DS888 Electronic Lock Specification

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Hubei Jinfu Technology Co., Ltd.
Add:No. 98, 14 th Floor, R& D Building 1, Modern Service Base of Huagong Science and Technology Park & Huazhong University of Science and Technology , Wuhan East Lake New Technology Development Zone.China
Post code: 430000
Tel: +86 027-88389899
Fax: 02788389899
Mobile: 13655776555
E mail: 88389899@ 163.com

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1 . Product Introduction

DS888 is a smart cabinet lock developed by our company. The lock shell of this lock is made of aluminum alloy and has an IP65 waterproof rating. It can be used indoors and outdoors.

Product functions include RS485 remote communication, Bluetooth, code scanning and other unlocking methods.Bluetooth code scanning background monitoring and management, etc., through smart phone APP or remote control device, monitor the door lock status anytime and anywhere to achieve intelligent management. It adopts advanced encryption technology to ensure the security of door lock data, and integrates multiple functions to achieve remote control, Bluetooth code scanning personnel management, background monitoring, etc.

Unlocking in emergency situations can be divided into two methods: mechanical and electronic according to needs (optional). The main difference between the two is the equipment management and data recording of unlocking personnel. This electronic lock is widely used in transformer boxes, substations, outdoor smart cabinets and other application places.

2 . Technical parameters

	Item	Specification/Condition
Overall specifications	Model	DS888
	Overall dimensions	See drawing
	Panel cutout	169*76mm
	Rated Voltage	DC 12V
	Operating Voltage	DC 12V±10%
	Power Consumption	≤3.6W
	Rated Current	≤0.25A
	Protection degree	IP65
	Unlock method	RS485+Bluetooth+DO&DI +electronic key/mechanical key (optional)
	Anti-prying level	RC 4
	Fire-proof level	UL94-V0
	Mechanical lock cylinder type	Single pass configuration (001-200) Note: Domestic non-standard
Hardware specifications	**Name**	**Specification**
	Hardware platform	32 bit ARM Cortex™-M4F
	Item	**Condition**
	working environment	Temperature: -30~70℃ Humidity: 10-90%
	Storage environment	Temperature: -40~80℃ Humidity: 0-90%

Environmental conditions	Altitude	-60m-4000m
	Packaging vibration resistance test	After packaging, there was no abnormality after applying 1.1G acceleration + vibration in XYZ three directions for 30 minutes.
	Packaging impact resistance test	After being packed, it is 60 cm high, has 1 corner, 3 sides and 46 faces. It fell naturally without serious damage.

3 . Operating instructions

3.1 RS485 remote unlocking

After the lock is powered on, the host computer connects the locks 485A and 485B, and sends the lock to the developer via RS485 lock command, trigger the lock to unlock, the green light turns on and the buzzer prompts, then press the handle to open the lock, for detailed RS485 protocol, see "RS485 Communication Protocol".

3.2 Electronic key/mechanical key unlocking

3.2.1 Use a mechanical key to open the mechanical lock cylinder in an emergency and rotate the handle to unlock action;

3.2.2 Using an electronic key to unlock the door requires the operator to have permission to unlock the door. The electronic key is connected to the mobile phone.After the mini program is Bluetooth, click to unlock, align the key with the electronic lock cylinder and hear the beep, then rotate the lock. The core performs the unlocking action.

3.3 Bluetooth unlocking/scan code unlocking

3.3.1 Log in to PC for authorization

You need to enter http://152.136.192.99:8100/#/login on the PC to log in.Administrator account, authorize the lock to the user account.

3.3.2 Log in to the applet

Search the "Jinfu IoT" applet in the WeChat applet on your mobile phone and log in with an authorized account.

