Manuals+

Contents

HDWR Global AC600 RFID Access Control Reader

Specifications

- Warranty: 1 year
- Product type: RFID card, password and fingerprint access control reader
- Material: metal
- Processor: 32-bit microprocessor with ARM core
- Operating frequency: 125 kHz
- Max number of employees in the database: 10,000
- Max. number of fingerprints in the database: 600
- Supported RFID cards: EM
- Verification Type: RFID Card, Password, Fingerprint
- Access control: yes
- Interface: Wiegand 26/34
- Working Voltage: DC 12-24V
- Operating Current: ≤100mA
- Standby Current: ≤35mA
- Ingress Protection: IP68
- Keyboard and keys: touch keyboard
- Operating Temperature: 0%~95%
- Operating Humidity: 5 to 95%
- Product dimensions: 13.9 x 5.6 x 2 cm
- Package dimensions: 19.3 x 12.6 x 6 cm
- Product weight: 500 g
- Product weight with packaging: 900 g

Set contents

- RFID Access Control System
- Screws and mounting pins
- Allen key
- Manual

Features

- The access control reader offers user verification through an RFID card, individual password and fingerprint
- Ability to set a single verification method or a combination of several methods
- IP68 rating ensures water resistance, so the device can be installed outdoors
- The maximum capacity of users in the database is as much as 10,000, which makes the reader ideal equipment for large companies
- 126 kHz operating frequency and Wiegand 26 and Wiegand 34 interface
- Possibility to connect the reader with a time and attendance recorder, electronic and electromagnetic door lock, intercom, videophone and other external devices with DC 12-24V voltage

Introduction

The product in this series is a new generation of multifunctional autonomous access control. It uses a 32-bit

microprocessor with an ARM core, which is efficient, stable and reliable. It includes reader mode and stand-alone access control mode, etc. Widely used in various situations, such as offices, residential communities, villas, banks, etc.

