

User Manual

125 kHz Card and Password Access Controller

SecureEntry-AC400

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Specifications:

- **Warranty:** 1 year
- **Reading Distance:** 5-10cm
- **Device Type:** 32 bit ARM
- **Verification Type:** RFID Card, Password
- **Operating frequency:** 125 kHz
- **Type of cards read:** EM
- **Response Speed:** Less than 0.2 seconds
- **Communication Distance:** 100m
- **Data transfer:** real-time
- **Light signal:** built-in LED (bi-color LED)
- **Beep:** Built-in speaker (buzzer)
- **Audio-visual indication:** when the registered card is placed against the reader, the red LED flashes green and a beep sounds
- **Keyboard and keys:** touch keyboard
- **Resistance:** protection against water ingress
- **Voltage:** DC 9V - 16V, standard 12DC
- **Operating Current:** 70mA
- **Interfejs:** Wiegand 26 output
- **Operating Temperature:** -25° C - 75° C
- **Operating Humidity:** 10%-90%
- **Product dimensions:** 12.3 x 8.4 x 2.3 cm
- **Package dimensions:** 18.5 x 13.9 x 5.5 cm
- **Product weight:** 200 g
- **Product weight with packaging:** 400 g

Set contents:

- Access Control Reader with Wires
- Manual

Features:

- The reader offers access by reading an RFID card with a frequency of 125 kHz or by means of an individual password.
- Made of durable materials and waterproof housing, the device can be mounted outdoors.
- The device is perfect for a wide variety of environments, such as companies, institutions, as well as private homes, making it a versatile solution for a wide range of users.
- The reader is equipped with a two-color LED and an audible signal that informs about the authorization status, making it easier for users to understand the current access status
- Thanks to the Wiegand 26 Output interface, the reader can be connected to external devices to form an access control system.

Factory default settings

Default password	123456	Access password	lack
Backlight	auto (optional)	Actual Output Unlock	5 seconds
Port W26	Input (Optional)	Safe Mode	Disabled
Opening Mode	Access card or password The access password includes a private access password (PLN) and a common access password		

Light and sound signal

Red and green LED

LED Description	Access Control Status
Red LED flashes every 1 second (slow flashing)	Stop Mode
Red LED on all the time	Programming mode
Green LED on all the time in open mode	Unlock Mode
Green LED flashes every 0.5 seconds (fast flashing)	Waiting for further actions

