

XSDTS GL02

XSDTS GL02 Biometric Digital Lock User Manual

Model: GL02

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the XSDTS GL02 Biometric Digital Lock. Please read this manual thoroughly before installation and use to ensure proper functionality and security.

The XSDTS GL02 is a versatile 7-in-1 smart lock designed for frameless glass doors, suitable for offices, homes, hotels, and apartments. It offers multiple unlocking methods for enhanced convenience and security.

2. PRODUCT OVERVIEW

2.1 Key Features

- **7-in-1 Unlocking Methods:** 3D Facial Recognition, Tuya App (Mobile Phone), Fingerprint, Password, IC Card, Remote Control, Mechanical Key.
- **Fast Verification:** Password verification speed of 0.4 seconds.
- **High User Capacity:** Supports up to 100 fingerprints, 200 IC cards, and 200 passwords.
- **Power:** Powered by a 2600mAh lithium battery.
- **Operating Temperature:** -25°C to 65°C.
- **Applicable Doors:** Frameless glass doors (sliding doors, swing doors, double doors, single doors).
- **Applicable Door Thickness:** 10-12 mm.
- **Security Features:** Automatic locking, anti-peeping password.

2.2 Package Contents

Please verify that all components are present in the package:

- Front Panel x 1
- Rear Panel x 1
- Smart Card x 2

- Mechanical Key x 2
- Screw Kit x 1
- (Optional components may vary)

2.3 Product Diagram



Figure 2.3.1: Product Components Diagram. This image illustrates the front and back panels of the XSDTS GL02 lock, highlighting key components such as the facial recognition module, display screen, keypad, card verification area, doorbell, fingerprint reader, unlock button, battery compartment (2600mAh lithium battery), and USB port/keyhole. Dimensions are also indicated: 190mm height, 78mm width for the main unit, and 38mm width for the side panel.

3. SETUP AND INSTALLATION

Before installation, ensure your glass door meets the specified thickness (10-12 mm) and type (frameless sliding or swing door). Professional installation is recommended.

3.1 Door Compatibility



Figure 3.1.1: Door Type Compatibility. This image displays two common frameless glass door configurations: A) Double swing door (right opening) and B) Single swing door (right opening). The lock is designed to be installed on these types of doors, with the remote control pairing specifically suitable for these configurations.



Figure 3.1.2: Door Opening Direction Support. This diagram illustrates four different glass door opening configurations: A) Double opening (left), B) Single opening (left), C) Double opening (right), and D) Single opening (right). The lock supports both sliding and swing doors, and users should select the appropriate door opening direction during installation.

The lock is designed for frameless glass doors with a gap distance between 5-15mm. Ensure your door's specifications match these requirements.

3.2 Installation Steps (General Overview)

Detailed installation instructions are provided in the separate installation guide included with your product. This section provides a general overview.

1. **Prepare the Door:** Ensure the glass door is clean and free of obstructions.
2. **Mount the Front Panel:** Secure the front panel to the exterior side of the glass door according to the template.
3. **Mount the Rear Panel:** Secure the rear panel to the interior side, aligning it with the front panel.
4. **Connect Cables:** Carefully connect any internal cables between the panels.
5. **Install Battery:** Insert the 2600mAh lithium battery into the designated compartment.
6. **Test Basic Functionality:** Before programming, test the mechanical key and basic locking mechanism.

For visual guidance, XSDTS provides installation videos. Please contact customer support for access to these resources

after purchase.

4. OPERATING INSTRUCTIONS

The XSDTS GL02 offers multiple convenient ways to unlock your door.

4.1 Unlocking Methods



Figure 4.1.1: Multiple Unlocking Methods. This infographic visually represents the seven ways to unlock the XSDTS GL02 smart lock: 3D facial recognition, IC card unlock, password unlock, fingerprint unlock, mechanical key, mobile app control, and remote unlock.

4.1.1 3D Facial Recognition



Figure 4.1.2: 3D Facial Recognition. This image depicts the 3D facial recognition feature of the XSDTS GL02 lock, showing a stylized representation of a face being scanned by the lock's sensor for unlocking.

To use 3D facial recognition, stand directly in front of the lock at an appropriate distance. The lock will scan your face and unlock if a registered face is detected. Refer to the setup guide for registering facial data.

4.1.2 Fingerprint Unlock



Figure 4.1.3: Fingerprint Recognition. This image highlights the fingerprint recognition feature of the XSDTS GL02 lock, showing a finger placed on the sensor with a visual representation of the scanning process. It also notes a 99.9% single recognition success rate, resistance to wear for over 1 million uses, and a rapid recognition speed of less than 0.5 seconds.

Place your registered finger firmly on the fingerprint sensor. The lock will unlock upon successful verification (typically less than 0.5 seconds). Ensure your finger is clean and dry for optimal performance.

4.1.3 Password Unlock

Enter your registered password on the keypad, followed by the '#' key. The lock supports anti-peeping password entry, allowing you to enter random digits before or after your actual password to prevent others from guessing it.