Installation

- Remove the back cover of the device using the special screwdriver provided.
- Drill 2 holes in the wall for self-tapping screws and 1 hole for wire.
- Insert the provided rubber plugs into the two holes.
- Secure the back cover to the wall using 2 self-tapping screws.
- Pull the cable through the cord hole.
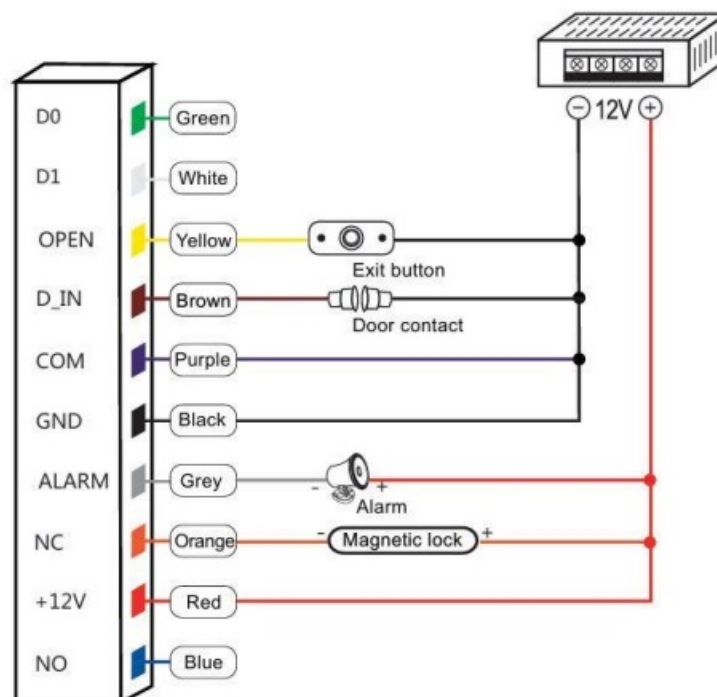- Attach the keyboard to the back cover. (See figure below.)
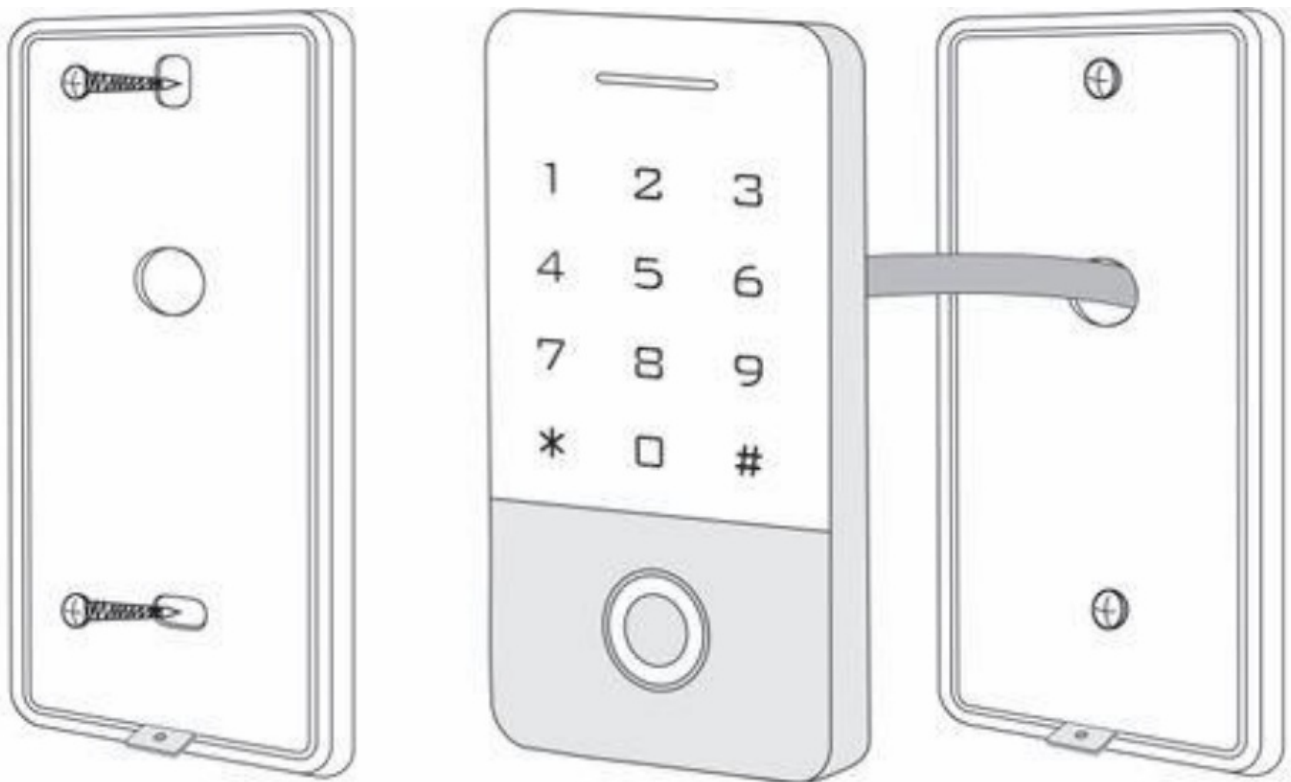
Wiring Diagram

No.	Color	Marks	Description
1	Green	D0	Wiegand input (Wiegand output as reader mode)
2	White	D1	Wiegand input (Wiegand output as reader mode)
3	Grey	ALARM	Alarm signal MOS tube drain output end (optional)
4	Yellow	OPEN（BEEP）	Exit button input end (Beeper input as reader mode)
5	Brown	D_IN（LED）	Door contact switch input (LED input as reader mode) (optional)
6	Red	+12V	Positive power supply or AC power supply end
7	Black	GND	Negative power supply
8	Blue	NO	Relay NO end
9	Purple	COM	Relay COM end
10	Orange	NC	Relay NC end

Drawing Connection Diagram

1. Shared power supply

Remark. Door contact and alarm function are optional.

