AccessPRO®

PRO-KEYPADH1 Series Access Control Terminal

User Manual

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measure is divided into Dangers and Cautions:

Dangers: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

⚠	⚠
Dangers: Follow these safeguards to prevent serious injury or death.	**Cautions:** Follow these precautions to prevent potential injury or material damage.

⚠ Danger

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- Do not ingest battery, Chemical Burn Hazard. This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

⚠ Cautions

- This equipment is not suitable for use in locations where children are likely to be present.
- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).

- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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Chapter 1 Appearance

Refer to the following contents for detailed information of the access control terminal:

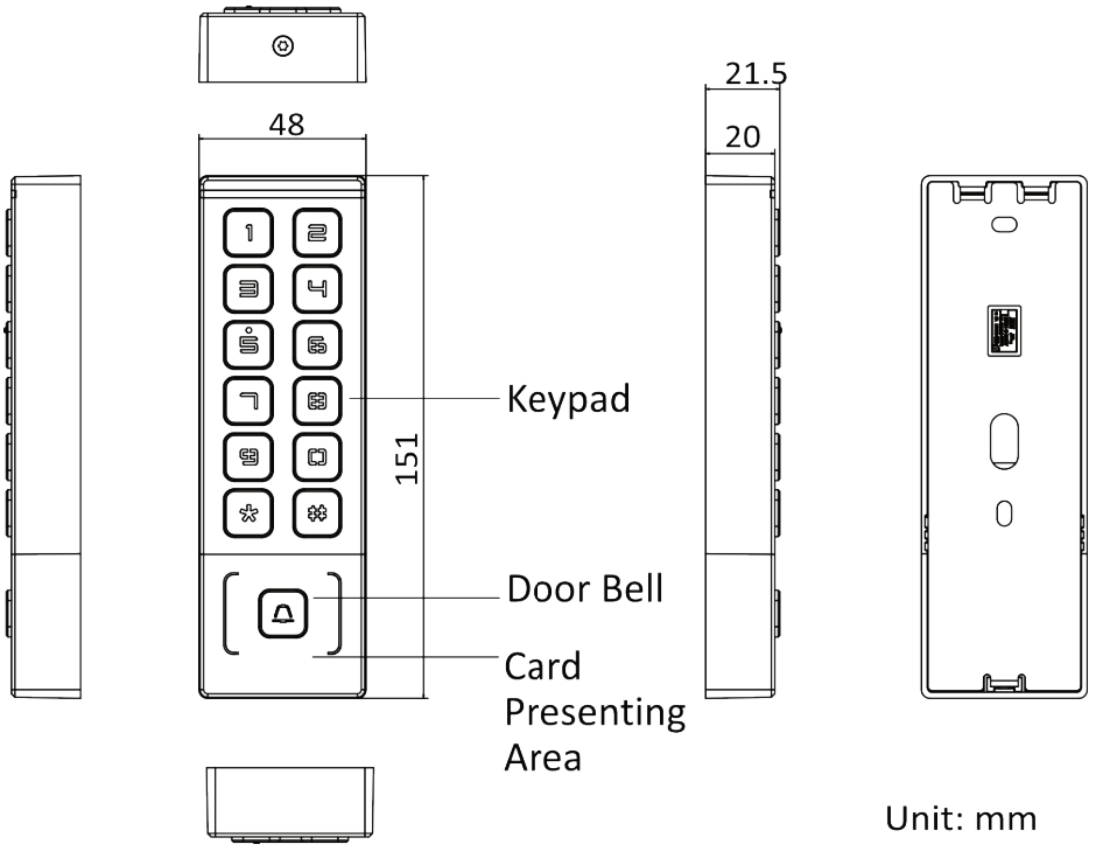


Figure 1-1 Access Control Terminal

Note

The pictures here are for reference only.

Chapter 2 Installation

2.1 Installation Environment

- The minimum bearing weight of the wall or other places should be 3 times heavier than the device weight.
- Please prepare the following tools and accessories: screwdriver (self purchased), screws, cables, and adapters (self purchased).

