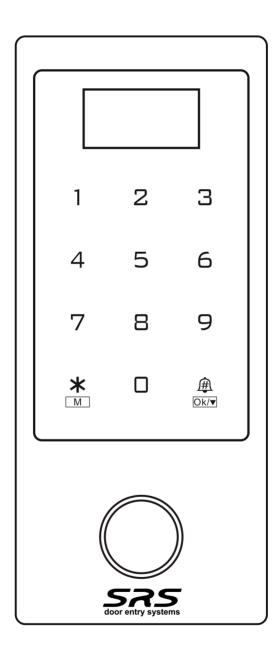
WEATHERPROOF PIN / CARD / FINGERPRINT DIGITAL ACCESS CONTROL KEYPAD



DC300
Installation & Programming Manual

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INTRODUCTION -

This device is a standalone, single door, access control unit with built-in keypad, fingerprint and proximity reader. The DC300 unit can be either, programmed manually using it's built-in OLED display and numeric keypad or remotely by installing an App on your mobile device. Mobile App offers additional functions not available in stand alone programming mode.

Card/ PIN device:

10,000 users (9988 common + 2 panic + 10 visitor)

Card/ PIN/ Fingerprint device:

Three user capacities are available:

- 1) 10,000 card/ PIN users + 500 fingerprint users (standard version)
- 2) 10,000 card/PIN users + 100 fingerprint users
- 3) 10,000 card/ PIN users + 880 fingerprint users

Features

- > OLED display, touch keypad
- > Metal case, anti-vandal
- > Waterproof, conforms to IP66
- > One relay
- > PIN length: 4~6 digits
- > EM card, EM+ Mifare card optional
- > EM card: Wiegand 26~44 bits input & output Mifare card: Wiegand 26~44bits, 56bits, 58bits input & output
- > Can be used as Wiegand reader with LED & buzzer output
- > Card block enrollment
- > Tri-color LED status display
- > Integrated alarm & buzzer output
- > Pulse mode, Toggle mode
- > User data can be transferred
- > 2 devices can be interlocked for 2 doors
- > Built-in light dependent resistor (LDR) for anti tamper
- > Backlit keypad, can set automatic OFF after 20 seconds

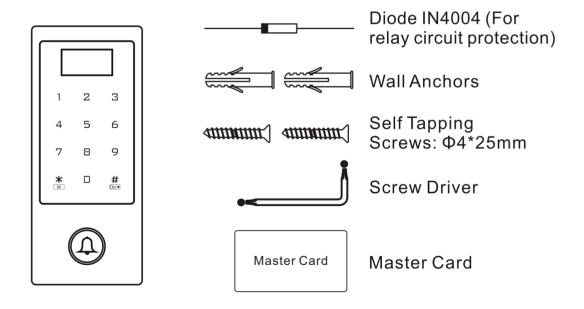
Specifications

User Capacity	Card/ PIN	Card/ PIN/ Fingerprint
Common Card/ PIN User Common Fingerprint User Panic User Visitor User	9988 / 2 10	9988 500 (100,880 optional) 2 10
Operating Voltage Working Current Idle Current	12~28VDC ≤150mA ≤60mA	
Proximity Card Reader Radio Technology Read Range	EM or EM+Mifare 125KHz or 125KHz+ 13.56MHz 2~6 cm	
PIN Length	4~6 digits	
Wiring Connections	Relay Output, Exit Button, Alarm, Door Contact, Wiegand Input, Wiegand Output	
Relay Adjustable Relay Output Time Lock Output Load	One (NO, NC, Common) 0~99 Seconds (5 seconds default) 2 Amp Maximum	
Wiegand Interface PIN Output	EM card version: Wiegand 26~44 bits input & output (Factory Default: Wiegand 26bits) Mifare card version: Wiegand 26~44bits, 56bits, 58bits input & output (Factory Default: Wiegand 34bits) 4 bits, 8 bits(ASCII), 10 digits Virtual Number (Factory Default: 4 bits)	
Environment Operating Temperature Operating Humidity	Meets IP66 -40°C ~ 60°C (-40°F ~ 140°F) 0%RH~98%RH	
Physical Colour Dimensions Unit Weight Shipping Weight	Zinc-Alloy Silver & Black L145 x W68 x D25 (mm) 500g 615g	

Wiring

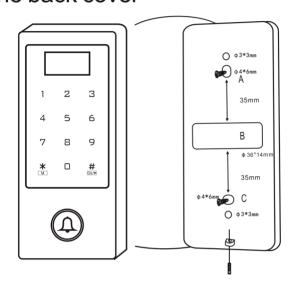
Wire Color	Function	Notes	
Basic Standalone Wiring			
Red	+	12-28VDC	
Black	_	0V	
Grey&Black	GND	Negative Pole	
Blue & Black	Relay NO	Normally Open Relay Output (install diode provided)	
White & Black	Relay Common	Common Connection for Relay Output	
Green & Black	Relay NC	Normally Closed Relay Output (Install diode provided)	
Yellow	OPEN	Request to Exit(REX) Input	
Pass-Through Wiring (Wiegand Reader or Controller)			
Green	Data 0	Wiegand Output (Pass-through) Data 0	
White	Data 1	Wiegand Output (Pass-through) Data 1	
Advanced Input and Output Features			
Grey	Alarm Output	Negative contact for Alarm	
Brown	Contact Input	Door/Gate Contact Input (Normally Closed)	
Brown & Black	Doorbell A	Contact for Doorbell	
Yellow & Black	Doorbell B	Contact for Doorbell	

