HIKVISION

DS-K3Y411B(L)X Series Flap Barrier

Quick Start Guide
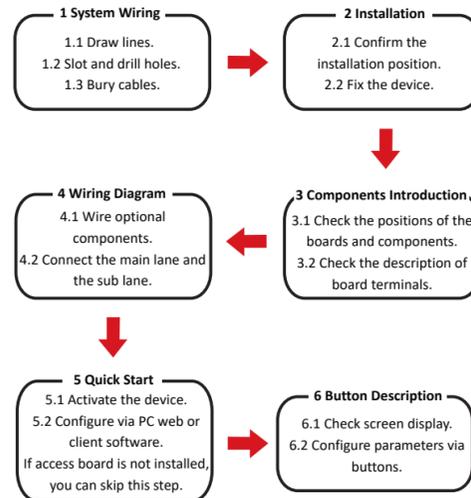
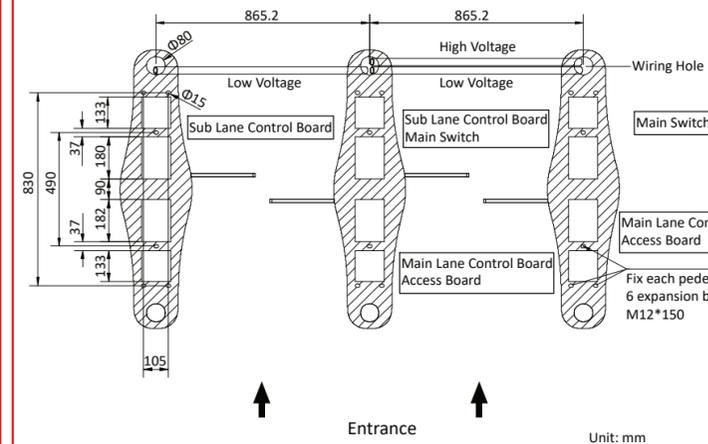UD34146B

User Manual	Wiring & Installation Video
(QR code)	(QR code)

Quick Start Flow Chart

1 System Wiring
1.1 Draw lines.
1.2 Slot and drill holes.
1.3 Bury cables.

2 Installation
2.1 Confirm the installation position.
2.2 Fix the device.

3 Components Introduction
3.1 Check the positions of the boards and components.
3.2 Check the description of board terminals.

4 Wiring Diagram
4.1 Wire optional components.
4.2 Connect the main lane and the sub lane.

5 Quick Start
5.1 Activate the device.
5.2 Configure via PC web or client software.
If access board is not installed, you can skip this step.

6 Button Description
6.1 Check screen display.
6.2 Configure parameters via buttons.

---

1 System Wiring

Steps:
1. Draw a central line on the installation surface of the left or right pedestal.
2. Draw other parallel lines for installing the other pedestals.
   ℹ The distance between the nearest two lines is 865.2 mm.
3. Slot on the installation surface and drill installation holes after determining the hole positions. Put 6 expansion bolts of M12*150 for each pedestal.
4. Bury cables.

● High voltage: AC power input
● Low voltage: interconnecting cable (communication cable and 24 V power cable) and network communication cable.
● The inner diameter of the low voltage conduit and of the high voltage (AC power cord) conduit should be larger than 30 mm. If any high-power authentication device is required to install on the left pedestal, the diameter of its conduits should be larger.
● If you want to bury both of the AC power cord and the low voltage cable, the two cables should be in separated conduits to avoid interference.
● If more peripherals are required to connect, you should increase the conduit diameter or bury another conduit for the external cables.
● The external AC power cord should be double-insulated.
● The network cable must be CAT5e or other cables with better performance.

865.2   865.2

Low Voltage   High Voltage
Low Voltage   Low Voltage   Wiring Hole
Sub Lane Control Board   Sub Lane Control Board Main Switch   Main Switch
Main Lane Control Board Access Board
Main Lane Control Board Access Board
Fix each pedestal with 6 expansion bolts of M12*150

Ø80
Ø15
830   490   133   37   182   90   180   133   37
105

Entrance

Unit: mm

---

2 Installation

Steps:
1. Prepare installation tools, check the components, and clean the installation base.
2. Align the pedestals with the pre-buried expansion bolts.
3. Remove the maintenance door with the key.
4. Secure each pedestal with expansion bolts.
5. Fix the maintenance door to its original position.

