608

ALIBUS Series intelligent lighting 3.5-inch touch screen

Installation instruction manual V1.0

Jiangsu Acrel Electric MFG. Co., Ltd

Declare

All rights reserved, without the written permission of the company, any paragraphs and chapters in this manual shall not be extracted, copied, or spread in any form, otherwise all the consequences shall be borne by the violators.

The company reserves all legal rights.

The company reserves the right to modifications to the product specifications described in this manual without notice. Before ordering, please consult the local agent for the new specifications of this product.

Contents

1. Summary.....1

2. Product model.....1

3. Main technical parameters.....1

4. Installation and wiring.....2

4.1 Outline and installation dimensions (in mm).....2

4.2 Installation method.....2

4.3 Electrical wiring diagram.....2

5. How-to usage guide.....3

5.1 Product characteristics.....3

5.2 Touch screen main page.....3

5.3 Touch screen settings page.....4

5.4 Touch-screen function page.....5

5.4.1 Switch function.....5

5.4.2 dimming function.....6

5.4.3 Scene function.....7

5.4.4 Sensor enabling.....8

5.5 Customize the timing page.....8

6. Functional application.....10

6.1Heartbeat message.....10

6.2Interactive Settings.....10

6.3Time setting.....10

6.4 Page settings.....10

7. Common fault analysis.....11

8. Matters needing attention.....11

1. Summary

ALIBUS series intelligent lighting 3.5-inch touch screen (hereinafter referred to as touch screen) is the control module of ALIBUS intelligent lighting control system, using a 3.5-inch colorful TFT, a 320x240 resolution, and a capacitive touch screen design, with the function of time display, temperature display, secret protection, electronic photo album screen saver and clock screen. Touch screen and other devices (such as switch drivers, smart panels, sensors, etc.) are connected together to form a complete set of lighting control system, to realize the intelligent management of the lighting system in large public buildings.

Touch screen adopts advanced microcontroller technology, which is an intelligent control module with high stability and high reliability. The touch screen has a built-in temperature sensor, which can display the field temperature in real time. After the touch screen is connected to the ALIBUS intelligent lighting control system, it provides power supply and system communication for the touch screen through the Cat6e shielding network cable, realizing a variety of control functions, such as switch control, dimming control, sensor enabling control, scene control, customize timing function, etc.

2. Product model

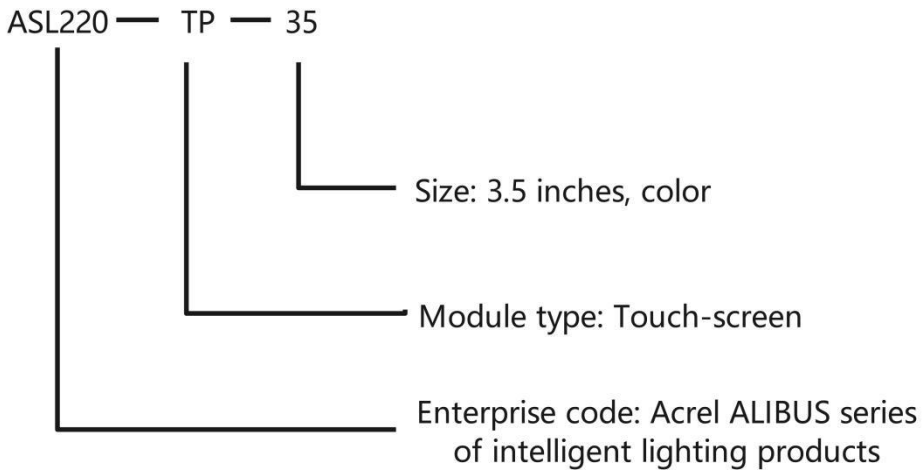


Table 1: Product Specification Table

Product model	Functional description
ASL220-TP-35	Switch control, dimming control, sensor enabling control, scene control, customize timing function

3. Main technical parameters

Table 2: Technical parameters table

Item		Index
Power supply characteristics	current supply	ALIBUS bus or auxiliary power supply: DC24V
	Bus current	<70mA
	Bus power consumption	<1700mW
Resolution		320*240
Operating environment		Operating temperature: -5℃ ~+ 45℃; relative humidity: 95% without condensation
Storage temperature range		-25℃~+55℃
Shell protection grade		IP20
Installation		Standard 86-box installation
External connection		Cat6e shielding network cable