Carton Inventory



INSTALLATION

- > Remove the back cover from the unit
- > Drill 2 holes(A,C) on the wall for the screws and one hole for the cable
- > Knock the supplied rubber bungs to the screw holes(A,C)
- > Fix the back cover firmly on the wall with 4 flat head screws
- > Thread the cable through the cable hole(B)
- > Attach the unit to the back cover



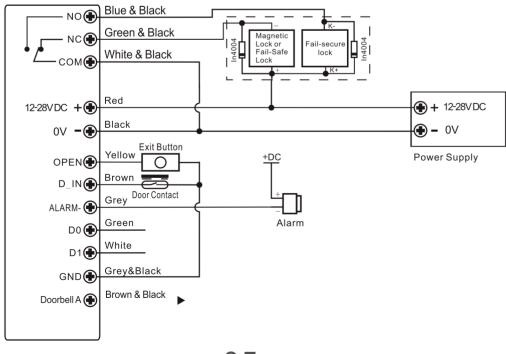
CONNECTION DIAGRAM

Standalone Mode-

The device can work as Standalone Access Control for single door. (Factory default mode)

Connection Diagram

Common Power Supply



PROGRAMMING

Keys & Functions - -

0~9: Enter value, menu number



Ok means confirm

▼ means down to select



Means doorbell



M means menu

Short press * means back to the previous menu Long press * means back to main interface

System Menu - - - - - - - -

> Please input * (Master Code) # to enter system menu. (Factory default master code is 123456)

> Reset Master Code

Turn Power OFF

Connect yellow and black wires together

Turn Power ON

Wait for two short Beeps (code reset successful)

Keypad will go to standby mode after 3 seconds

>Time Settings

Automatically setup when connected to mobile App

> User ID number:

The Common Card/PIN User ID: 1~9988

Panic User ID: 9989~9990 Visitor User ID: 9991~10000

Fingerprint User ID (Only apply to card/PIN/ Fingerprint device)

10001~10100 or 10001~10500 or 10001~10880

> PIN: Can be any 4~6 digits

> Proximity Card: 125KHz EM card or 13.56MHz Mifare card

1- Change Admin

Press '1' to enter Change Admin.

Menu No.	Setting	Note
1	Change Admin	New Admin can be any 6 digits

2-User Setting

Press '2' to enter User Setting.
Press ▼ to select and long press # to confirm.

Menu No.	Setting	Note
1	Add Directly	Add users directly by inputting PIN/ card
2	Add by ID	Add users by user ID. The common user ID is between 1~9988, panic User ID is 9989~9990. Fingerprint User ID (Only apply to card/PIN/Fingerprint device) is 10001~10100 or 10001~10500 or 10001~10880.
3	Add Visitor	- Visitor user ID is between 9991~10000
		- Add visitor card: ID# (1~9)# (read card)
		-Add visitor PIN: ID# (1~9)# (PIN)#
		1~9 means times of usage.
4	Block Enrol	Choose the 1st IDSet Card Number (can
		set 1~200) Read the 1st number card
5	Del Directly	- Enter PIN or card to delete user directly
6	Del by ID	- Delete users by inputting user ID
7	Del All User	- Delete ALL users

3- Door Setting

Press '3' to enter Door Setting.
Press ▼ to select and long press # to confirm.

Menu No.	Setting	Note
1	Open Time	- Open time can be set to 0~100s
		Input 0~100, long press # to confirm.
		- Factory default is 5s
2	Access Mode	Access Modes can be set to: Card/ PIN device: 1 Card, 2 PW, 3 Card/PW, 4 Multi User (max.9) Card/ PIN/ Fingerprint device: 1 Card, 2 PW, 3 Fingerprint, 4 Card/PW/Fp, 5 Multi User (max.9)
3	Alarm Time	- 1 OFF (Factory default)
		- 2 1min
		- 3 2min
		- 4 3min
4	Door Contact	- 1 OFF (Factory default)
		- 2 ON
5	Security Mode	- 1 OFF (Factory default)
		- 2 LOCK Dead
		The device will become 'access deny' for 10
		minutes after 10 failed entry attempts.
		Restart the device to back to normal.
		- 3 Alarm Mode The device will alarm after 10 failed entry attempts. Alarm time depends on the device alarm time (refer to Door Setting Menu No. 3 Alarm Time),enter Master Code # or valid user card/PIN to silence.