ℹ
● Make sure the device is installed on flat surface.
● Make sure the device is powered off during installation and other operations.
● The installation tools are put inside the package of the pedestal.
● In order to prevent stainless steel from rusting due to dirt during the installation, it is recommended to tear off the protective film after the device is installed.
● There may be residual glue at the film cutting position, and it is recommended to wipe the glue with WD-40 protective liquid after tearing the film.
● Do not immerse the pedestal in the water. In special circumstances, the immersed height should be no more than 100 mm.
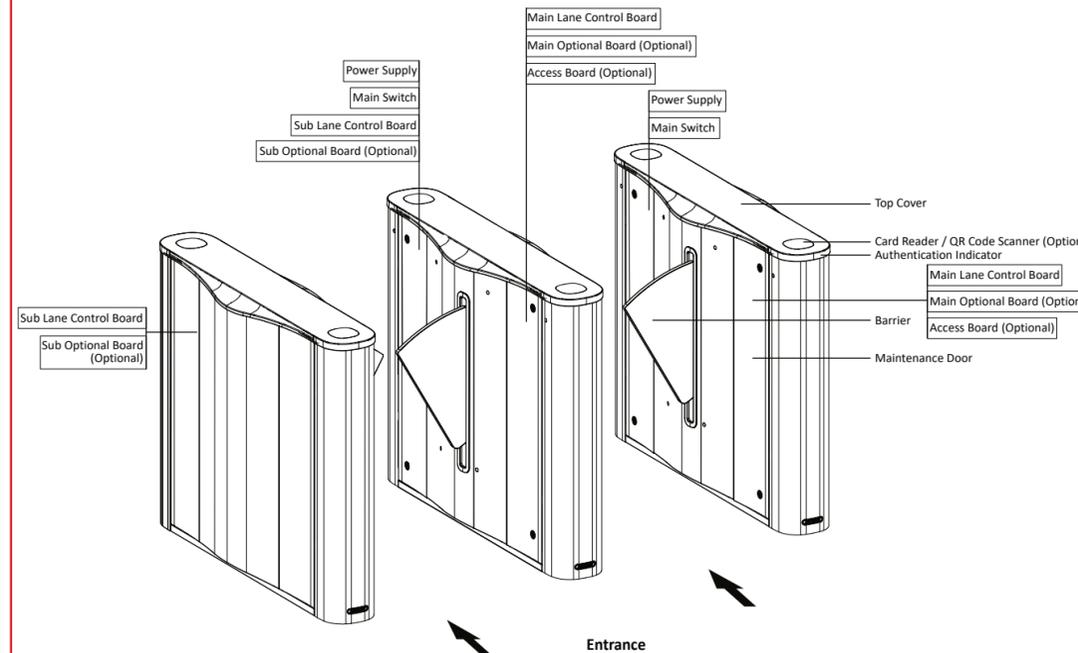
10 mm   10 mm
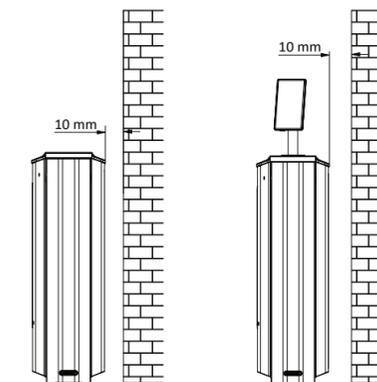
ℹ If the installation area is close to the wall, make sure the distance between the pedestal and the wall should be more than 10 mm, or you can't open the pedestal's top panel.
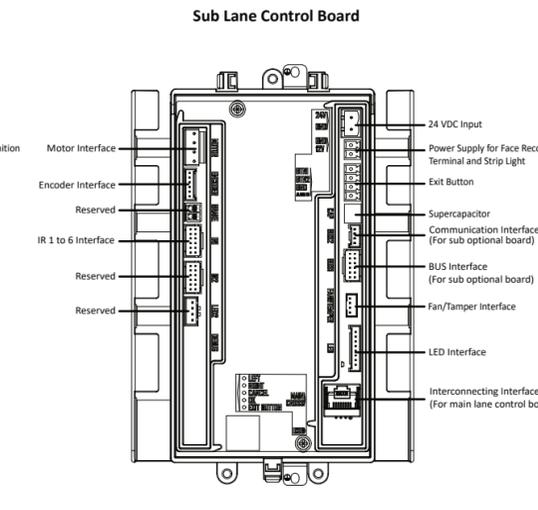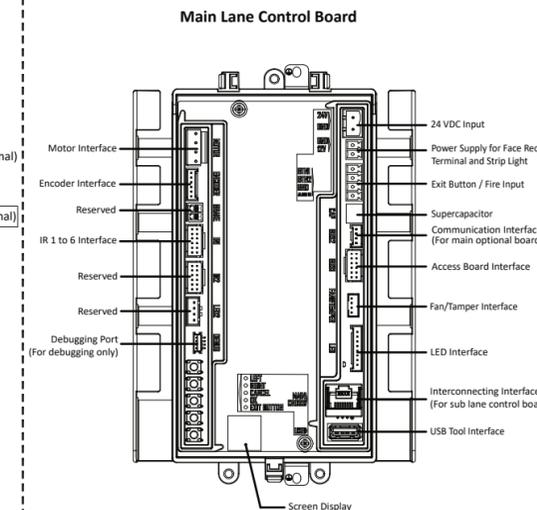
Dimensions