2.2 Surface Mounting

Steps

1. **Attach the installation sticker to the wall about 1.45 m from the ground or the location where the device needs to be installed, and punch the hole according to the hole location (hole 1 and hole 2) on the sticker and wall.**

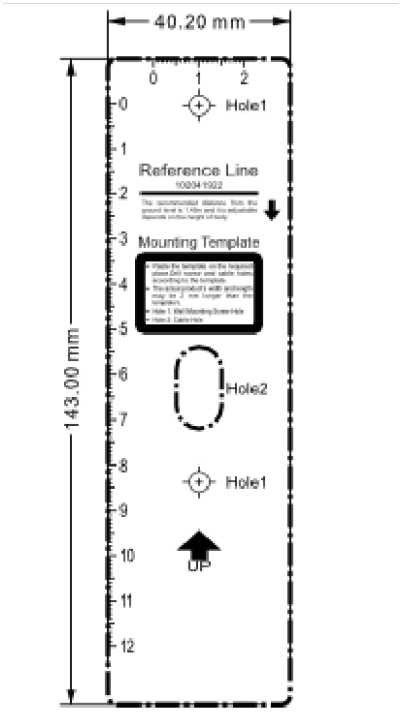


Figure 2-1 Installation Sticker

2. **Insert the plastic slave of the provided expansion screw into the punched hole.**

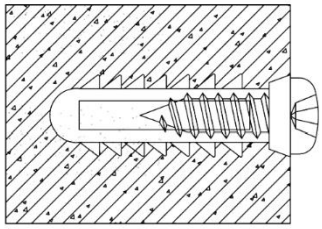


Figure 2-2 Insert Plastic Slave

3. **Make sure the cables are threaded through the hole.**

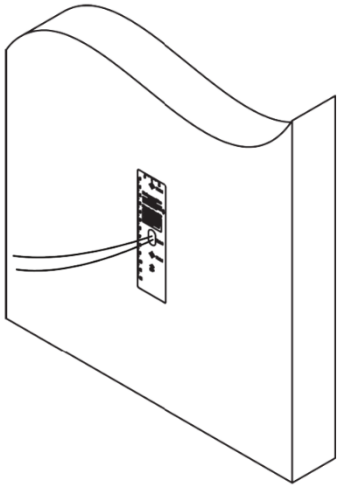


Figure 2-3 Thread Cables

4. **Secure the mounting plate on the gang box with two supplied screws (PA4X25-SUS).**

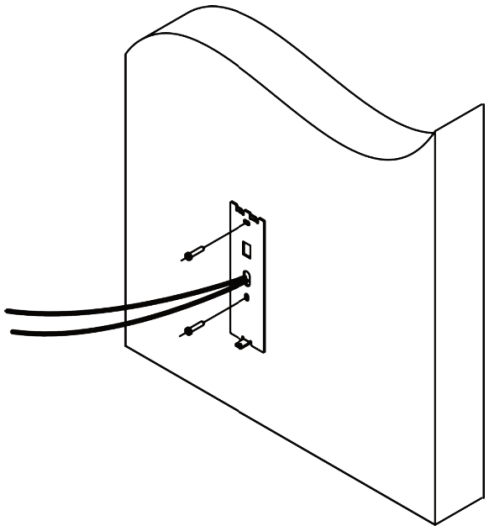


Figure 2-4 Secure Mounting Plate

5. **Complete the wiring. See the wiring diagram for details.**

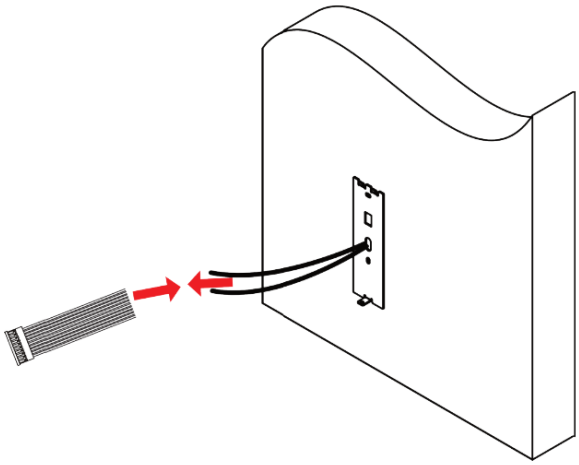


Figure 2-5 Complete Wiring

6. **Hang the device into the plate from top to bottom. Secure the device on the mounting plate with 1 supplied screw (SC-KM3X6-T10-SUS).**