4. Installation and wiring

4.1 Outline and installation dimensions (in mm)

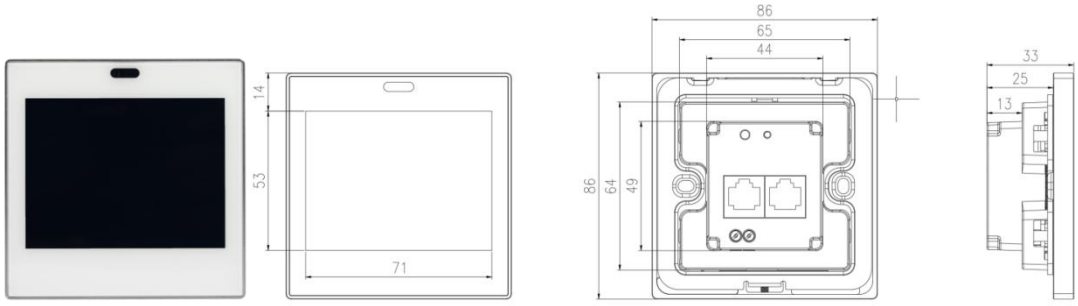


Figure 1 Appearance and installation dimensions of ASL220-TP-35

4.2 Installation method

The touch screen is suitable for an 86-box installation.

4.3 Electrical wiring diagram

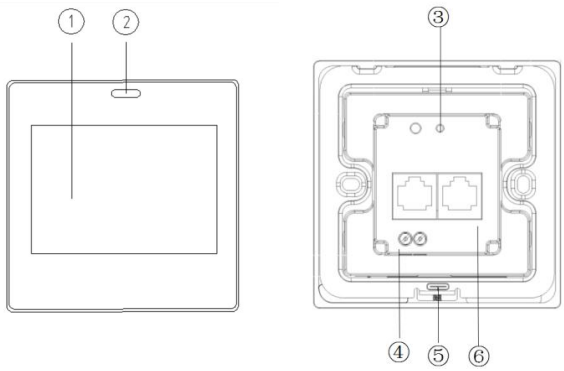


Figure 2 ASL220-TP-35 wiring diagram

The figure above shows the wiring diagram of the touch screen. The touch screen wiring diagram is now illustrated.

① Touch screen operation display area

② Human body sensing sensor

When the touch screen detects that the human body is close, the screen automatically lights up for the user to operate.

③ Run the indicator light

During normal operation, the indicator light is green and flashes at 1s.

④ The DC24V interface

DC24V is required for power supply.

⑤ USB interface

Use this USB interface for touch-screen swiping programs.

⑥ ALIBUS communication interface

The touch screen has two ALIBUS communication interfaces. Adopt standard RJ 45 interface, can access Cat6e shielded network cable, support ALIBUS protocol.

5. How-to usage guide

The general functions of the touch screen can be configured through the setting page of the screen, such as screen brightness, keynote sound, secret protection, etc. Configure the specific control functions of the touch screen through the configuration software, such as heartbeat message, interactive Settings, page settings, time settings, etc. The touch screen can realize a variety of control functions, specifically as follows:

- Switch function
- Dimming function
- Scene function
- Timed function
- Sensor enabling

5.1 Product characteristics

As a control module, the touch screen can be connected to any control module conforming to the ALIBUS protocol, and it can issue control instructions in the system to control the drive to perform the corresponding action.