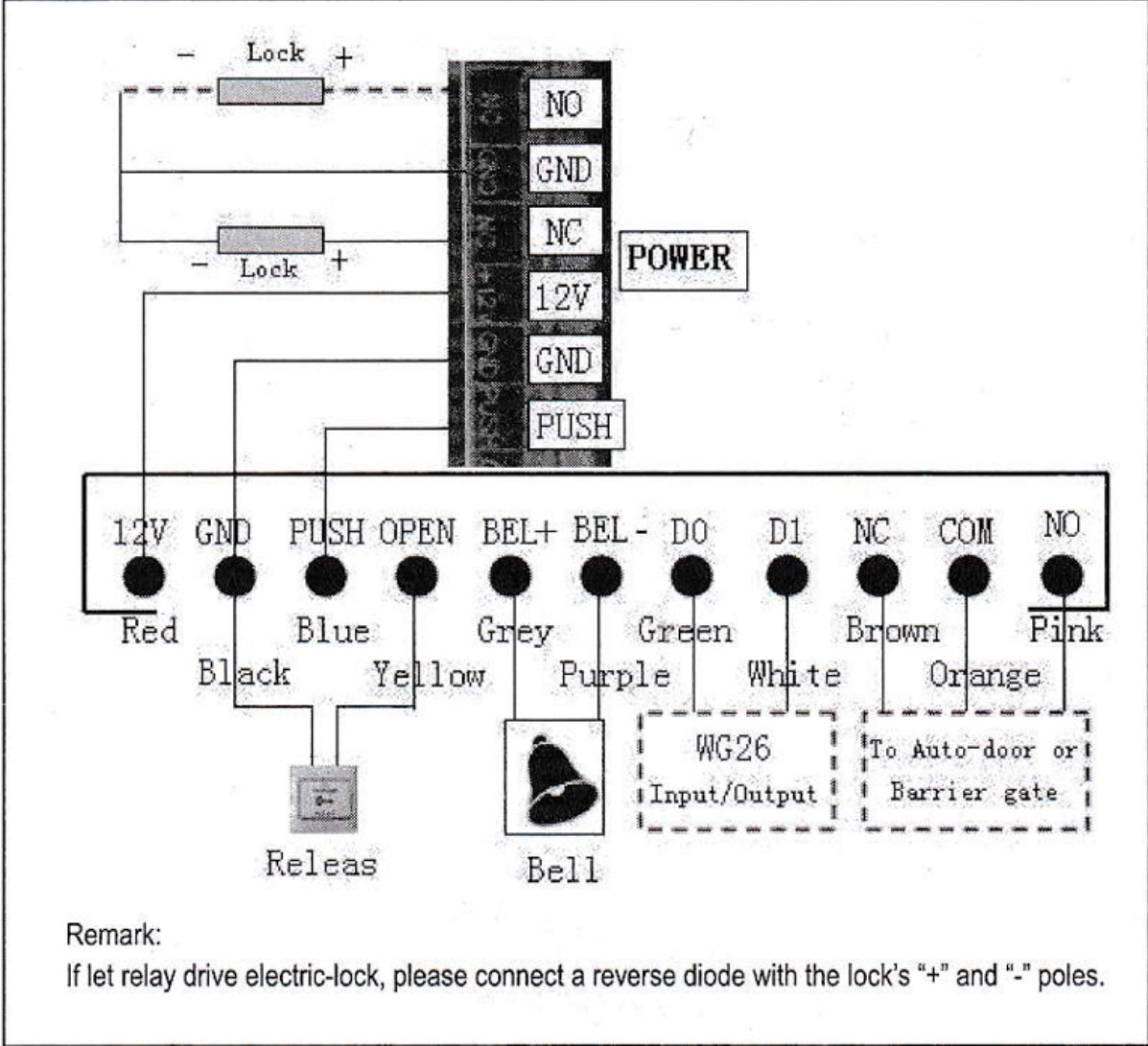
Buzzer

Description	Meaning
1 short beep	valid input
3 short signals	Invalid input
1 long beep	Success of saving settings
Continuous long signal	Restoring Factory Programming Passwords

Device Connection

Number	Designation	Colour	Function
1	+12V	Red	MOC+
2	GND	Black	POWER-
3	PUSH	Blue	Low Output Signal
4	OPEN	Yellow	Unlocking the door
5	BEL+	Grey	Bell
6	BEL-	Violet	Bell
7	DATA0	Green	BY DATE0
8	DATE1	White	BY DATE1
9	NC	Brown	NC relay output
10	COM	Orange	COM relay output
11	YES	Pink	Relay output NO

Connection Diagram



Programming Guide

Purpose	Operation	Comments
Basic functions		
Changing the programming password	# Programming password # 0 new programming password #	If the programming password is lost, follow the steps in 1.1 to reset to factory settings (123456).
Adding a user card	# Programming password #1 card reading #	If you add multiple tabs, read the tabs continuously.
Set a common access password	# Programming password #21 new common access password #	There is only one common access password. Opening Method: Shared Access Password #
Delete all users	# Programming password #40 0000 #	Removes all cards and PINs except the programming password.
Delete a user using a card	# Programming password #41 read card #	If you delete multiple tabs, read the tabs continuously.
Extended features		
Add a private access password (PIN)	# Programming password # 22 PIN #	PIN can be remultiple, unlock method: PIN #
Adding a card via card number	# Programming password #23 enter card number #	The card number is a 10-digit or 8-digit automatic identification by the system.
Adding multiple cards by card zone number	# Programming password # 24 number of cards # card number (e.g. 0020)	The number of cards is a 4-digit code (if you add 20 cards at once, enter 0020).
Adding "card + PIN"	# Programming password #3 read PIN card #	If you're modifying the PIN, see 1.4
Deleting a user by ID number	# Programming password #42 enter user ID number #	For more information about the ID number, see section 1.3.
Deleting a user by card number	# Programming password #43 enter card number #	The card number is a 10-digit or 8-digit automatic identification by the system.
Delete a user by PIN	# Programming password #44 enter PIN #	The PIN consists of 3-6 digits.
Delete all PIN users	# Programming password #45 #	Used for PIN users. Excludes card users and the "Card + PIN" combination.
Changing the opening time	# Programming password # 5 XX #	XX can be 2-digit and the maximum value is 99. If the value is 1, the output signal time is 0.2 seconds.
Open Mode Setting	# Programming password #6 X #	X can be 1 (card only) / 2 (card or access password) / 3 (card + PIN).

Reader Setting (Optional)	# Programming password #7 XX #	The device can be used for reading (W26 format).
Security feature settings	# Programming password # 8 XX #	XX can be 01/02 (Safety Function On/Off) and 03/04 (Tamper Alarm On/Off).
Backlight Setting (Optional)	# Programming password # 8 XX #	XX can be 01/02/03 (Normal Power Off / Normal Power On / Auto).
Factory reset	# Programming password #9 #	Except for the programming password and the manager card.
Setting up a manager card	# Programming password #91 read MAC # read MDC #	The first card read is the adding manager card, the second is the removal manager card.

1.1 Resetting to the Factory Programming Password (123456)

1. **Step 1:** Turn off the power and connect pins 2 and 3 of the RST connector (S1).
2. **Step 2:** Turn on the power – the buzzer will beep three long times and the green LED will flash rapidly.
 - If you want to set a manager tab, read the two blank tabs.
 - The first card will be set as **Manager Add Card**
 - The second card as **Manager Delete Card** – deleting the manager card (with a red LED and short buzzer signals).
3. **Step 3:** Turn off the power, disconnect pins 2 and 3, and connect pins 1 and 2 of the RST connector.
4. **Step 4:** Turn the power back on.

After these steps are completed, the programming password will be reset to the default value (123456).

1.2 How to use the manager card – MAC (Adding a Manager Card) & MDC (Removing the Manager Card)

- To add a card user in standby mode:
[read MAC] [read new cards] [read MAC]
- To remove a card user in standby mode:
[read MDC] [read registered cards] [read MDC]
- To remove all standby users:
[read MDC] [read MAC] [read MDC] [read MDC]

Note: User cards can be added or removed continuously.

1.3 Adding a User ID Number

The user ID number is automatically generated as a 4-digit number, starting with 0001. The number increases as you add more users one at a time, and doesn't change when you delete users. The shared access password does not have an ID number assigned to it.

1.4 How to change PIN (card + PIN opening mode set)

After reading the card and entering the corresponding PIN to open the door, **hold the [#] for a long time** within 5 seconds until the green LED flashes rapidly. Then enter:

[new PIN] [#] [new PIN] [#]

If the new PIN has been successfully changed – this will be confirmed by a long beep.