

NGTeco ML300

NGTeco ML300 Smart Biometric Fingerprint Door Lock User Manual

Model: ML300

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your NGTeco ML300 Smart Biometric Fingerprint Door Lock. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.

PRODUCT OVERVIEW

The NGTeco ML300 is a smart door lock offering multiple access methods for enhanced security and convenience. It features biometric fingerprint recognition, a keypad for passcodes, Bluetooth connectivity for app control, and traditional physical keys.



Image 1: NGTeco ML300 Smart Door Lock with its accompanying smartphone application interface. The lock features a circular keypad with a central fingerprint sensor, and a handle. The phone screen displays a "Press to unlock" button.

Key Features:

- **Multiple Unlock Options:** Fingerprint, Passcode, NGTeco Home App (Bluetooth/Wi-Fi with gateway), Physical Key.
- **High Sensitivity Fingerprint ID:** 360° fingerprint recognition for quick unlocking.
- **Random Passcode Feature:** Enhances security by allowing random digits before and after the actual code.
- **Reversible Handle Design:** Compatible with both right-handed and left-handed doors.
- **Emergency Backup Power:** Micro-USB port for temporary power supply.
- **Smart Home Integration:** Works with Alexa and Google Assistant (requires Wi-Fi gateway, sold separately).

4-in-1 Smart Lock

Offers you more Options to unlock

Fingerprint



Free NGTeco Home App & Wi-fi



Passcode



Physical Keys



Image 2: This image illustrates the four primary methods to unlock the NGTeco ML300 Smart Door Lock: fingerprint recognition, control via the NGTeco Home App, entering a passcode on the keypad, and using a traditional physical key.

SPECIFICATIONS

Feature	Detail
Brand	NGTeco
Model Name	ML300
Lock Type	Biometric, Keypad
Special Features	Fingerprint, Wi-Fi (with gateway), Bluetooth
Material	Metal
Item Dimensions (L x W x H)	3 x 3 x 1.23 inches
Item Weight	5.06 pounds

Batteries Required	4 AA batteries (Alkaline, not included)
Connectivity Protocol	Bluetooth
Controller Type	App Control, Remote Control (with gateway)



Door Preparation:	2 11/64"(55mm) diameter face hole & 1"(25mm) diameter latch hole
Door Swing:	Reversible, works with both left and right swing doors
Door Thickness:	30mm-60mm automatic adjustment
Backset:	Adjustable 2 3/8"(60mm) or 2 3/4"(70mm)
Screw:	30mm-60mm

Image 3: This diagram provides essential door preparation dimensions for installing the NGTeco ML300 lock, including face hole diameter, latch hole diameter, door swing compatibility, door thickness, backset, and screw length requirements.

