. When the elapsed time exceeds the Timeout Time, the communication driver assumes that the communication failed.
Port	Displays the IP port for use
IP Address	Specify the IP address of the connected device. You can press the corresponding field to bring out the Decimal Numeric Keypad to input numbers.
OK	Click it to close the dialog box and accept all changes.
Cancel	Click it to close the dialog box and discard all changes.

18.2.7. LAN Printer Address

To use a LAN printer, you need to assign an IP address and a port for the printer on the target panel. You can press the LAN Printer Address button on the Panel Setup screen to bring out the screen. The following is an example:

LAN Printer Address

IP Address: 140 132 164 72

Port: 20660

OK Cancel

The LAN Printer Address screen appears with the following options:

Property	Description
IP Address	Specifies the IP address of the connected network printer. You can press the corresponding field to bring out the Decimal Numeric Keypad to input an integer value from 0 to 255.
Port	Specifies the used IP port. You can press the corresponding field to bring out the Decimal Numeric Keypad to input an integer value from 0 to 65535.
OK	Click it to close the dialog box and accept all changes.
Cancel	Click it to close the dialog box and discard all changes.

18.2.8. FTP Site

To access files in the target panel from a remote site you need to do the following:

- 1) Open Internet Explorer (or any other web browser) and enter the site address. You will need to type ftp:// and then the IP address of the target panel. For example, you can type it as <ftp://192.168.10.163>. To set the IP address of the target panel, please see [Section 18.2.2](#) for details.
- 2) The target panel (FTP site) requires a user name and password to login.
If the target panel has an application, the user needs to enter a password defined in that application with sufficient user level to enter the FTP site for reading/writing files.
Note: A user that can write files is able to read files too.

If the target panel has no application, the user can remote access the FTP site by using the default password “123”.

After you have successfully logged on to the target panel (FTP site), you will see the available files that you have permission to access. It will look very similar to your Windows Explorer or My Computer view. From there, you can read and write files from your local hard drive to the target panel (FTP site) and vice versa. Keep in mind that you will need to have the appropriate permission to perform file operations. These permissions will be assigned to the user account in the target panel (FTP site).

To assign a user name and read/write permissions for the target panel (FTP site), you can press the FTP Site button on the Panel Setup screen to bring out the following sample screen:

FTP Site

User Name:

user

User Level for Write Operation:

0

User Level for Read Operation:

0

OK

Cancel

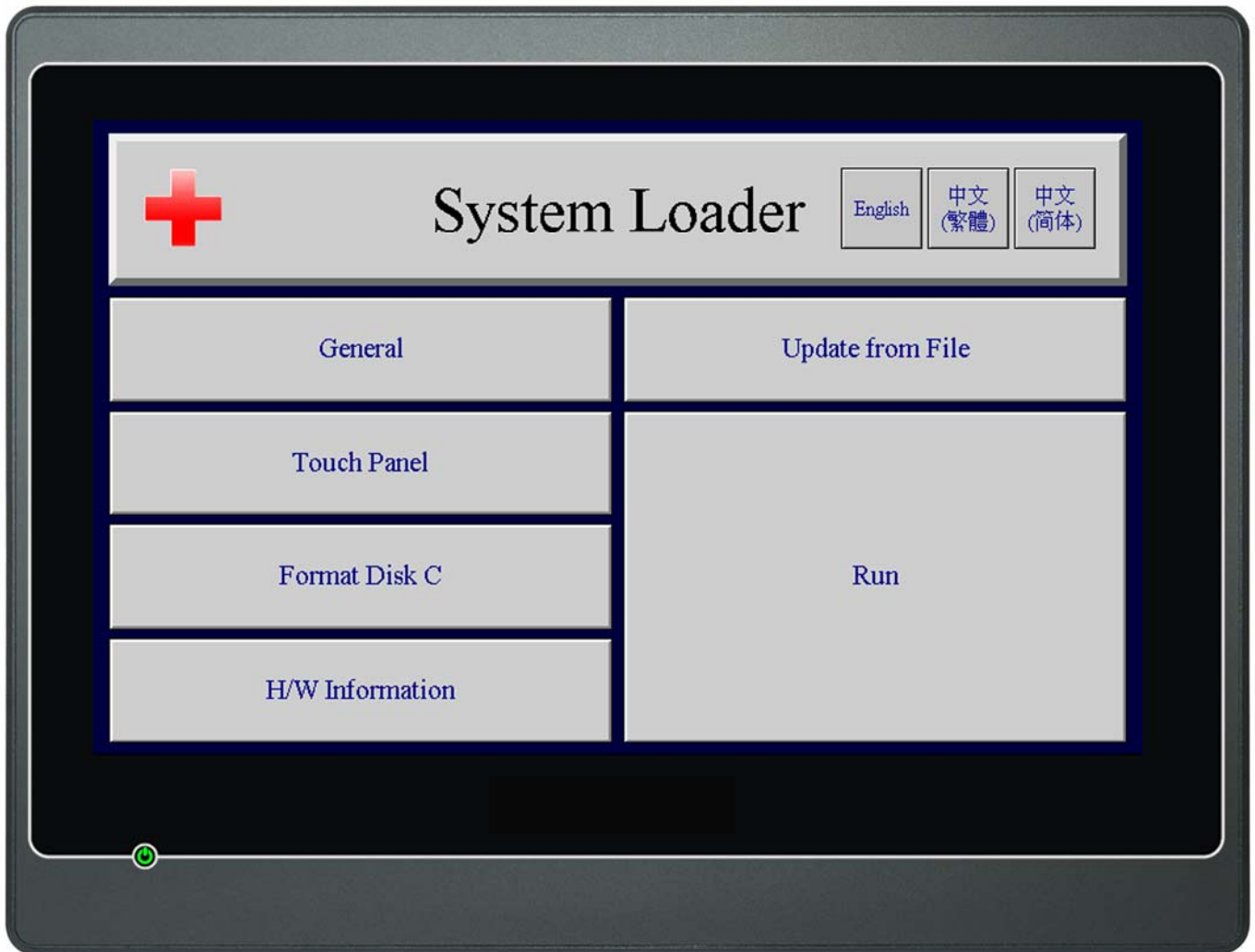
The FTP Site screen appears with the following options:

Property	Description
User Name	Specifies the user name for the target panel. You can press the field to bring up the ASCII Character Keypad to input up to 8 ASCII characters. The default user name is “user”.
User Level for Write Operation	Specifies the user level that is required to write files to the target panel.
User Level for Read Operation	Specifies the user level that is required to read files from the FTP site.
OK	Click it to close the dialog box and accept all changes.
Cancel	Click it to close the dialog box and discard all changes.

18.3. Recovering System by System Loader

When there is a system-critical problem that interferes with the normal operation of the target panel, users may need to boot into the system loader mode, which allows them to troubleshoot their target panel or update the application. Once you have corrected the problem, you can reboot and the target panel will run normally.

To get the target panel into the system loader mode, press the upper-left corner for 3 seconds while the power is on, once there is a beeping sound, the System Loader screen will be displayed as shown below:



The following table describes the function of each button on the System Loader screen of the target panel.

Property	Press the button to																			
English/中文(繁體)/中文(简体)	Display the texts of the screen in the corresponding language.																			
General	<p>Set the IP address and brightness of the display. The following is an example of the General screen.</p> <div><p>General</p><p>IP Address: 192 168 10 163</p><p>LCD Brightness</p><p>Increase Decrease Save</p><p>OK</p><p>Cancel</p></div> <p>The following table describes each property in the General screen.</p> <table><tr><th colspan="2">Property</th><th>Description</th></tr><tr><td colspan="2">IP Address</td><td>Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.</td></tr><tr><td rowspan="3">LCD Brightness</td><td>Increase</td><td>Click it to increase the LCD brightness.</td></tr><tr><td>Decrease</td><td>Click it to decrease the LCD brightness.</td></tr><tr><td>Save</td><td>Click it to save the current setting of the LCD brightness.</td></tr><tr><td colspan="2">OK</td><td>Click it to close the dialog box and accept all changes.</td></tr><tr><td colspan="2">Cancel</td><td>Click it to close the dialog box and discard all changes.</td></tr></table>	Property		Description	IP Address		Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.	LCD Brightness	Increase	Click it to increase the LCD brightness.	Decrease	Click it to decrease the LCD brightness.	Save	Click it to save the current setting of the LCD brightness.	OK		Click it to close the dialog box and accept all changes.	Cancel		Click it to close the dialog box and discard all changes.
Property		Description																		
IP Address		Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.																		
LCD Brightness	Increase	Click it to increase the LCD brightness.																		
	Decrease	Click it to decrease the LCD brightness.																		
	Save	Click it to save the current setting of the LCD brightness.																		
OK		Click it to close the dialog box and accept all changes.																		
Cancel		Click it to close the dialog box and discard all changes.																		
Touch Panel	Calibrate the touch panel. Please see Section 18.2.3 for details.																			
Format Disk C	Format the built-in flash disk (C:). This operation requires a user level of 8 or higher.																			
H/W Information	<p>Display the hardware information of the target panel. The following is an example of the hardware information screen:</p> <div><p>H/W Information</p><p>Serial Number: 07WT4DX0900002</p><p>Model Name: PV070-WST</p><p>DRAM Size (MB): 64</p><p>Battery Backed RAM Size (KB): 128</p><p>Flash ROM Size (MB): 8</p><p>Flash Disk C Size (MB): 128</p><p>MAC Address: 00 14 84 F9 00 02</p><p>Touch Panel Type: 0 0058 00D0 0FA0 0F18 0069 00C7 0F8A 0F06</p><p>Touch Panel Decoder Type: 0</p><p>COM Port: COM1/COM2</p><p>Ethernet Port: Available</p><p>Micro SD Card Socket: Available</p><p>Real Time Clock: Available</p><p>Licensed Drivers Supported: True</p><p>Close</p></div>																			
Update from File	Update the system programs and the application runtime data from a PRP file. The original system programs and the application runtime data are replaced by the new ones.																			
Run	Get into the Panel Setup mode.																			