2. Special power supply

Reader	Wire		
D0	Green		
D1	White		
OPEN	Yellow	Exit button	Electric control lock − +	NO
D_IN	Brown	Door contact		COM
COM	Purple		Magnetic lock − +	NC
GND	Black			GND
ALARM	Grey	Alarm − +		12V
+12V	Red			
NO	Blue			PUSH
NC	Orange			
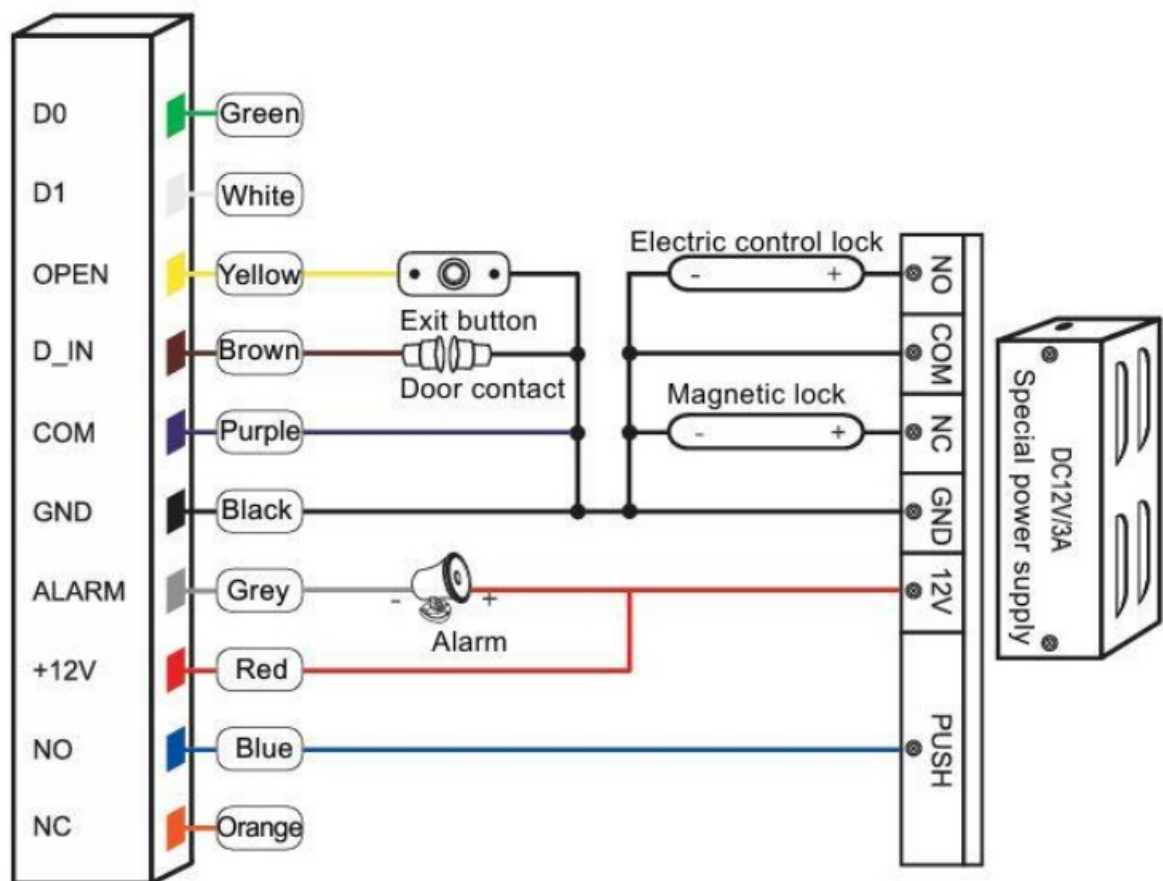
Remark. Door contact and alarm function are optional.