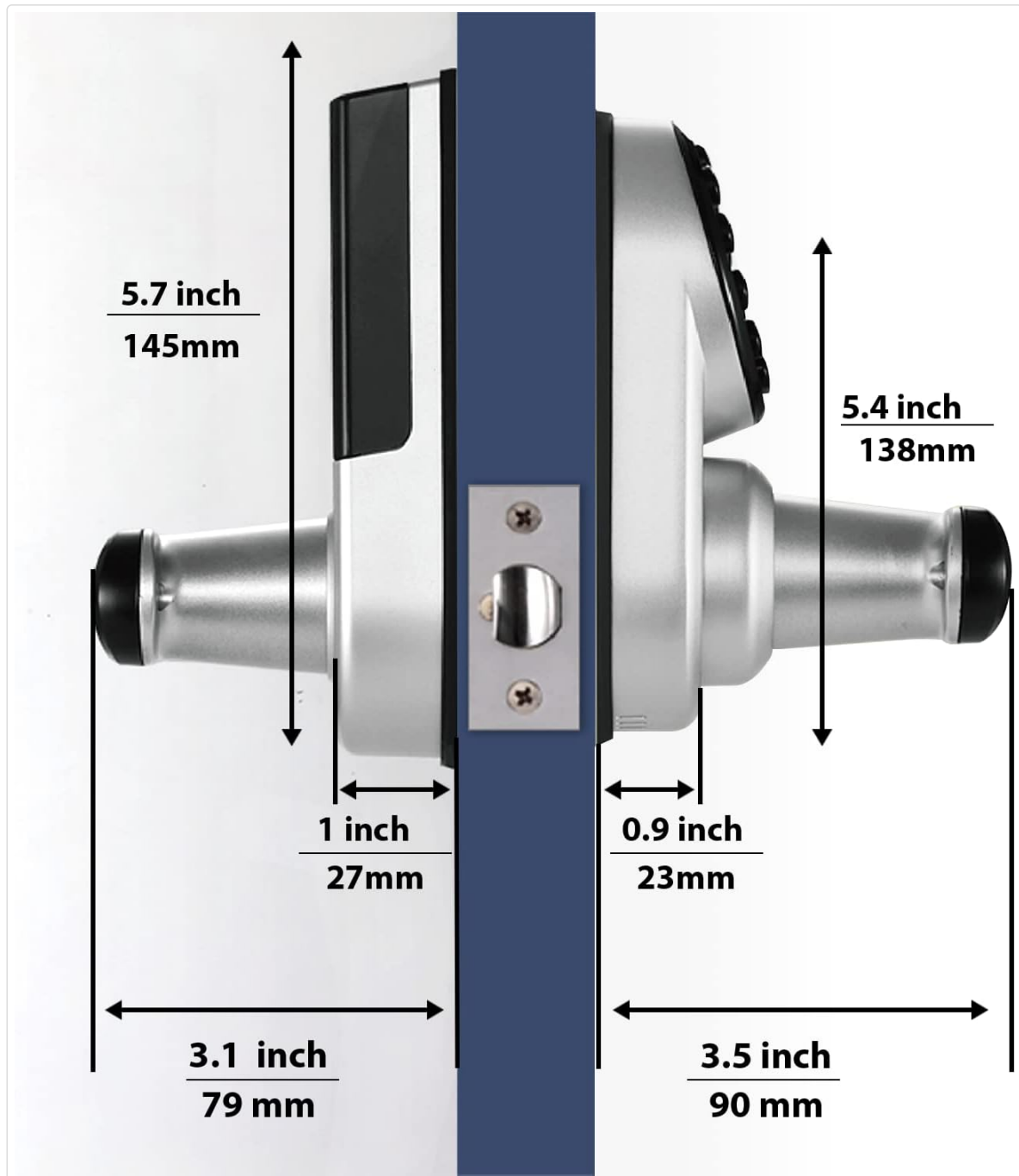


Image 4: A side-profile view of the NGTeco ML300 Smart Door Lock, illustrating its physical dimensions in both inches and millimeters, crucial for verifying compatibility with your door.

INSTALLATION GUIDE

Important: It is strongly recommended to install this lock while the door is open or ajar. Do not close your door until the batteries are inserted and the lock is fully tested.

Tools Required:

- Phillips Head Screwdriver
- 4 AA Alkaline Batteries (not included)

Step-by-Step Installation:

1. **Prepare the Door:** Ensure your door meets the specifications outlined in the "Specifications" section.

2. **Install the Latch Bolt:**

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Video 1: This video demonstrates the installation steps for the NGTeco ML300 Smart Door Lock, including preparing the door and installing the latch bolt. Ensure the adjustable bolt's square hole remains horizontal.

- Adjust the latch bolt length to 2-3/8" (60mm) or 2-3/4" (70mm) backset as needed.
- Ensure the spindle hole is at the center of the door bore hole.
- Make sure the axle hole is at the end and flush with the ground, not in the middle and tilted.
- Position the beveled edge of the lock tongue to face the direction in which the door swings shut.
- Insert the latch bolt into the door edge and secure it with screws.

3. **Install the Front Panel (Exterior Keypad):**

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Video 2: This video provides an unboxing and initial overview of the DL30Z Wifi Smart Door Lock, which shares similar installation principles with the ML300. It shows the components and initial setup steps.

- Adjust the door handle direction on the exterior keypad by rotating it to the left or right as required.
- Insert the set screw into the corresponding place on the exterior keypad.**Important:** Before inserting the lock shaft through the square hole, make sure the triangle on the lock shaft is facing up. Incorrect orientation will cause the lock to fail.
- Run the cable above the deadbolt.
- Insert and tighten the screw to secure the front handle. Ensure the screw is tightened firmly and in place.

4. **Install the Mounting Plate:**

- Align the mounting bracket with the threaded screw receptacles of the exterior keypad.
- Insert and tighten the screws to secure the mounting bracket.