4.1.4 IC Card Unlock



Figure 4.1.4: IC Card Unlock. This image shows a hand holding an encrypted smart IC card near the XSDTS GL02 lock, indicating its use for unlocking. The text emphasizes that the card uses dynamic encryption technology and does not retain copies for enhanced security. Present a registered IC card to the card reader area on the lock. The lock will verify the card and unlock. The encrypted smart IC cards provide enhanced security.

4.1.5 Tuya App Control (Remote Unlock & Temporary Passwords)

Conexão WIFI/Senha temporária Gerenciamento de aplicativos inteligentes Desbloqueio remoto

*Quando um visitante toca a campainha, você pode desbloqueá-la remotamente por meio do aplicativo inteligente Tuya.



Figure 4.1.5: Tuya App Integration. This image illustrates the smart lock's integration with the Tuya app, enabling WiFi connectivity, temporary password generation, smart app management, and remote unlocking. It shows a smartphone displaying the Tuya app interface for remote control.



Figure 4.1.6: Remote Unlock via Tuya App. This image demonstrates the remote unlock capability through the Tuya smart app. It highlights that when a visitor presses the doorbell, you can remotely unlock the door using the app, showing a smartphone with the unlock interface.

Download the Tuya Smart app on your mobile phone and pair it with your lock via Wi-Fi. Through the app, you can:

- Remotely unlock the door from anywhere.
- Generate temporary passwords for guests or service providers.
- Manage user access (add/delete fingerprints, cards, passwords).
- Receive notifications when the doorbell is pressed, allowing remote unlocking.

4.1.6 Remote Control (Optional)

If your package includes a remote control, ensure it is paired with the lock. Press the unlock button on the remote control to open the door. This method is suitable for specific door configurations as shown in Figure 3.1.1.

4.1.7 Mechanical Key

In case of emergency or battery depletion, the mechanical key can be used to unlock the door. Insert the key into the keyhole (usually located at the bottom of the lock) and turn to unlock.

4.2 User Management

Refer to the detailed programming guide for adding, modifying, or deleting users (fingerprints, passwords, IC cards, facial data) via the lock's interface or the Tuya app.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your XSDTS GL02 lock.

- **Cleaning:** Wipe the lock's surface with a soft, dry cloth. Avoid abrasive cleaners, solvents, or harsh chemicals that may damage the finish or electronic components.
- **Fingerprint Sensor:** Keep the fingerprint sensor clean and free of dirt or moisture. Use a soft, lint-free cloth to gently wipe it.
- **Battery:** The lock is powered by a 2600mAh lithium battery. Monitor the battery level indicator on the display. Recharge or replace the battery when it is low to avoid being locked out.
- **Environmental Conditions:** While designed for a wide temperature range (-25°C to 65°C), avoid exposing the lock to extreme moisture or direct sunlight for prolonged periods.
- **Firmware Updates:** Check the Tuya app periodically for any available firmware updates for your lock to ensure you have the latest features and security enhancements.

6. TROUBLESHOOTING

If you encounter issues with your XSDTS GL02 lock, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lock does not respond.	Low battery; Power failure.	Recharge the battery or use the mechanical key.
Fingerprint/Facial recognition fails.	Finger/face not properly positioned; Sensor dirty; Unregistered data.	Ensure proper positioning; Clean sensor; Re-register fingerprint/facial data.
Cannot connect to Tuya App.	Wi-Fi signal weak; Incorrect pairing procedure.	Ensure strong Wi-Fi signal; Follow app pairing instructions carefully.
Lock makes unusual noises.	Mechanical obstruction; Internal component issue.	Check for obstructions around the lock mechanism. If persists, contact support.

If the problem persists after trying these solutions, please contact XSDTS customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Model	GL02
Brand	XSDTS
Unlocking Methods	3D Facial Recognition, Tuya App, Fingerprint, Password, IC Card, Remote Control, Mechanical Key

Feature	Detail
Password Verification Speed	0.4 seconds
Door Gap Distance	5-15mm
User Capacity (Fingerprint)	100
User Capacity (IC Card)	200
User Capacity (Password)	200
Operating Voltage	Lithium Battery (2600mAh)
Operating Temperature	-25°C to 65°C
Applicable Door Types	Frameless glass doors (sliding, swing, double, single)
Applicable Door Thickness	10-12 mm
Material	Aluminum
Dimensions (L x W x H)	20 x 10 x 8 cm
Weight	2 Kilograms
Special Features	Automatic lock, Password unlock, Fingerprint, Rechargeable, Anti-peeping password

8. WARRANTY AND SUPPORT

8.1 Warranty Information

All XSDTS products come with a direct**12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use conditions.
Please retain your proof of purchase for warranty claims.

8.2 Technical Support

XSDTS provides unlimited technical consultation. Our team of certified XSDTS technicians is available to assist you via phone, chat, or video calls.
Additionally, installation, setup, and troubleshooting videos are available and will be provided to you after your purchase.
For support, please visit the official XSDTS website or contact our customer service hotline.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question