315   550   315   550   315
57   57
322   698   814
1206.9

Unit: mm
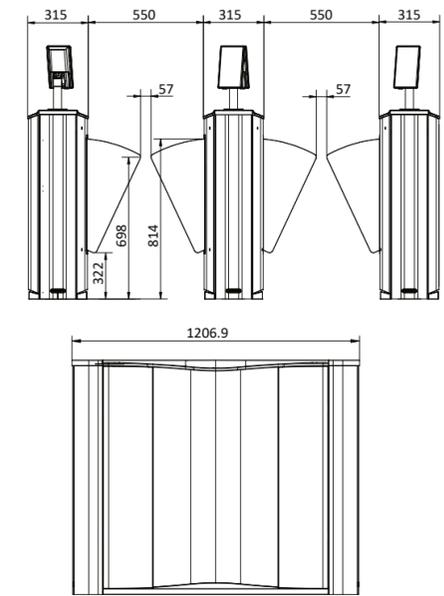
ℹ The diagram is for reference. Dimensions may differ in models.

---

3 Components Introduction

Main Lane Control Board
Main Optional Board (Optional)
Access Board (Optional)
Power Supply
Main Switch
Sub Lane Control Board
Sub Optional Board (Optional)

Power Supply
Main Switch

Top Cover
Card Reader / QR Code Scanner (Optional)
Authentication Indicator
Main Lane Control Board
Main Optional Board (Optional)
Access Board (Optional)
Barrier
Maintenance Door

Sub Lane Control Board
Sub Optional Board (Optional)

Entrance

● Lane Control Board Terminal

Main Lane Control Board

Motor Interface
Encoder Interface
Reserved
IR 1 to 6 Interface
Reserved
Reserved
Debugging Port (For debugging only)

24 VDC Input
Power Supply for Face Recognition Terminal and Strip Light
Exit Button / Fire Input
Supercapacitor
Communication Interface (For main optional board)
Access Board Interface
Fan/Tamper Interface
LED Interface
Interconnecting interface (For sub lane control board)
USB Tool Interface
Screen Display

Sub Lane Control Board

Motor Interface
Encoder Interface
Reserved
IR 1 to 6 Interface
Reserved
Reserved

24 VDC Input
Power Supply for Face Recognition Terminal and Strip Light
Exit Button
Supercapacitor
Communication Interface (For sub optional board)
BUS Interface (For sub optional board)
Fan/Tamper Interface
LED Interface
Interconnecting interface (For main lane control board)

● Access Board Terminal (Optional)

① ②
Reset Button

SOC Serial Port (For debugging only)
Reserved
Loudspeaker Interface
Reserved
Extended Interface
Reserved