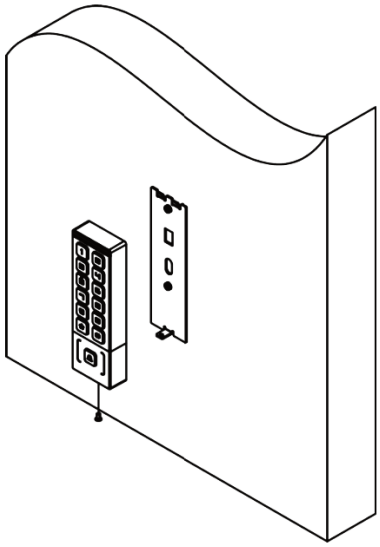


Figure 2-6 Secure Device

Chapter 3 Device Wiring

3.1 External Device Wiring

Wire the external device

The wiring diagram is as follows

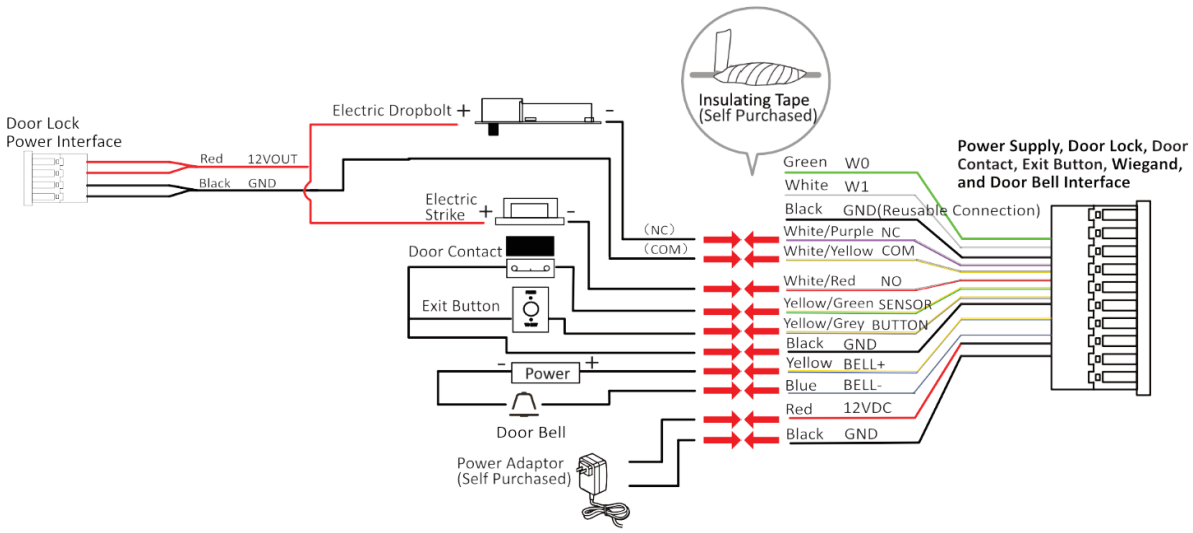


Figure 3-1 External Device Wiring

Note

- Use a DC 12 V power supply. Do not connect the device directly to the 220 V mains.
- The suggested external power supply for door lock is 12 V, 1 A.

Chapter 4 Operation Commands

4.1 Common commands

Table 4-1 Common Commands Description

Module	Operation	Command	Description
Active Device	Activate	[*][0][#] [Programming Password (6 to 8 Digits)] [Repeat Programming Password (6 to 8 Digits)] [#]	The 6 to 8 digits programming password cannot all be 0.
Pro Programming Mode	Enter Programming Mode	[Programming Password (6 to 8 Digits)] [*][0][#]	/
	Exit Programming Mode	[*] [#]	/
	Change Programming Password	[00] [New Programming Password (6 to 8 Digits)] [Repeat New Programming Password (6 to 8 Digits)] [#]	/
Add Door Opening Credential	Set Door Opening Password	[03] [Door Opening Password (4 to 8 Digits)] [Repeat Door Opening Password (4 to 8 Digits)] [#]	/
	Add User Card	[01] [User Code (4 Digits)](Optional) [Swipe Card]...	If you choose to add a user code, you can save the added card to the user code location.
	Delete User Card	[02] [Swipe Card]...	/
	Add User Cards in Batch	[01] [User Code (4 Digits)](Optional) [Swipe Card 1][Swipe Card 2][Swipe Card 3]...	/