3. Reader Mode

D0	Green		D0
D1	White		D1
ALARM	Grey		
OPEN(BEEP)	Yellow		BEEP
D_IN(LED)	Brown		LED
+12V	Red		12V
GND	Black		GND
NO	Blue		
COM	Purple		
NC	Orange		

Access controller
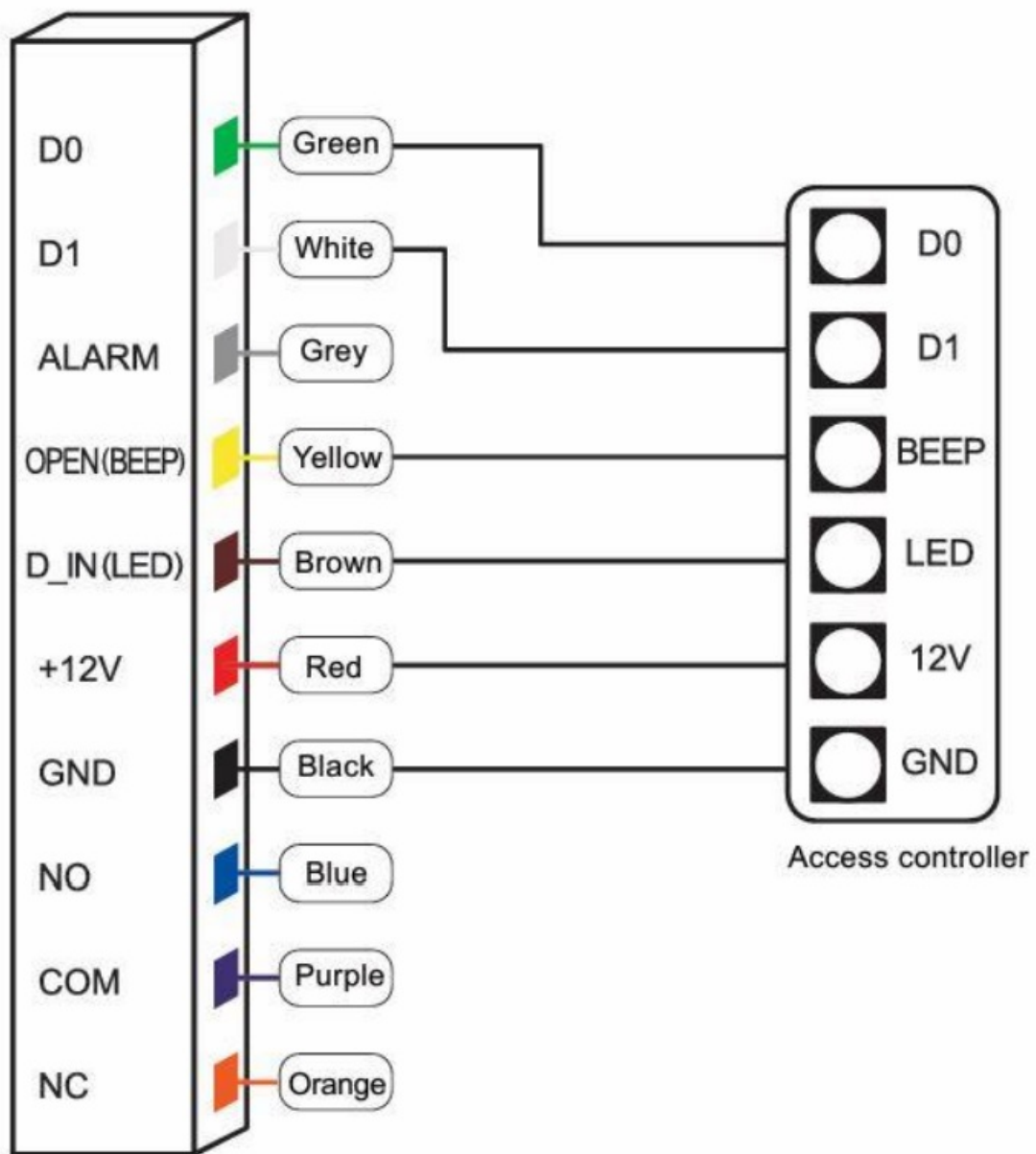
Sound and light signalling