CAN
Network Interface
USB Interface
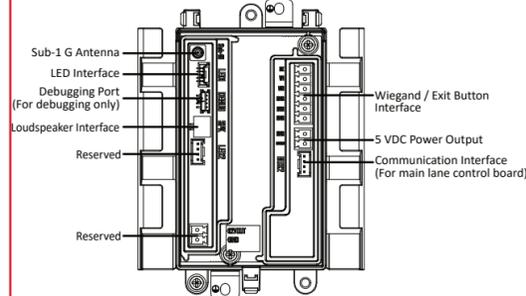DIP Switch
Main Lane Control Board Interface
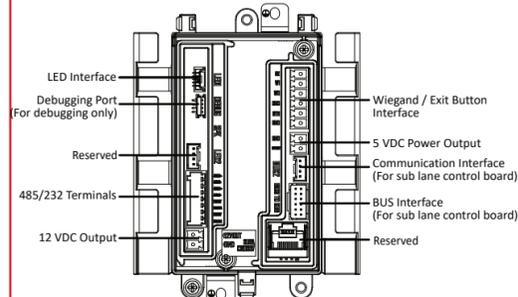12 VDC Output
RS-485 Interface
24 VDC Input

① ②
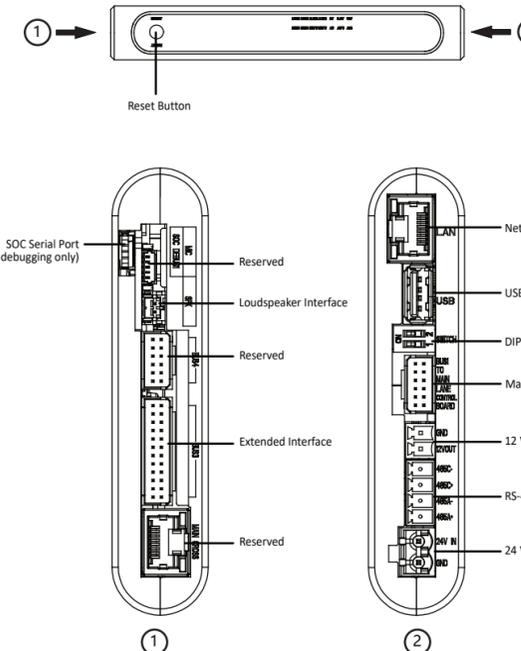
ℹ
● Hold the reset button for 5 s, the device will beep for 3 s and start restoring to factory settings.
● RS-485A corresponds to port 3 on web and is for QR code scanner connection at entrance by default; RS-485C corresponds to port 5 on web and is for card reader connection at entrance by default.

Main Optional Board Terminal (Optional)

- Sub-1 G Antenna
- LED Interface
- Debugging Port (For debugging only)
- Loudspeaker Interface
- Reserved
- Reserved
- Wiegand / Exit Button Interface
- 5 VDC Power Output
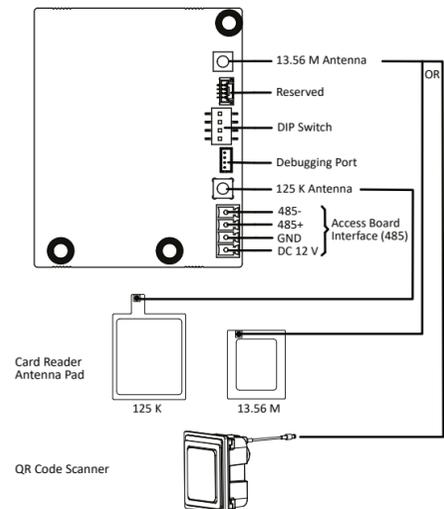- Communication Interface (For main lane control board)

ℹ If access board is installed, the loudspeaker can be connected to the access board; If access board is not installed, the loudspeaker can be connected to the main optional board.

Sub Optional Board Terminal (Optional)