Module	Operation	Command	Description
	Delete User Cards in Batch (Method 1)	[02] [Swipe Card 1] [Swipe Card 2][Swipe Card 3]...	/
	Delete User Cards in Batch (Method 2)	[15] [Programming Password (6 to 8 Digits)] [#]	/
	Delete User Code	[02] [User Code] [#]	/
	Delete User Codes in Batch	[02] [User Code] [#] [User Code] [#]...	/

4.2 Basic Commands

The device needs to be activated before it can be used. After activating, the device can be at two modes: normal mode and programming mode. After entering programming mode, the device can be operated by commands.

4.2.1 Activation

Command

Activate: [*][0][#] [Programming Password (6 to 8 Digits)] [Repeat Programming Password (6 to 8 Digits)] [#].

Note

The 6 to 8 digits programming password cannot all be 0.

Prompts Description

Indicator	Prompt Audio	Description
Light is solid green.	The buzzer rings for 3 s.	Activated, and in normal mode (not programming mode).
Light flashes blue slowly for 3 times.	The buzzer rings for 5 times quickly.	Activating failed.
Light flashes orange slowly.	/	Inactivated

4.2.2 Enter and Exit Programming Mode

There are two ways to enter the programming mode: enter the command, or directly swipe the functional card (including management card, adding card and deleting card).

Programming Mode Command

Enter Programming Mode: [Programming Password (6 to 8 Digits)] [*][0][#].

Exit Programming Mode: [*] [#].

Change Programming Password: [00] [New Programming Password (6 to 8 Digits)] [Repeat New Programming Password (6 to 8 Digits)] [#].

Table 4-2 Prompts Description

Indicator	Prompt Audio	Description
Light is solid blue for 2 s.	The buzzer rings 2 times quickly.	Enter Programming Mode
Light is solid red for 2 s.	The buzzer rings 3 times slowly.	Entering Programming Mode failed
/	The buzzer beeps 1 sound.	Swipe Card and Press Button Prompt Audio
/	The buzzer rings 2 times.	Exit due to timeout.

- After 5 consecutive programming password input errors, the device will enter a locked status. After waiting for 1800 s or after the device losing power time cleared, you can enter the programming password again to enter the programming mode. Enter the programming password in the locked status, the indicator will be solid orange for 2 s, and the buzzer will ring 5 times quickly, indicating that it cannot enter the programming mode.
- In programming mode, "*" represents a fallback to programming mode without entering a command, and "# "Indicates the end or completion of a command.
- In programming mode, you need to press "*" to exit the batch addition and deletion mode.

Swipe Functional Card

After swiping the functional card in the card swiping area, you can directly enter the programming mode. See Set Functional Card for adding details.

4.3 Other Common Commands

4.3.1 Open Door

There are two ways to open door: enter the password, or swipe user card.

Prompts Description

Indicator	Prompt Audio	Description
Light is solid blue for 2 s.	The buzzer rings 2 times quickly.	Authenticated

Light is solid red for 2 s.	The buzzer rings 3 times slowly.	Authentication failed
/	The buzzer beeps 1 sound.	Swipe Card and Press Button Prompt Audio
/	The buzzer rings 2 times.	Exit due to timeout.

Set Door Opening Password

You can set the door opening password and open door by entering the door opening password.

Command

Command of Setting Door Opening Password: [03] [Door Opening Password (4 to 8 Digits)] [Repeat Door Opening Password (4 to 8 Digits)] [#].

Note

The 4 to 8 door opening password cannot all be 0. If all of them are 0, the door opening password function will be disabled.

Add/Delete User Card

Command

Add User Card: [01] [User Code (4 Digits)] (Optional)[Swipe Card]...

Add User Card in Batch:[01] [User Code (4 Digits)](Optional) [Swipe Card 1][Swipe Card 2][Swipe Card 3]...