5. **Install the Rear Panel (Interior Assembly):**

- Plug the exterior keypad cable into the socket on the interior assembly. Ensure any excess cable is pushed into the socket to avoid clamping and possibly affecting the use of the lock.
- Adjust the door handle direction on the interior assembly by rotating it to the left or right.
- Insert and tighten the screw to secure the back handle. Make sure the screw is tightened firmly and in place. Otherwise, the handle might be non-rotating.

6. **Insert Batteries and Test:**

- The lock will provide a low battery warning when power is critical.
- To replace batteries, remove the battery cover on the interior assembly.
- Replace all four AA alkaline batteries with new ones. Ensure correct polarity.
- Replace the battery cover.

1. Fingerprint Unlock:

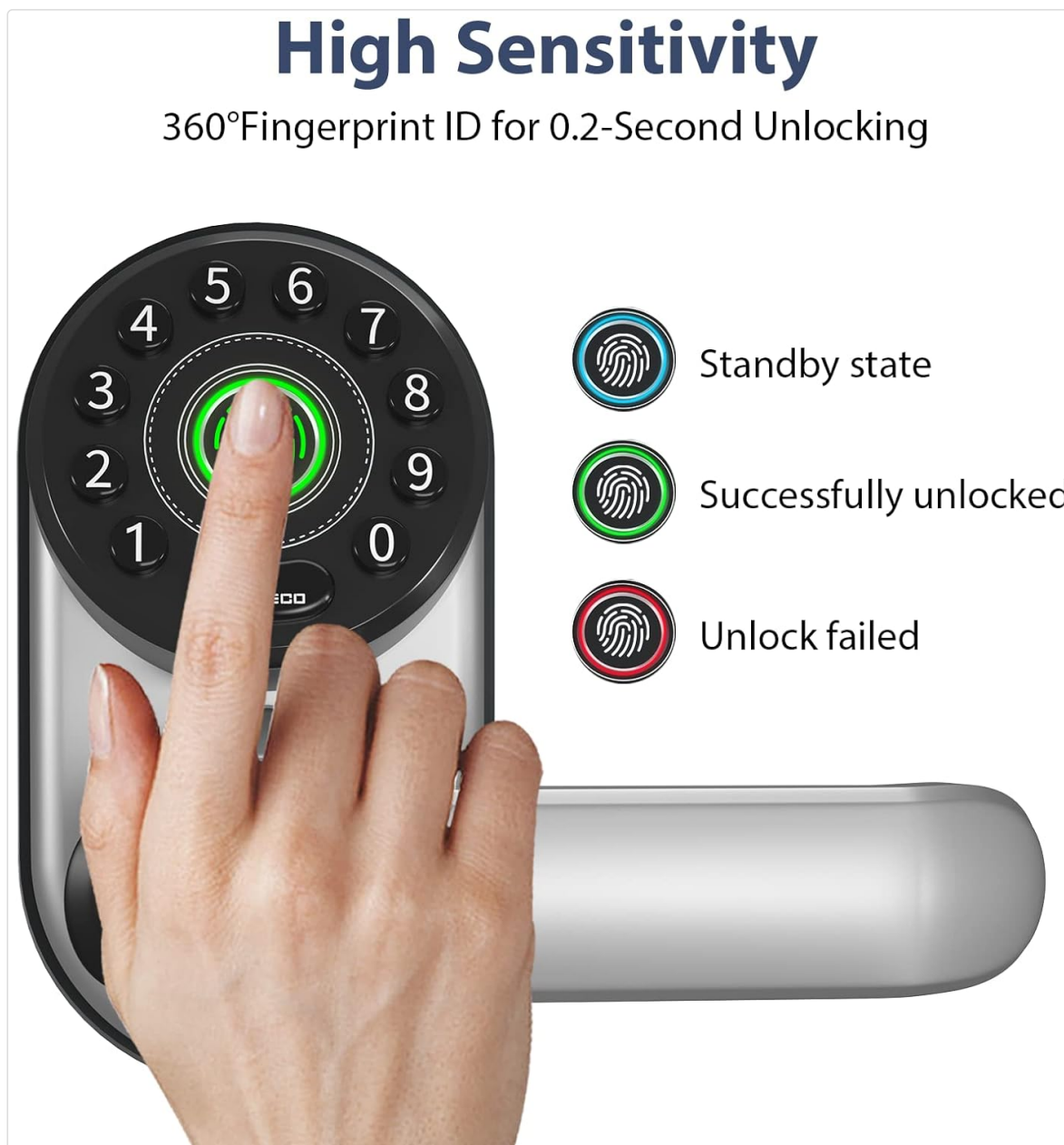


Image 5: This image highlights the high sensitivity of the 360° fingerprint ID sensor on the NGTeco ML300, capable of unlocking in 0.2 seconds. It also illustrates the visual indicators for standby (blue), successfully unlocked (green), and unlock failed (red).