- LED Interface
- Debugging Port (For debugging only)
- Reserved
- 485/232 Terminals
- 12 VDC Output
- Wiegand / Exit Button Interface
- 5 VDC Power Output
- Communication Interface (For sub lane control board)
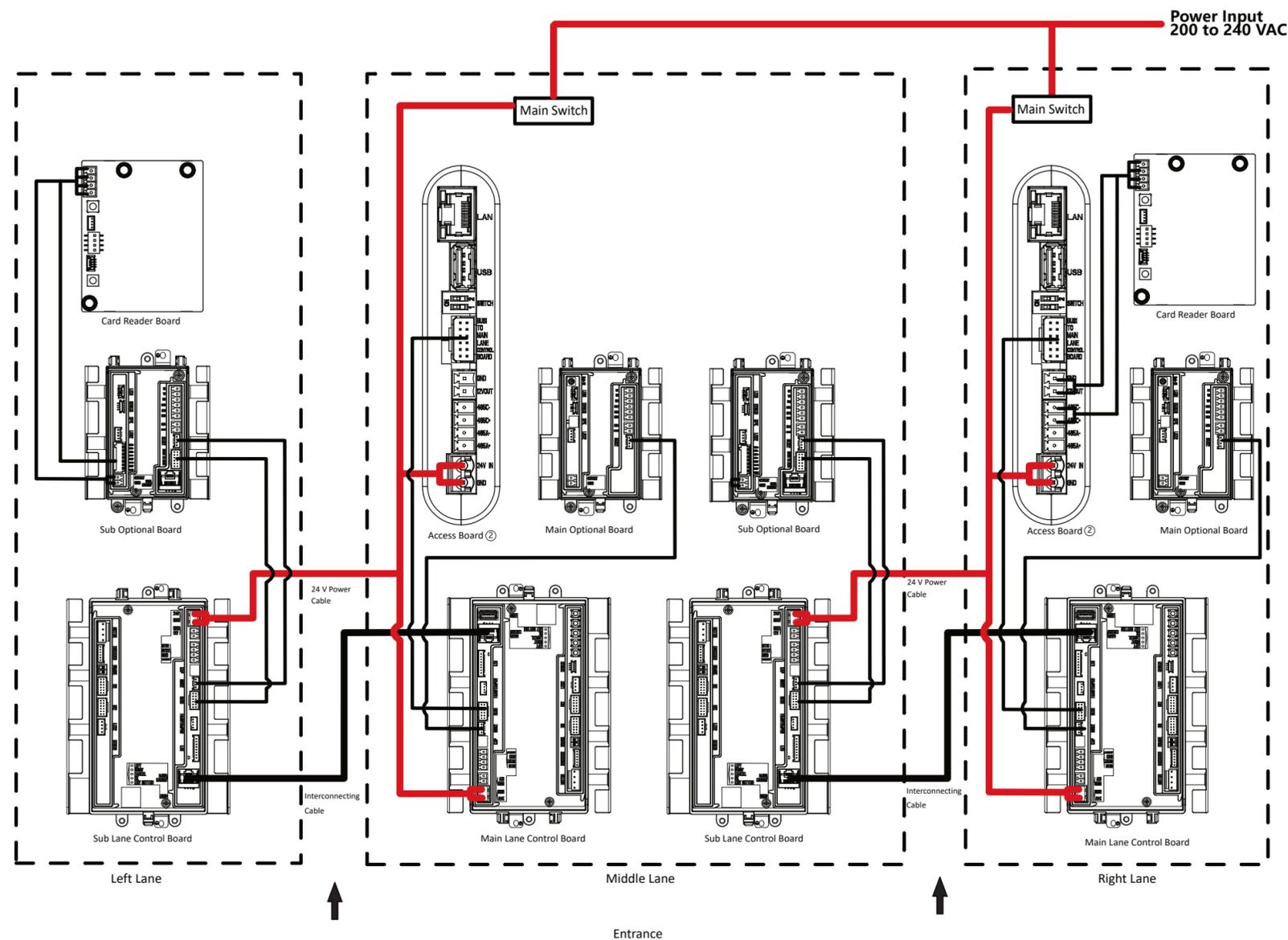- BUS Interface (For sub lane control board)
- Reserved

ℹ
- RS-485B corresponds to port 4 on web and is for QR code scanner connection at exit by default.
- RS-485D corresponds to port 6 on web and is for card reader connection at exit by default;
- RS-232B corresponds to port 2 on web.

Card Reader Board (Optional)

- 13.56 M Antenna
- Reserved
- DIP Switch
- Debugging Port
- 125 K Antenna
- 485-
- 485+
- GND
- DC 12 V
- Access Board Interface (485)

- Card Reader Antenna Pad
- 125 K
- 13.56 M
- QR Code Scanner

4 Wiring Diagram

ℹ
- The power cable from power supply to the main lane control board has been connected. You will need to prepare the 14AWG power cable to connect the AC power input to power supply.
- Barrier opens at the entrance/exit: connect to BTN1/BTN2 and GND.