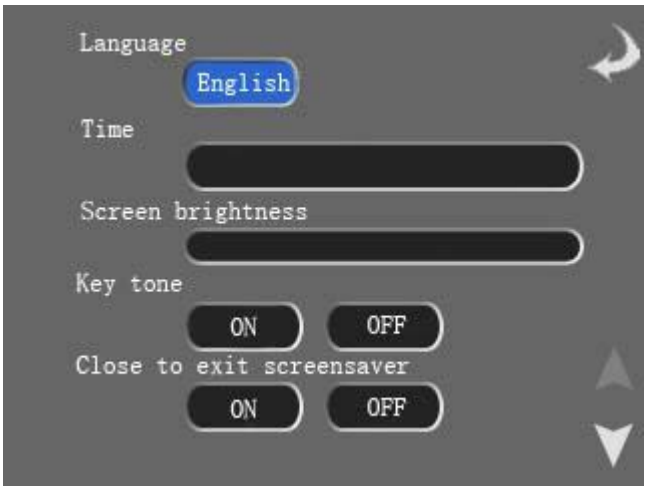
ASL220 series touch screen has a variety of functions are optional, the specific use needs to be set through the configuration software.

5.2 Touch screen main page

In the main page of the touch screen, which mainly displays the time and date, click to enter the settings page and click to enter the timing page.

5.3 Touch screen settings page

On the touch screen settings page, some general settings are available as follows:



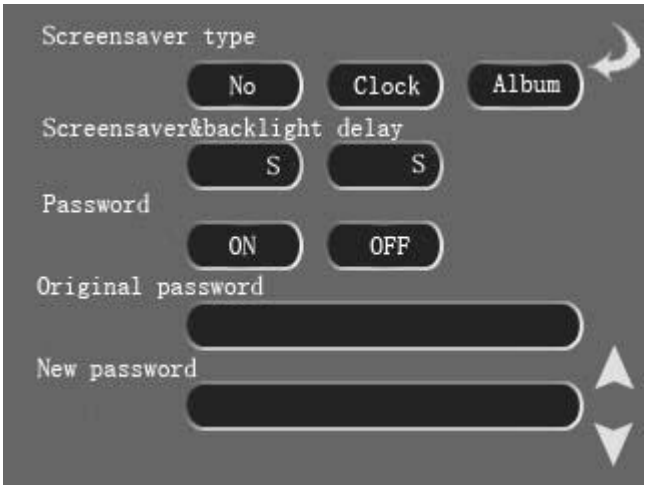
① Language: Only the English language is currently supported.

② Time: The time format is 24 hours.

③ Screen brightness: The screen brightness is adjustable.

④ Key tone: During touch screen operation, the key tone can select “on” or “off”.

⑤ Close to exit screensaver: Whether the user exits the screensaver setting after approaching.



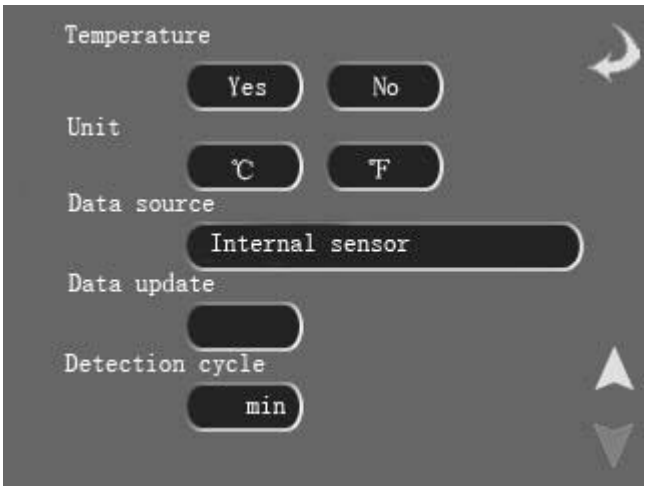
① Screensaver type: Choose a clock or album, or choose no screensaver.

② Screensaver delay: Set the time to enter the screen saver, and do not enter the screen saver state within a period of time.

③ Backlight delay: The time setting of the rest screen: In the screensaver state, the screen is completely closed after a period of operation (the rest screen).

④ Password: Whether the password is enabled.

⑤ Password modification: Change the password at the new password to change it.



① Temperature: Whether the temperature is shown.