Operation status	Light signal	Beep
Ready for action	Red	
Operation successful	Green	One longer beep
Operation failed		Three short signals
Starting the programming mode via the administrator tab		Two short signals
Disabling Programming Mode via Admin Tab		One longer beep
Pressing the number button		One short beep
Press the * button		One long beep
Enter your access code	Red LED flashes slowly	
Card reading in card plus code mode	Red LED flashes slowly	
Multi-user card reading	Red LED flashes slowly	
Entering Programming Mode	Red LED flashes slowly	
Enable Settings Status	Orange	
Unlock	Green	
Audible alarm	The red LED flashes quickly	Alarm

Admin Menu – Standalone Mode Settings

Device Management

Entering Programming Mode	Menu	Stages of action	Description	Default	
	00	New admin code # new admin code #	Change the admin code	999999	
	01	Card	Add an		
		reading/fingerprint	admin card		
		input	or fingerprint		
		twice*			
	02	Card	Remove an		
Press * Admin Code# (By default, the		reading/fingerprint input twice*	admin card or fingerprint		
		0#	Reader Mode		
admin code is "999999")	03	1#	Self- contained access control mode	1	
		2#	Switching		
			relay mode		
	08		WIFI Matching	Optional	
	09	Unlock code # (4-	Access code		
		6 digits)			

Add and remove users

Entering Programming Mode	Menu	Stages of action	Description	Default
Press * Admin Code# (By default, the admin code is „999999")	11	Card reading / double fingerprint entry...*	Continuous addition of card users or fingerprints	„..." Means repetition Previous Operation Press* to exit.
		Entering the 8 or 10 digit card number # ...*	Add card users by card number	
		Entering the ID number, reading the card, entering the fingerprint times ...*	Add card or fingerprint users by a specific ID	
		Enter ID number # enter 8 or 10 digit card number # ...*	Add cardholders by specific ID and card number	
		Enter ID number # enter code # ...*	Add independent user code by a specific ID number	
	12	Read user card, enter the first fingerprint twice, enter the second fingerprint twice	Matching Fingerprints to Card (Maximum of 2 Fingerprints)	
	13	Enter ID number # Enter 8 or 10 digit card number # Enter number of cards #	Adding a master card with a number	

	Delete users			
	21	Card reading/fingerprint input ...*	Remove card users by read card / Delete fingerprints by entering a fingerprint	„..." Means repetition Previous Operation Press* to exit.
		Please enter your 8 or 10 digit card number...*	Delete card users by card number	
		Enter ID number #	Delete users by ID	
	20	000#	Delete all users	

Entering Programming Mode	Menu	Stages of action	Description	Default
Press *Admin Code# (By default, the admin code is „999999")	31	0 #	Door locked	4
		1 #	Code only entry	
		2 #	Card-only entry	
		3 #	Entry via card + password or fingerprint + code	
		4 #	Entry by card, fingerprint or code	
		5 #	Fingerprint-only entry	
		6 #	Fingerprint + card entry	
		7 #	Multi-fingerprint/multi-card entry	
	32	1#	Door opening setting via 1 user card/ fingerprint	1
		2-10 #	Door opening setting by 2-10 user cards/fingerprints Fingerprints	

Advanced settings

Entering ProgrammingMode	Menu	Stages of action	Description	Default
Press *Admin Code# (By default, the admin code is„999999")	41	(0-300) #	Door open time range: 0-300s,0 equals50ms	5
	42	0 #	Alarm time setting, 0s means noalarm	0
		(1-99) #	Alarm Time Range : 1-99min	
	61	0#	Normal Operating Mode	0
		1#	External alarm and built-in buzzer will work if incorrect operations are repeated 5times.	0

		2#	The device will be locked for 10 minutes if incorrect operations are performed 5 times	
	62	0#	LED Off	1
		1#	LED Switching On	
	63	0#	Turning off keyboard backlighting	1
		1#	Turning on the keyboard backlight	
		(2-99) #	Keyboard backlight time: 2-99 sec.	
	64	0#	Sound off	1
		1#	Sound on	