Power Input 200 to 240 VAC

Main Switch
Main Switch

Card Reader Board
Card Reader Board

Sub Optional Board
Access Board ②
Main Optional Board
Sub Optional Board
Access Board ②
Main Optional Board

24 V Power Cable
24 V Power Cable

Sub Lane Control Board
Main Lane Control Board
Sub Lane Control Board
Main Lane Control Board

Interconnecting Cable
Interconnecting Cable

Left Lane
Middle Lane
Right Lane

Entrance

5 Quick Start

You need to install the access board.

Activation

ℹ Make sure the device and the computer are under the same network segment.

- Enter the device default IP address (192.0.0.64) and create a new password (admin password) to activate the device.
- Download SADP or client software from the official website and run it, search all devices on your LAN, select your device and create a new password (admin password) to activate the device.

ℹ We highly recommend you create a strong password with a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. Characters containing admin and nimda are not supported.

Configuration via PC Web

Make sure the device is activated. Enter the device IP address in the address bar of the web browser and press Enter to enter the login page. Enter the device user name and the password. Click Login.

Configuration via Client Software

After downloading the client software, you can conduct device management, group management, person management and access control management.

Refer to the user manual for more configuration details.

6 Button Description

- Add 10 (LEFT)
- Add 1 (RIGHT)
- CANCEL
- OK
- Exit Button

Level-1 Menu
Level-2 Menu
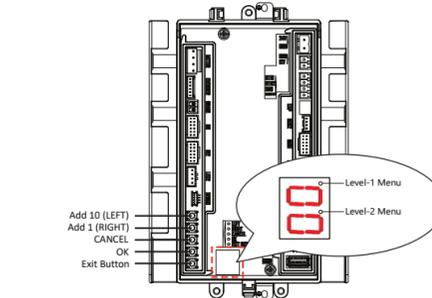
ℹ The buttons are on the main lane control board. Use them to configure the passing mode, etc.

Exit Button

Single press to open from the entrance position.
Double press to open from the exit position.
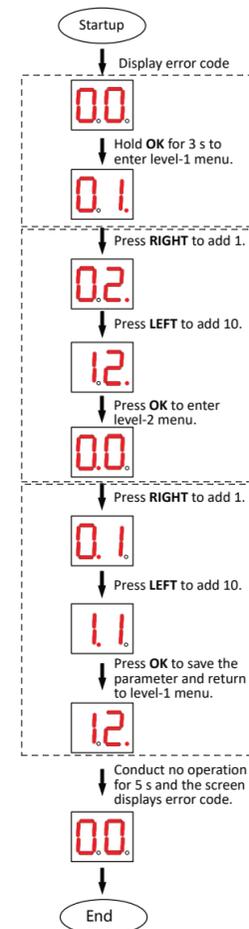
Parameter Configuration Button

Configuration data: Configuration data is displayed on the screen display.
LEFT: Press this button to add ten to the number for the configuration.
RIGHT: Press this button to add one to the number for the configuration.
CANCEL: Return to the level-1 menu, or exit the configuration from the level-1 menu.
OK: Confirm the data, or enter configuration mode, or enter the submenu.
Level-1 Menu: If the decimal point on the right is on, it indicates the level-1 menu. The number represents the configuration item number.
Level-2 Menu: If the decimal point in the middle is on, it indicates the level -2 menu. The number represents the parameters of a configuration item.

Procedure

Enter the configuration mode. The number 1 will show up on the right side of the screen and the device is ready for configuration.

Press **LEFT** and **RIGHT** to set the configuration No. Press **OK** to enter the level-2 menu and view the parameters. Press **CANCEL**, or conduct no operation for 5 s to cancel the configuration.

Press **LEFT** and **RIGHT** to set the parameters. Press **OK** to save the change. Press **CANCEL** to return to the level-1 menu without saving the change, or conduct no operations for 5 s to cancel the configuration.

Startup
↓
Display error code
↓
0.0
↓ Hold **OK** for 3 s to enter level-1 menu.
0.1.
↓ Press **RIGHT** to add 1.
0.2.
↓ Press **LEFT** to add 10.
1.2.
↓ Press **OK** to enter level-2 menu.
0.0
↓ Press **RIGHT** to add 1.
0.1
↓ Press **LEFT** to add 10.
1.1
↓ Press **OK** to save the parameter and return to level-1 menu.
1.2.
↓ Conduct no operation for 5 s and the screen displays error code.
0.0
↓
End

ℹ
- If the optional board is not installed, the error code of "59" will appear, but the device functions normally.
- Refer to the user manual for button description details.