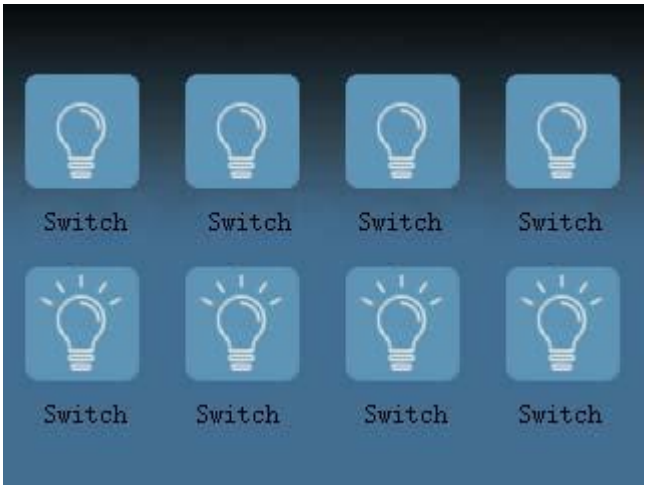
② Unit: Select either ℃ or ℉ for the display.

③ Data source: Temperature display data by default from the internal sensor.

5.4 Touch-screen function page

Slide the left on the touch screen home page to enter the touch screen function page.

5.4.1 Switch function



Panel control:

Click the touch screen icon, when the icon switch to , the corresponding switch is closed.

Click the touch screen icon, when the icon switch to , the corresponding switch is opened.

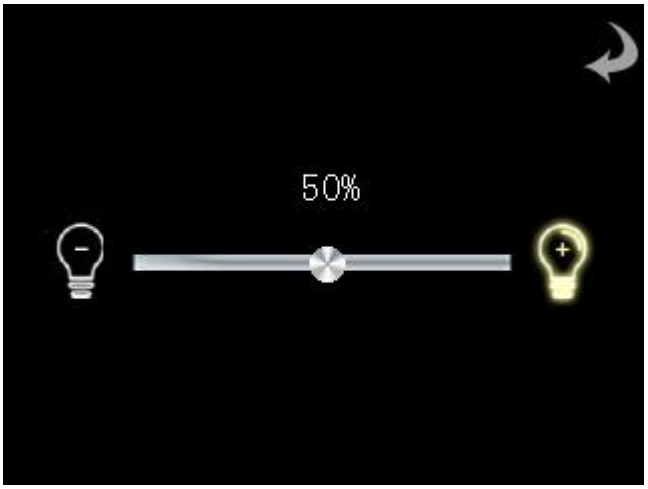
State feedback:

The illuminated state of the switch icon is used to feedback the state of the actual switch.

5.4.2 Dimming function

Panel control:

Click the “dimming” icon to enter this dimming page (see the figure below). On this page, perform the dimming control.



1) Click the icon to increase the brightness by 10%.

2) Click the icon to reduce the brightness by 10%.

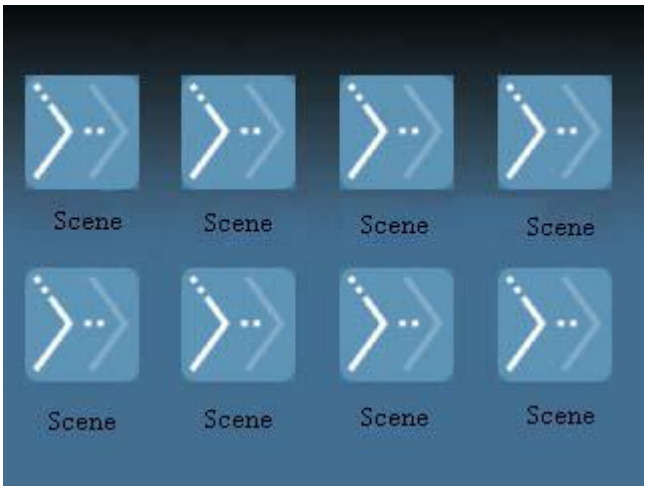
3) Slide the slip , set the brightness value, make continuous dimming, and the brightness will be displayed above the slip.

4) Click the icon to return to the function page.

State feedback:

The glow of the dimming icon is used to feedback the state of the actual switch.