6	Interlock	- 1 OFF (Factory default)
		- 2 ON
		Connection Diagram please refer to page 12
7	Collect Card	- 1 OFF (Factory default)
		- 2 ON
		After this function is turned ON, all cards can
		open the lock, at the same time, the card is
		added to the device.
8	WG FMT	- 1 Check OFF
		- 2 Check ON (Factory default)
		Check means Parity Bit
		- 3 4bits (Factory default)
		- 4 8bits
		- 5 10bits (VirNum)
		- 6 ID: 26
		Wiegand format for EM card can be set to
		26~44.
		- 7 IC: 34
		Wiegand format for Mifare card can be set to
		26~58.
9	Working Mode	Controller (Factory default)

4- Other Setting

Press '4' to enter Other Setting.
Press ▼ to select and long press # to confirm.

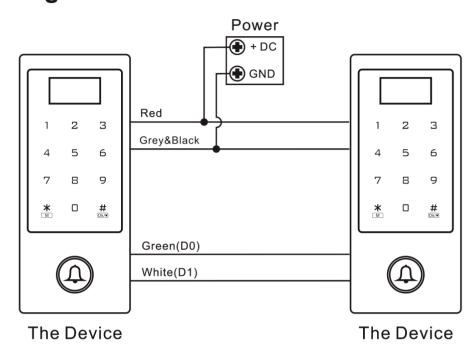
Menu No.	Setting	Note
1	Sound	- 1 OFF
		- 2 ON (Factory default)
2	Red Led	- 1 OFF
		- 2 ON (Factory default)
3	Keys Backlight	- 1 OFF
		- 2 ON
		- 3 Auto (Factory default)
		Automatic OFF after 20 seconds, it will go
		ON by pressing any key (this key isn't taken
		Into considerations).
4	OLED Backlight	- 1 ON
	Backlight	- 2 5S
		- 3 10S
		- 4 30S (Factory default)
		- 5 1min
5	5 Unbind Machine	- Unbind the device with Bluetooth.
		- Long press # to confirm Unbind, the device
		will back to main interface after unbinding
		successfully.
6	Copy Users	Connection diagram please refer to page 11
7	Factory Reset	Reset to factory default, the user's
		information is still retained.

ADVANCED APPLICATION

User Information Transfer (Valid for Card/ PIN device)

The device supports the User Information Transfer function, and the enrolled user (cards, PINs) can be transferred from one (let's name it Master Unit) to another (let's name it Accept Unit).

Connection Diagram:



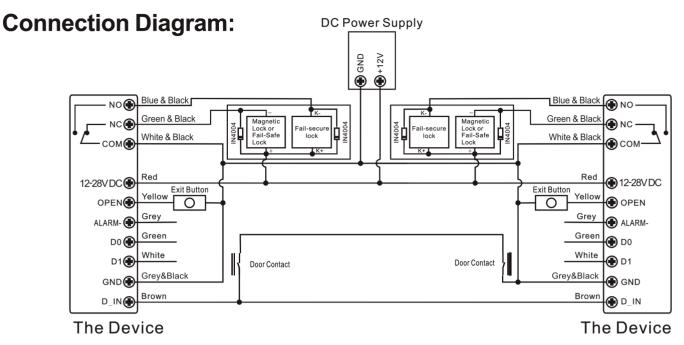
Remarks:

- > The Master units and Accept units must be same series devices.
- > The Master Code of the Master Unit and the Accept Unit must be set to the same.
- > Program the transfer operation on Master Unit only.
- > If the Accept Unit is already with the users enrolled, it will be covered after transferring.
- > For full 10000 users enrolled, the transfer takes about 5 minutes.

Set Transferring on Master Unit: Menu 4 Other Setting--- 6 Copy User

Interlock

The device supports the Interlock Function. It is of two Devices for two doors, and mainly used for banks, prisons, and other places where a higher level security is required.



Remarks: The Door Contact must be installed and connected as the diagram. Let's name the two Devices as "A "and "B" for two doors "1" and "2"

Step 1:

Enroll the users on Device A, then transfer the users' information to Device B by 'User Information Transfer' function (Page 111)

Step 2:

Set both of the two Devices (A and B) to Interlock function Menu 3 Door Setting --- 6 Interlock

If enable interlock, when and only door 2 is closed, the user can read the valid fingerprint/card or input PIN on Reader A, door 1 will open; then when and only door 1 closed,read valid fingerprint/card or input PIN on Reader B, door 2 will open.

SOUND AND LIGHT INDICATION

Operation Status	LED	Buzzer
Stand by	Red light bright	_
Enter into programming mode	Red light shines	One beep
In the programming mode	Orange light bright	One beep
Operation error	_	Three beeps
Exit from the Programming mode	Red light bright	One beep
Open lock	Green light bright	One beep
Alarm	Red light Shines quickly	Beeps



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