

ASHATA ASHATAfhucmg6xgw-02

ASHATA IC Card Reader Writer User Manual

Model: ASHATAfhucmg6xgw-02

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the ASHATA IC Card Reader Writer, Model ASHATAfhucmg6xgw-02. Please read this manual thoroughly before use to ensure proper functionality and safety.

The ASHATA IC Card Reader Writer is an IP65-rated metal access controller designed for single entry doors. It supports up to 15,000 users and offers multiple authentication methods including card, password, and card with password. It features Wiegand output/input for integration with other access control systems and includes functions for an exit button and doorbell input.

2. PRODUCT FEATURES

- **ID/IC Card Reader Writer:** IP65 metal stylish access controller.
- **User Capacity:** Supports up to 15,000 users.
- **Frequency Support:** IC Frequency: 13.56MHz; ID Frequency: 125KHz (Optional).
- **Authentication Methods:** Supports card, password input via touch keyboard, and card with password for enhanced security.
- **Wiegand Output/Input:** Compatible with external Wiegand readers or for accessing card readers.
- **Multi-Function Device:** Includes exit button and doorbell input functions.
- **Application:** Suitable for automatic office spaces, industrial and mining enterprises, government agencies, intelligent communities, and telecommunications base stations.

3. SPECIFICATIONS

Feature	Detail
Brand	ASHATA
Model Number	ASHATAfhucmg6xgw-02

Feature	Detail
Working Voltage	DC 12V
Working Current	<100mA (Door machine only)
Environmental Temperature	-20°C to 60°C
Card Type	Mifare one card or EM card
Read Distance	1-15 CM
User Capacity	15,000
Connectivity Technology	Wired
Control Method	Touch
Item Weight	0.38 Kilograms (approx. 13.4 ounces)
Included Components	Access Control Unit, 10 x Access Cards, 1 x Access Management Card
UPC	724316384806, 724316384547

4. SETUP AND INSTALLATION

4.1 Package Contents

Before installation, ensure all components are present:

- ASHATA IC Card Reader Writer Unit
- 10 x Access Cards (Key Fobs)
- 1 x Access Management Card



Image: The ASHATA IC Card Reader Writer unit shown with the included 10 blue access key fobs and one orange management key fob.

4.2 Installation Steps

1. **Prepare Wiring:** Open the lock wire. Connect the normally closed (NC) signal to the "SS" terminal. This will output a signal for 5 seconds. If no NC signal is used, connect to the "IS" terminal. Refer to the wiring diagram for detailed connections.
2. **Wiring:** Connect all necessary wires according to the provided wiring diagram.
3. **Mounting:** Install the card reader unit onto its bracket after completing all wiring.
4. **Power On:** Apply power to the device.
5. **Initial Setup:** After powering on, proceed to add user cards using the Management Card as described in the 'Operating Instructions' section.



Image: Rear view of the ASHATA IC Card Reader Writer, illustrating the wiring connections and product label.

4.3 Wiring Diagram for Electric Lock

The output signals from this access controller are Wiegand signals, which can drive electric locks, automatic doors, and other compatible devices. For specific wiring methods tailored to your setup, please consult your supplier or a qualified technician.

Image: Wiring diagram for connecting the ASHATA IC Card Reader Writer to an electric lock and other components. Key connections include 12V (Red), GND (Black), OPEN (Brown), D0 (Green), D1 (White), COM (Blue), and NC (Grey).

5. OPERATING INSTRUCTIONS

5.1 Indicator Light Status

Operation Status	Indicator Light	Buzzer
Standby Status	Red light slow flash	None
Card Added	Green light fast flash	Beep
Invalid Card	Red light slow flash	Beep-beep-beep
Card Removed	Red light slow flash	None

5.2 Lock Opening Time Setting

- To set the relay action for **1 second (default)**, connect the circuit board's S2 terminal to "IS".
- To set the relay action for **5 seconds**, connect the circuit board's S2 terminal to "SS".

5.3 Adding and Deleting Users via Management Card

The management card is specific to this machine. Do not use it with other devices.

1. Add User Card:

- Ensure the device is in standby status (red light slow flash).
- Swipe the **Management Card** (green light fast flash).
- Swipe the **User Card** you wish to add (continuous beeps after a single beep).
- Swipe the **Management Card** again to exit the adding mode.