5.4.3 Scene function



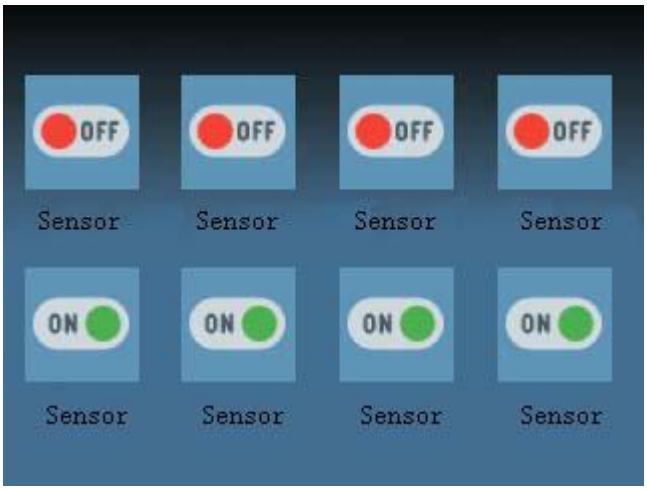
Panel control:

Each icon corresponds to a scene number. Click on the touch screen “Scene” icon to enable the scene number.

State feedback:

The icon indicates enabling the scene number.

5.4.4 Sensor enabling



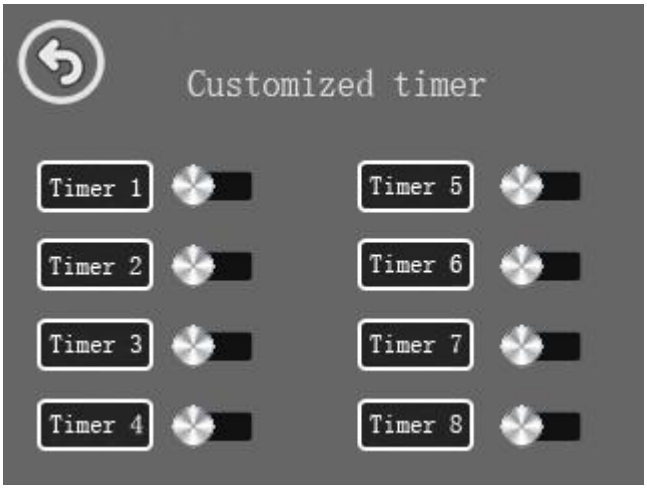
Panel control:

Click the touch screen icon , the icon switch to , open the corresponding sensor.

Click the touch screen icon , the icon switch to , close the corresponding sensor.

5.5 Customize the timing page

On the custom timer page, the user can set the timing task independently. The specific settings are set up as follows:

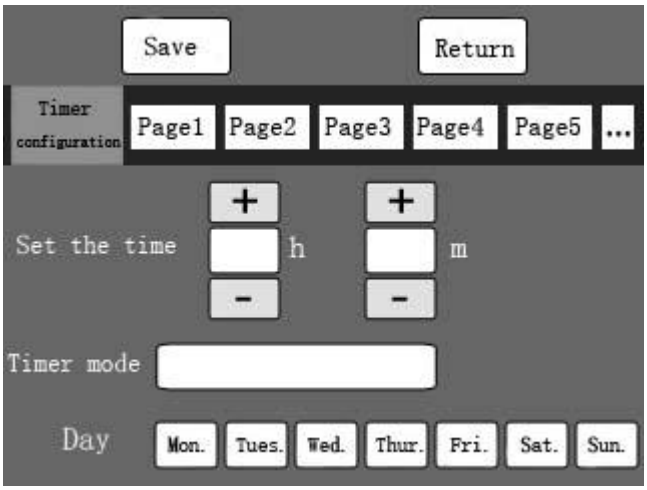


① Click the icon : Return to the main page.

② Icon :Represents the corresponding timing function is turned off.

③ Icon :Represents the corresponding timing function is turned on.

Use the custom timer page and click the “ Timer 7 ” button to enter the timer configuration page. Set the relevant parameters for “timer 7”.



① Click the icon Return: Save the action and return to the previous page.