- Place your registered finger on the fingerprint sensor.
- The lock will unlock if the fingerprint is recognized.

2. Passcode Unlock:

Random Passcode

Secure your passcode from prying eyes

159 123567 357

Correct password

Random Digits



Image 6: This image demonstrates the random passcode feature of the NGTeco ML300, where users can enter random digits before or after their correct password to enhance security against prying eyes.

- Touch the keypad to activate it.
- Enter your registered passcode (or random digits + passcode + random digits for enhanced security).
- Press the '#' key to confirm.

3. Physical Key Unlock:

- Insert the physical key into the keyhole located on the handle.
- Turn the key to unlock the door.

NGTECO HOME APP INTEGRATION

The NGTeco Home App allows you to control your ML300 lock via Bluetooth. For remote Wi-Fi access and smart home integration (Alexa/Google Assistant), a Wi-Fi gateway (SLG200, sold separately) is required.

1. Download and Setup the App:

- Download the "NGTeco Home" app from your smartphone's app store (Google Play Store or Apple App Store).
- Register for an account and log in.

2. Add Wi-Fi Gateway (SLG200 - Sold Separately):



Image 7: This image displays the NGTeco Wi-Fi Gateway, which enables remote access, smart notifications, and voice commands for the smart lock. It highlights compatibility with Amazon Alexa and Google Assistant, noting that the gateway is sold separately.

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Video 3: This video provides a detailed guide on how to install the ML300 Wi-Fi Gateway and connect it with Amazon Alexa, enabling voice control and remote access features.

- Plug in the SLG200 Wi-Fi gateway to a power source.
- Open the NGTeco Home app, tap '+' to add a device, and select 'Zigbee Gateway'.
- Follow the in-app instructions to reset the gateway and connect it to your 2.4GHz Wi-Fi network.

3. Add ML300 Smart Lock to the App:

- Within the gateway's interface in the app, tap 'Add Subdevice'.
- Follow the app's instructions to put the ML300 lock into pairing mode (usually by entering the menu on the lock's keypad and selecting the network setting option).
- Once detected, add the lock to your app.

4. App Features:

- **Remote Unlock:** Unlock your door from anywhere using the app (requires Wi-Fi gateway).
- **Temporary Passwords:** Generate time-limited passcodes for guests or service providers.
- **Access Records:** View a log of who entered and when.
- **User Management:** Add, modify, or delete user fingerprints and passcodes.
- **Smart Alerts:** Receive notifications for low battery, unauthorized attempts, etc.

MAINTENANCE

1. Battery Replacement:

- The lock will provide a low battery warning when power is critical.
- To replace batteries, remove the battery cover on the interior assembly.
- Replace all four AA alkaline batteries with new ones. Ensure correct polarity.
- Replace the battery cover.

2. Emergency Power:

- If batteries completely drain, you can use a Micro-USB power bank to temporarily power the lock via the Micro-USB port located at the bottom of the exterior handle.
- This allows you to unlock the door using a registered method (fingerprint, passcode, or app) and then replace the batteries.



Image 8: This image shows the NGTeco ML300 Smart Door Lock being powered by an external power bank connected via its Micro-USB port, providing emergency backup power in case the internal batteries are depleted.

3. Cleaning:

- Clean the lock's surface and fingerprint sensor with a soft, dry cloth.
- Avoid using abrasive cleaners or solvents that could damage the finish or electronic components.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lock does not respond.	Dead batteries.	Replace batteries or use emergency Micro-USB power.
Fingerprint not recognized.	Finger is dirty, wet, or improperly placed. Fingerprint not registered.	Clean and dry finger, ensure full contact with sensor. Register fingerprint in the app.
Passcode not working.	Incorrect passcode entered. Passcode not registered.	Verify passcode. Register passcode in the app.
Cannot connect to app via Bluetooth.	Bluetooth is off. Lock is out of range. App not paired.	Ensure Bluetooth is on. Move closer to the lock. Re-pair the lock with the app.
Remote unlock not working.	No Wi-Fi gateway. Gateway offline. Internet connection issue.	Ensure Wi-Fi gateway is installed and online. Check internet connection.
Handle moves but door doesn't unlock.	Lock mechanism not properly engaged. Screws overtightened during installation.	Check internal wiring and spindle alignment. Loosen mounting screws slightly.