Reader mode settings

Entering ProgrammingMode	Menu	Stages of action	Description	Default
Press *Admin Code # (By default, the admin code is "999999")	00	New AdminCode #	Change theadmin code	999999
	01	Card reading/ double inputFingerprint*	Add an administrator card orfingerprint	
	02	Card reading/ double inputFingerprint*	Remove an administrator card orfingerprint	
	03	0#	Reader Mode	1
		1#	Stand-alone accesscontrol mode	
		2#	Switchingrelay mode	
	11	Enter your fingerprinttwice…*	Adding user fingerprintscontinuously	"…"means to repeat the previous operation, Press * to exit. to exit.
		Enter the ID number # Enter your fingerprinttwice…*	Add user fingerprints by specific ID number	
	21	Enter your fingerprint once…* Enter the secondfingerprint…*	Removing user fingerprints continuously	
		Tap ID number #…*	Delete users by a specificID number	
	20	0000#	Delete allusers	

	42	0#	Alarm time setting, 0s means noalarm	0
		(1-99) #	Alarm Time Range: 1-99min	
	51	(0-255) #	Set the devicenumber	0
	52	(26-58) #	Wiegand Output:26-58bits	26
	53	0#	Keyboard transmissionformat 4 bits	0
		1#	8-bit keyboard transmission format	
		2#	Virtual card output number	

Admin card support

Read added admin card -> Read first user card -> Read second user card -> … -> Read admin card again

Note: The add tab is used to add tab users continuously and quickly. When reading the card for the first time, you will hear a short beep twice and the LED will illuminate orange. This means that user addition programming has been introduced.
When you read the administrator card again, you will hear a long, single beep and the LED will turn red. This means you exit the user addition program.

Delete a card

Read Delete Admin Card -> Read First User Tab -> Read Second User Tab -> … -> Read Admin Tab Again

Note: The Delete Card feature is used to continuously and quickly delete user cards. When reading the administrator card, you will hear a short beep twice and the LED will light up amber, indicating that the user has been removed.
When you read the administrator card again, you will hear a long, single beep and the LED will turn red, indicating that you are out of the user delete settings program.

User support

1. **Change your user code with a card**

   Press * -> read card -> enter old code # -> enter new code # -> re-enter new code #

   Remark. The default code "1234" of the matching card cannot open the door unless you change the other

   codes.

2. **Changing the user passcode with your fingerprint**

   Press * -> Enter fingerprint -> Enter old code # -> Enter new code # -> re-enter new code #

   Remark. The default "1234" code of the matching fingerprint cannot open the door without changing other

   codes.

3. **Changing the user code with the ID number**

   Press * -> enter ID number # -> enter old code # -> enter new code # -> re-enter new code #

   Remark. The ID number must be known to the administrator before changing the code, the user code cannot be

   the default code "1234".

Other operations

1. **Alarm Off**

   Read admin card or read valid user card or enter fingerprint or type admin code # Remark. When the alarm is

   activated, the user can turn off the alarm by reading the registered card or entering the registered fingerprint or

   administrator code.

2. **Factory reset**

   Users can restore the factory default settings if they forget the admin code or modify the default settings.

   To restore the device to factory settings, turn off the power, press and hold the # button or the exit button

   continuously, turn on the power, release the # button or the exit button until you hear a double beep. The admin

   code will be reset to the default code, which is 999999.

   Remark. Registered user data will not be deleted after a factory reset.

FAQ

- **Q: How do I add a new admin code?**

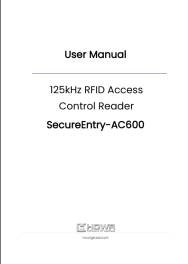 A: In Standalone Mode Settings, enter # followed by the new admin code.

- **Q: How can I add or remove card users?**

  A: While in Programming Mode, follow the instructions to add or remove card users as outlined in the manual.

- **Q: What is the default admin code?**

  A: The default admin code is 999999.

Documents / Resources

User Manual 125kHz RFID Access Control Reader SecureEntry-AC600 HDWR	**HDWR Global AC600 RFID Access Control Reader** [**pdf**] User Manual AC600 RFID Access Control Reader, AC600, RFID Access Control Reader, Access Control Reader, Control Reader

References

- **User Manual**