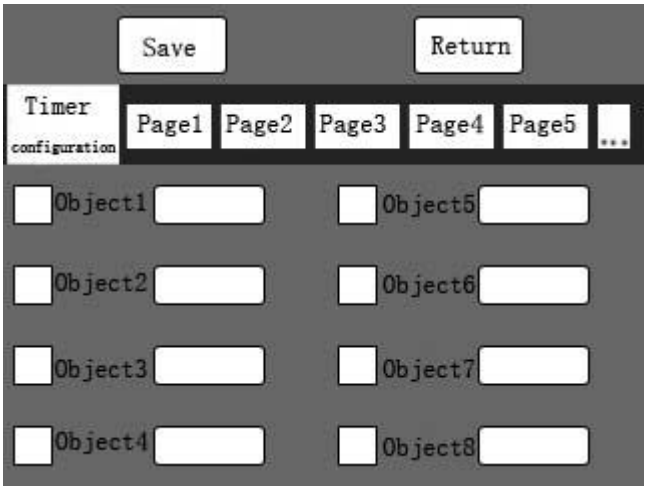
② Click the icon Page1 : Switch the page to set the object enable and send value of the first “Function Page”.

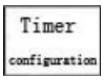
③ Click the icon ... : Click select to expand another page.

④ Set the time: Set the timing time.

⑤ Click the following icon: Mon. to Sun. to control the enabling of the seven options from Monday through Sunday. The icon is colored blue after enabling it.

Click on the icon Page1 through the timer configuration page to enter the object configuration page. Mainly sets the object enable and send values for each page. Object 1-object 8 shall correspond to the icon 1-icon 8 of the touch screen function page respectively.



① Click the icon 

: Switch to the timer configuration page.

② Click the icon : toggle individual object enable states.

③ Click the icon : Set the fixed values for the related objects on the function page. The object is dimming and can set 0-100. The objects are switch, sensor enabling, and you can set 0 and 1.

Note: After modifying the timer parameter setting, the point can be returned before saving.

6. Functional application

All functions can be set in configuration software. The parameter settings are described below.

6.1 Heartbeat message

Heartbeat messages are uploaded between 0 to 255s, and 0 is not sent

6.2 Interactive Settings

- Screen saver delay: range 5~60 in seconds
- Rest screen time: range 5~60 in seconds
- Password:The touch screen password can be changed,and the password must be 4 bit.
- Auto-read the switch status: After checking, the switch on can automatically read the switch status.

6.3 Time setting

Set year, month, day, time, minutes and seconds. Click the “System Time” button to fill the current system time.

6.4 Page settings

- Up to 10 pages can be enabled.
- Enable the page: Check the current page.
- Title: You can modify the current page title.
- Configuration: Select the number of icons for the current page.Optional: T1×1、T1×2、T1×3、T2×2、T2×3、T2×4.
- Icon: Enable the icon after checking it off
    - Title: You can modify the current icon title
    - Function: Select the switch, dimming, sensor enabled, scene function
    - Control group address: range:0~65535
    - Number: This should is set when selecting the scene function. Value range: 0~255, and 0 is disabled

7. Common fault analysis

If the touch screen operation indicator light and the screen are not bright, please check whether the wiring is loose.

8. Matters needing attention

- Before using the product, please check whether the appearance is in good condition. If there is damage, find the seller for replace in time.
- Connect the wiring correctly according to the instruction manual. Check the wiring carefully to ensure that the wiring is correct.
- Qualified installers must be asked to install this touchscreen and read the instructions carefully before installation.

Amendment record

Revised edition	Revision time	Revised terms
V1.0	2023/11	The new version was released

Headquarters:Acrel Electric MFG. Co., Ltd

Address: 253, Yalu Road, Jiading District, Shanghai

Phone:0086-21-69158338 0086-21-69156052 0086-21-59156392
0086-21-69156971

Fax:0086-21-69158303

Uniform Resource Locator :www.acrel.cn

Mailbox:ACREL001@vip.163.com

Zip code:201801

Production base :Jiangsu Acrel Electric Appliance Manufacturing Co., Ltd

Address:No.5, Dongmeng Road, Dongmeng Industrial Park, Nanzha Street, Jiangyin City, Jiangsu Province

Phone:0086-510-86179966

Fax:0086-510-86179975

Uniform Resource Locator:www.jsacrel.cn

Mailbox:sales@email.acrel.cn

Zip code:214405