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your NGTeco ML300 Smart Biometric Fingerprint Door Lock, please contact NGTeco customer service.

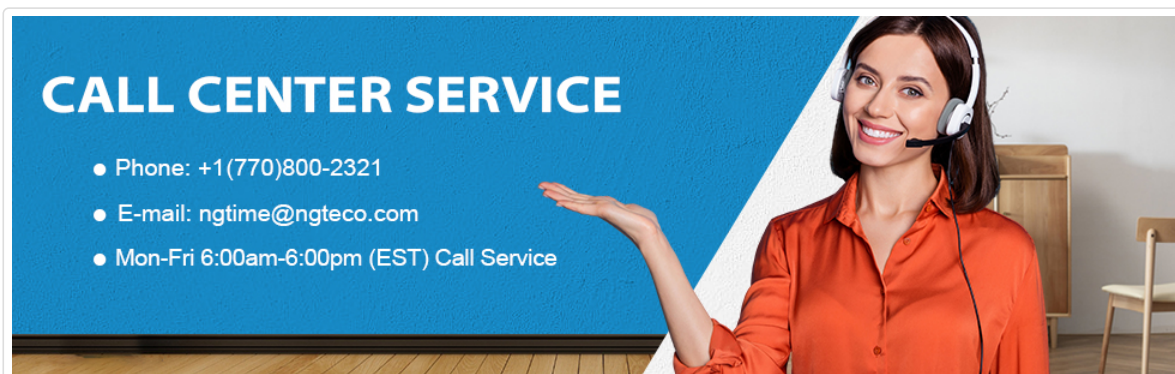
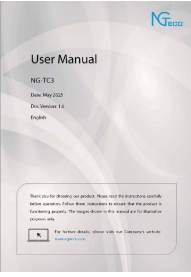

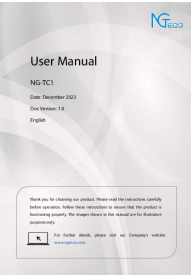





Image 9: NGTeco Call Center Service details, including phone number: +1(770)800-2321, E-mail: ngtime@ngteco.com, and operating hours: Mon-Fri 6:00am-6:00pm (EST).

- **Phone:** +1(770)800-2321
- **Email:** ngtime@ngteco.com
- **Operating Hours:** Monday - Friday, 6:00 AM - 6:00 PM (EST)

	<p>NG-TC3 User Manual - NGTeco Time and Attendance System</p> <p>This user manual provides comprehensive instructions for the NGTeco NG-TC3, a biometric time and attendance system. Learn about device setup, user management, verification methods, and integration with NGTeco Office software for efficient attendance tracking and management.</p>
	<p>NG-TC2 Cloud-based Fingerprint Time Clock - NGTeco</p> <p>Discover the NGTeco NG-TC2, a cloud-based fingerprint time clock offering fast and reliable attendance tracking. Features include TCP/IP and dual-band Wi-Fi, a built-in backup battery, and integration with NGTeco Office software for efficient management.</p>
	<p>NGTeco NG-TC1 User Manual: Operation and Features Guide</p> <p>Comprehensive user manual for the NGTeco NG-TC1 device, detailing setup, operation, user management, and system settings for attendance and access control.</p>
	<p>NG-MB1/NG-MB2: Guida Rapida - Installazione, Configurazione e Utilizzo</p> <p>Guida rapida per i dispositivi NGTeco NG-MB1 e NG-MB2. Include istruzioni su installazione, connessione di alimentazione ed Ethernet, configurazione Wi-Fi, registrazione utenti, gestione presenze, impostazione periodo di pagamento, aggiornamento firmware e assistenza.</p>
	<p>NG-D2310 Series Smart Lock Installation Guide and User Manual</p> <p>Comprehensive guide for installing and using the NG-D2310 Series smart lock by NGTeco, covering setup, features, and basic operations.</p>
	<p>NGTECO Fingerprint Time Clock User Manual</p> <p>This user manual provides comprehensive instructions for the NGTECO Fingerprint Time Clock, covering setup, user management, shift settings, report generation, system configuration, and troubleshooting.</p>