2. Delete User Card:

- Ensure the device is in standby status.
- Swipe the **Management Card**.
- Place the **User Card** you wish to delete in the reader area for 5 seconds (red light fast flash).
- Swipe the **Management Card** again to exit the deletion mode.

3. Delete All Users:

- **Method 1 (Power Cycle with DEL button):**
 - a. Power off the device.
 - b. Remove the metal bottom plate.
 - c. Press and hold the **DEL button** for 2-3 seconds.
 - d. While holding DEL, power on the device. It will beep continuously for 30 seconds, then beep once.
 - e. Release the DEL button. All user data is cleared.
- **Method 2 (Management Card):**
 - a. Ensure the device is in standby status.
 - b. Swipe the **Management Card**.
 - c. Place the **Management Card** in the reader area for 5 seconds. The machine will beep once, then beep continuously for a long time. The display will show "Management Card".

- d. Remove the **Management Card** to exit. All user data is cleared.



Image: A user presenting an access key fob to the ASHATA IC Card Reader Writer for authentication.

6. MAINTENANCE

6.1 General Care

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods, even though it is rated for -20°C to 60°C.
- Ensure all wiring connections remain secure.

6.2 IP65 Waterproof Rating

The device has an IP65 waterproof rating, meaning it is protected against dust ingress and low-pressure water jets

from any direction. While it can withstand outdoor conditions like rain, avoid submerging it in water or exposing it to high-pressure water streams.



Image: The ASHATA IC Card Reader Writer installed outdoors, demonstrating its IP65 waterproof design in rainy conditions.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

- **Device not powering on:**
 - Check the 12V DC power supply connection.
 - Ensure all power wires are correctly connected and secure.
- **Card not recognized (Invalid Card beep):**
 - Ensure the card is a compatible Mifare one or EM card.
 - Verify the card has been properly added to the system using the Management Card.
 - Check for any physical obstructions or damage to the card or reader surface.

- **Door not unlocking:**

- Confirm the card is valid and recognized by the reader (green light, single beep).
- Check the wiring to the electric lock. Ensure it is correctly connected to the OPEN/NC/COM terminals.
- Verify the lock opening time setting (S2 terminal connection).
- Ensure the electric lock itself is functioning correctly.

- **Management Card lost or needs reset:**

- **Step 1:** Power off the device.
- **Step 2:** Short-circuit the OPEN (brown) and GND (black) wires on the 8P wiring port.
- **Step 3:** Power on the device. It will beep for a long time and then flash quickly.
- **Step 4:** Swipe a new, empty card. This card will be set as the new Management Card. The machine's red light will flash, and the buzzer will beep briefly.
- **Step 5:** Power off the device. Disconnect the OPEN and GND wires.
- **Step 6:** Power on the device. It should now be in normal operation, and the new Management Card is active.

8. MOD FUNCTION

The MOD function allows for specific operational modes:

- **MOD Status "1" (Default):** If there is no operation within 3 minutes, the system automatically outputs the lock status.
- **MOD Status "2":** The system automatically exits the card adding status. To re-enter card adding status, you must swipe the Management Card or power cycle the device.
- **MOD Status "3":** In card adding status, all cards (except the Management Card) will output door opening signals. This mode is useful for temporary access for visitors or in special circumstances.

9. DATA COPY FUNCTION

This function allows copying user data from one ASHATA IC Card Reader Writer (Machine A) to another (Machine B). Note that the data on Machine B will be overwritten.

9.1 Data Export (Machine A to Machine B)

1. Wiring Connection:

- Connect Machine A's D0 and GND terminals to Machine B's D0 and GND terminals.
- Connect Machine A's TX and RX terminals to Machine B's TX and RX terminals.
- *Note: Machine A does not require power during this step.*

Once connected, both Machine A and Machine B's red lights will flash slowly.

- #### 2. Initiate Copy:
- Place Machine B's **Management Card** in Machine B's reader area for 5 seconds. Both machines will beep three times simultaneously. Machine A's red light will flash quickly, and Machine B's green light will flash quickly for 30 seconds, then beep once. Machine B will then beep continuously, indicating successful data copy.
- #### 3. Complete Copy:
- Power off both machines. Disconnect Machine A's D0 and GND wires. The data copy is now complete.

10. IMPORTANT WARNINGS



Image: A warning graphic emphasizing the importance of reading the instruction manual.

Always read the product instructions carefully before use to ensure correct and safe operation of the device.

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