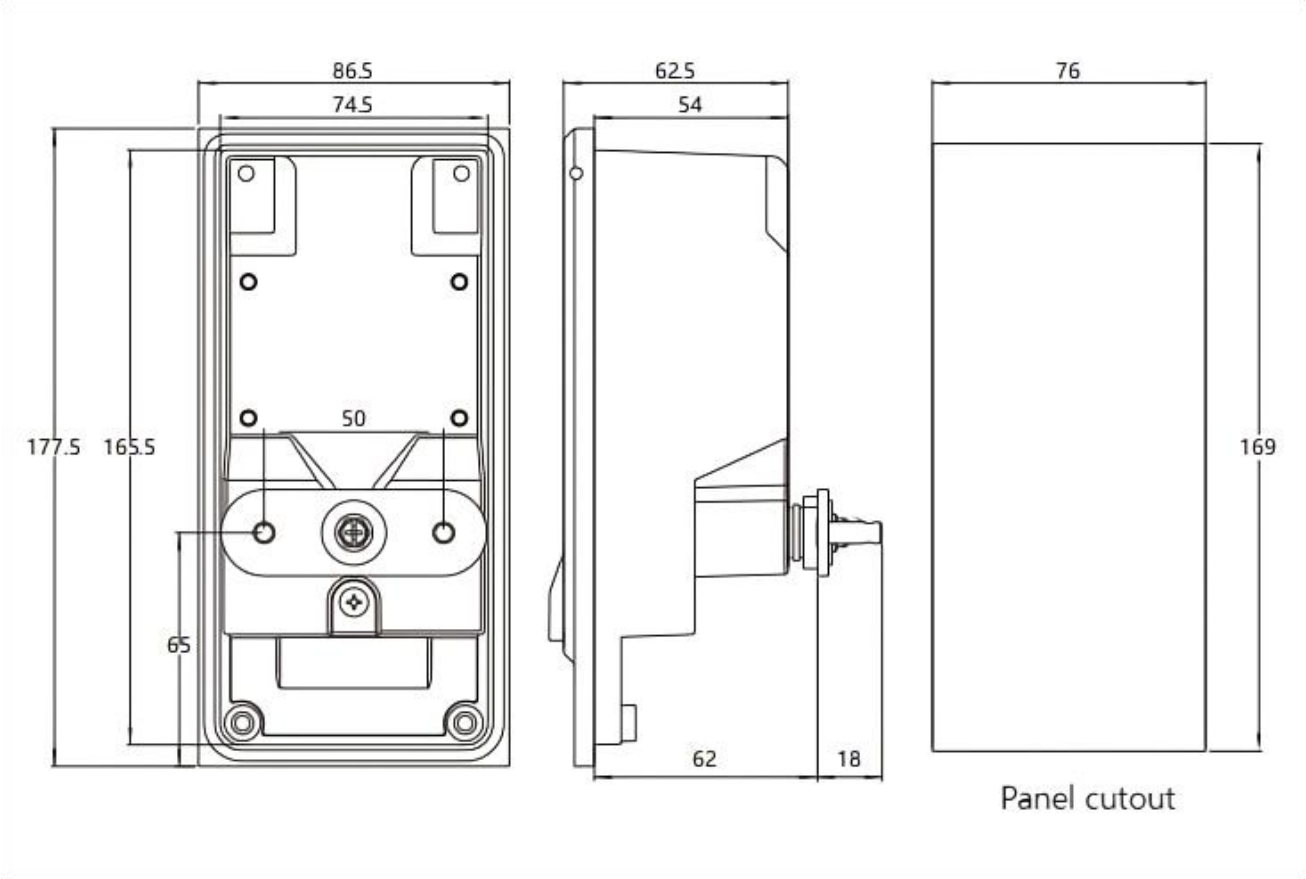
3.3.3 Bluetooth/scan code unlocking operation

After logging in to your account, click on the Bluetooth logo on the main page, find the Bluetooth number of the corresponding lock, and click to unlock; or click to scan the logo and scan the QR code on the lock, and the phone can automatically connect to the Bluetooth of the electronic lock to perform the unlocking operation.