Note

- If you enter a user code before adding a card, the location of the added user card is under this code ID, and if you do not enter the user code, the added card has no fixed position.
- The user code format is 4 digits and the range is from1 to 1000. If the entered code content and format is incorrect, the addition fails, and the current adding command ends.

Delete User Code: [02] [User Code] [#].

Delete User Code in Batch: [02] [User Code] [#][User Code] [#]...

Delete User Card: [02] [Swipe Card].

Delete User Card in Batch (Method 1): [02] [Swipe Card 1] [Swipe Card 2][Swipe Card 3]...

Delete User Card in Batch (Method 2): [15] [Programming Password (6 to 8 Digits)] [#].

4.3.2 Set Functional Card

Functional cards include management card, adding card and deleting card.

Note

Functional cards cannot be used to open door, but are only equivalent to a certain command.

Management Card

Swipe the management card in the standby status: it means that the device directly enters the programming mode, and there is no need to enter the command to enter the programming mode.
Command of Adding Management Card: [04] [Swipe Card].
Command of Deleting Management Card: [04][#].
Command of Adding Management Card, Adding Card and Deleting Card at Once: [10] [Swipe Management Card][Swipe Adding Card] [Swipe Deleting Card].

Note

After swiping the management card to enter the programming mode, if the device is not operated for 30 s, it will exit programming mode. Swipe twice in 3 seconds to switch door contact settings. When switching the door contact, the buzzer ringing 8 times slowly means that the mode is switched to remain closed, and the buzzer ringing 8 times quickly means that the mode is switched to remain open.

Adding Card

Swipe the adding card in the standby status: it means that the device directly enters the programming mode, and enters the [01] command (adding command).

For example, if you need to add a user card, you can swipe the adding card and then swipe a user card when the device is in standby status.

Command of Adding Adding Card: [06] [Swipe Card].

Command of Deleting Adding Card: [07][#].

Note

After swiping the adding card to enter the programming mode, if the device is not operated for 30 s, it will exit programming mode.

Delete Card

Swipe the deleting card in the standby status: it means that the device directly enters the programming mode, and enters the [02] command (deleting command).

For example, if you need to delete a user card, you can swipe the deleting card and then swipe a user card when the device is in standby status.

Command of Adding Deleting Card: [08] [Swipe Card].

Command of Deleting Card: [09][#].

Note

After swiping the deleting card to enter the programming mode, if the device is not operated for 30 s, it will exit programming mode.

4.4 Advanced Commands

4.4.1 Set Door Parameters

The door opening time, door opening timeout, door contact type and exit button type can be set by command.

Command: [11] [Data Bit 1] [Data Bit 2] [Data Bit 3] [Data Bit 4] [#].

Data Bit 1: Indicates the door opening time, which is a three digits number from 000 to 255. The unit is second. If the door opening time is 3 s, the data bit 1 is set to 003. The default door opening time is 5 s.

Data Bit 2: Indicates the door opening timeout, which is a two digits number. The unit is second. If the door is opened beyond this setting time, the device will alarm and ring for 10 s. If you enter "50", the alarm time for door opening timeout will be 50 s. The default door opening timeout is 30 s.

Data Bit 3: Indicates the type of door contact, which is a one digit number. "0" means remaining closed, and "1" means remaining open. It is remaining closed by default.

Data Bit 4: Indicates the type of exit button, which is a one digit number. "0" means remaining closed, and "1" means remaining open. It is remaining closed by default

4.4.2 Set Voice Parameters

You can set whether to enable the button sound and authentication prompt audio through the command.

Command: [12] [Data Bit 1] [Data Bit 2] [#].

Data Bit 1: Indicates whether to enable the button sound, one digit number. "0" means the button sound is disabled, and "1" means the button sound is enabled. It is enabled by default.

Data Bit 2: Indicates whether to enable the authentication prompt audio, one digit number. "0" means the authentication prompt audio is disabled, and "1" means the authentication prompt audio is enabled. It is enabled by default.

4.4.3 Set Card Reader Wiegand Mode

The Wiegand mode of card reader can be set by command.

Command: [14] [Data Bit 1] [#].

Data Bit 1: "0" means Wiegand 26 mode, and "1" means Wiegand 34 mode. The default mode is Wiegand 34.