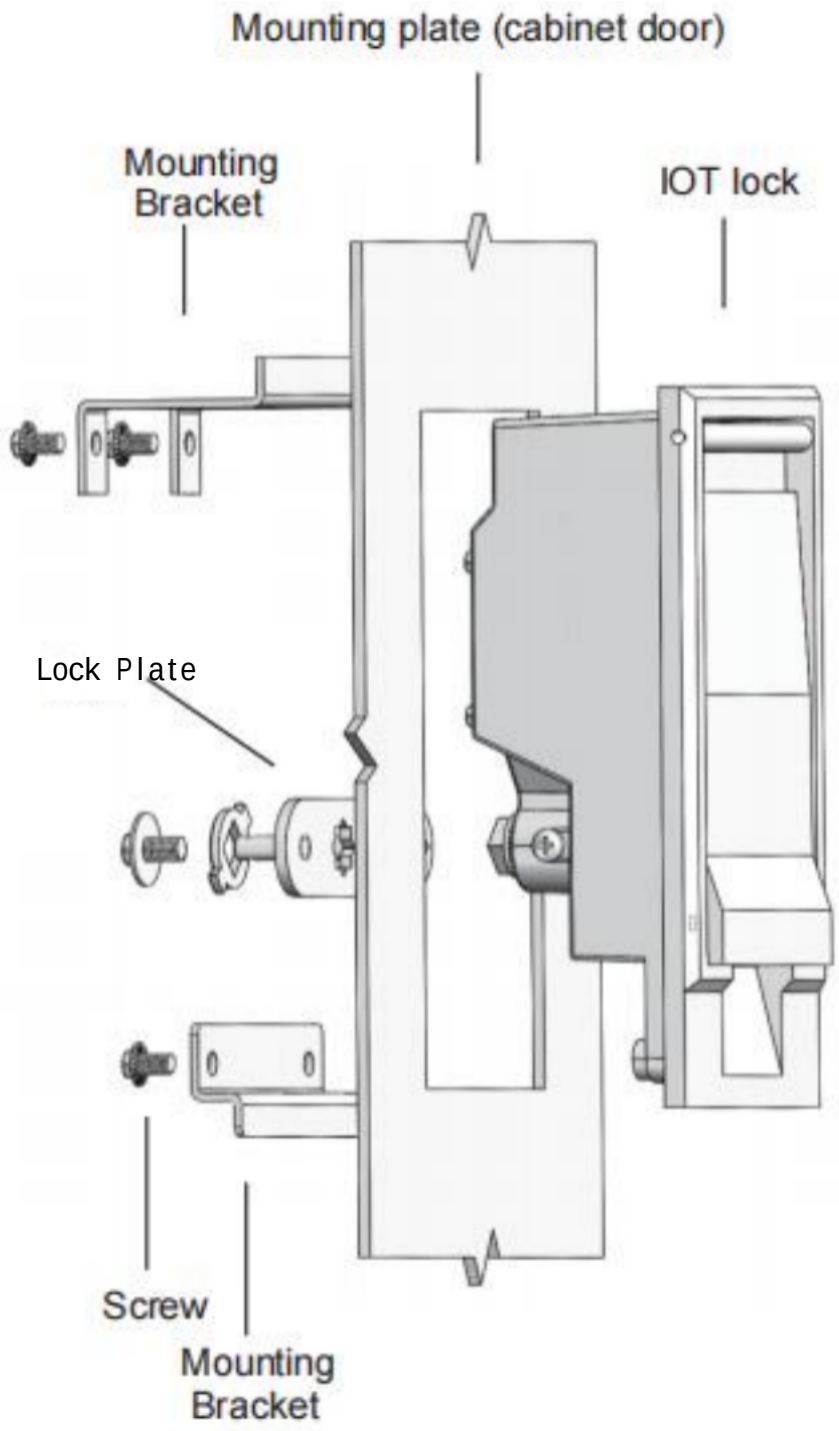
3.4 DO&DI unlocking

After the lock is powered on, touch the brown wire and orange wire, the lock will light up green and the buzzer will sound. Press the handle to open the lock.

4 . Dimension diagram



5 . Installation diagram



6 . Wiring diagram

No.	Color	Signal
1	Red	+12V
2	Black	GND
3	Yellow	RS485A
4	White	RS485B
5	Blue	Handle status +
6	Green	Handle status -
7	Orange	Door sensor status +
8	Brown	Door sensor status -

Matters need attention:

1. When the handle is open, pin 5 and pin 6 are disconnected; when the handle is closed, pin 5 and pin 6 are connected.

2. When the door magnet is open, pin 7 and pin 8 are disconnected; when it is closed, pin 7 and pin 8 are connected.

7 . Packing List

Attachment No.	Attachment description	Unit	Qty	Remark
1	Electronic lock	set	1	
2	Connection line	pair	1	/
3	Anti-thefting key	piece	1	/
4	Lock Plate	piece	1	optional

8 . Matters need attention

1、Please do not use it beyond the limited parameter in this specification, otherwise we will not offer any warranty.

2、In case of any changes of the specification specified on this document.A written notice is requested in advance.

3、Please do not wrap the power cord around the lock or pull the power cord hard, otherwise the power cord may be damaged and cause function failure.

4、If any information and documents are different from this document, this document will be taken as the main reference.

5、Please do not use in hazardous environment or any environment with flammable gas .

6 、Please be cautious when handling or installing, it may cause damage if electronic lock fell to the ground.

7、The torque of the screw is not allowed to exceed 3N.m,and the torque of the handle is not allowed to exceed 30N.m.

8 、During the installation, any strike to the lock body is not allowed to avoid damage to the components.Installer should wear gloves.

9、The door must be kept stable during installation, and the cutout of cabinet door must match the lock.

10、Do not strike the lock body by force to prevent the lock from corrosion,please do not use chemical substances to wipe the surface of the lock body.

11 、After installation, the lock body should kept flat and vertical. The lock can reach the waterproof grade of IP65 without coating any waterproof glue.