4.4.4 Restore to Default Settings

You can perform commands or press button to restore to default settings.

Command 1: [16] [Programming Password (6 to 8 Digits)]] [#] (Only Restore Data except User Cards Data).

Command 2: Press and hold the "*" button for 5 seconds within 30 seconds of powering on.

4.4.5 Restart Device

You can restart the device by command.

Command: [17] [Programming Password (6 to 8 Digits)] [#].

4.4.7 Restore to Factory Settings

You can restore the device to factory settings by command.

Command: [18] [Programming Password (6 to 8 Digits)]] [#] (Restore All User and Default Data).

Appendix C. Dimension

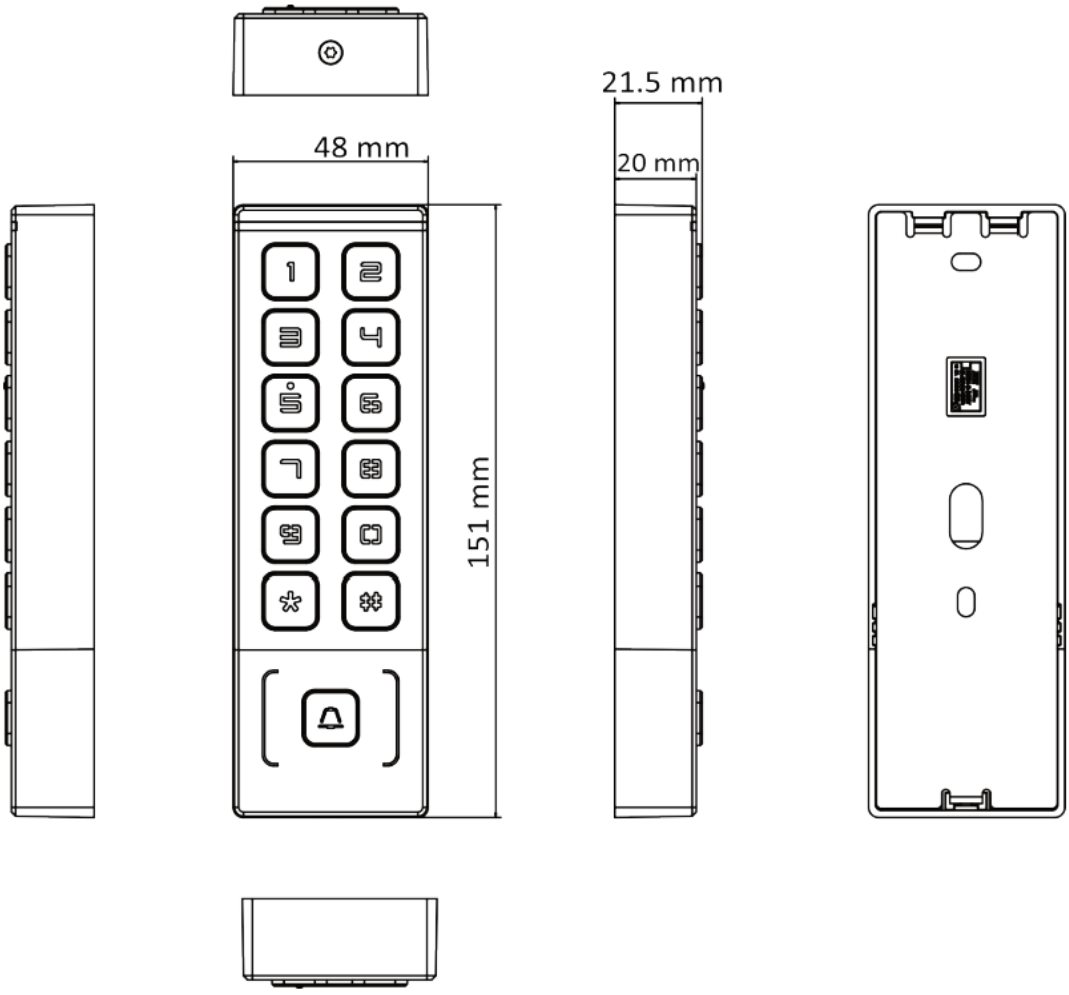


Figure C-1 Dimension


AccessPRO®