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› GATEMAN WF20 Digital Door Lock User Manual

GateMan WF20

GATEMAN WF20 Digital Door Lock User Manual

Model: WF20 | Brand: GateMan

1. INTRODUCTION

Thank you for choosing the GATEMAN WF20 Digital Door Lock. This advanced security system offers convenient and secure access to your property through fingerprint recognition and passcode entry. This manual provides comprehensive instructions for the proper installation, operation, and maintenance of your new digital door lock. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.



Figure 1: GATEMAN WF20 Digital Door Lock Exterior Unit. This image shows the main exterior unit of the GATEMAN WF20 digital door lock, highlighting its fingerprint recognition scanner, numeric keypad, and sleek design.

Key Features:

- One-touch fingerprint recognition (up to 20 registrations)
- Audible voice guidance (Korean)
- Anti-peeping virtual passcode function
- Smart Pad with visual feedback
- Electric shock and high-temperature safety systems
- Durable fiberglass material
- Daily life waterproof function

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and security of your GATEMAN WF20 Digital Door Lock. While installation can be performed with basic tools like a screwdriver, some steps may require careful attention, especially for specific door types.

General Installation Notes:

- Ensure all components are present before beginning installation.
- For metal doors, you may need to adjust screw positions or use appropriate tools for drilling.
- When connecting wiring, ensure correct orientation. The external unit's claws should align neatly.
- Refer to the included installation template for precise drilling and component placement.

Battery Installation:

1. Open the battery cover on the interior unit.
2. Insert the specified number of AA alkaline batteries, ensuring correct polarity.
3. Close the battery cover securely.

3. OPERATING INSTRUCTIONS

3.1 Fingerprint Recognition

The GATEMAN WF20 supports one-touch fingerprint recognition for quick and secure access.

5.虚数暗証番号機能
覗き見防止

暗証番号を押すときにだれか隣で見
る
かお悩みでしたか？
もうそんなお悩みはここで解決！
隣で誰か見ても安心できます。
ランダムに暗証番号の前や後に虚数を
押してご利用いただけます。





비밀번호등록확인
등록한 비밀번호가
순차적으로 표시된 후
사라짐



지문 등록 시
등록갯수 표시한 후
사라짐(예:지문 5개
등록 시)



열림 / 닫힘
문이 열리고 잠기는
동작 시, 상 하향으로
점등

선택순서	동작	기능설명
손바닥으로 터치하기		손바닥으로 실외부의 번호판을 터치합니다
아무 번호(허수)와 비밀번호 입력하기		방법1: 허수 → 비밀번호 누르기 방법2: 비밀번호 → 허수 누르기
버튼을 눌러 종료합니다		손바닥으로 실외부의 번호판을 삼각 터치하거나 버튼(★표)을 눌러 종료합니다.

방법1

손바닥 터치 > 비밀번호 입력 > 허수 (입력 제한 없음) > 손바닥 터치

방법2

손바닥 터치 > 허수 (입력 제한 없음) > 비밀번호 입력 > 손바닥 터치

6.스마트패드
目で見る楽しみまで

暗証番号を押し間違えたのかな？この音
は何故なるのだろうか？
スマート패드機能は数字のランプを一
つずつ分離設計した個別ライティング技
術を適用、使用便利性を高めて
使用中の機能の進行状態までわかるよう
に表示するので使用して楽しめます。

Figure 2: Fingerprint Scanning. This image illustrates the fingerprint recognition process for the GATEMAN WF20, showing a finger being placed on the scanner.

Fingerprint Registration:

1. Access the registration mode (refer to the detailed programming guide for specific steps).
2. Place the desired finger on the scanner.
3. For optimal accuracy, register the same finger three times.
4. Ensure your finger is placed correctly from top to bottom during registration and subsequent use.

Up to 20 fingerprints can be registered.

3.2 Passcode Entry and Anti-Peeping Function

The lock supports passcode entry and includes a virtual passcode function to enhance security against observation.

7.電気衝撃安全システム

ゲートマンワイドWF-20は500回の電気衝撃を耐えてから工場の門を出ることができます。

50,000ボルトまで電気衝撃を耐えるように制作されており(KS基準30,000ボルト)

雷の原理を利用して強い電気衝撃を受けた時に防止チップで吸収して回路に衝撃が届かないよう設計され安心してご利用いただけます。



8.高温警報安全システム 火災安全開閉システム

火災発生の際にメインボディーに装着された感知センサーに℃55度の内外の熱が感知された場合、80DBの警報音が鳴り響いて避難することをお知らせいたします。

また、円滑な避難のため自動にドアロックのロック機能が解除される火災安全開閉システムを装着いたしました。



Figure 3: Hand Touch Feature. This image demonstrates the 'Hand Touch' feature of the GATEMAN WF20, designed to prevent fingerprint residue from being left on the keypad.

Standard Passcode Entry:

1. Touch the keypad to activate it.
2. Enter your registered passcode.
3. Press the '*' or '#' button (or equivalent confirmation button) to unlock.

Virtual Passcode (Anti-Peeping) Function:

To prevent others from observing your passcode, you can enter random numbers before or after your actual passcode.

9. ファイバーグラス (FIBER GLASS) 熱と衝撃に強い特殊素材

WF-20に使用する特殊素材は℃1,000度の高温でも形を維持して事ある時に正常作動するように制作されました。

また、この素材は電気絶縁性が大きく静電気にも強いです。

ファイバーグラスは軍用ヘルメットなどに使われる先端素材でございます。けた時に防止チップで吸収して回路に衝撃が届かないよう設計され安心してご利用いただけます。



10. 生活防水機能

ゲートマンワイドWF-20は外部にある程度の露出した環境でも正常作動できるよう生活防水機能が搭載されております。廊下式アパートやマンションくらいの軒があるところでしたら、安心してご利用いただけます。



Figure 4: Virtual Passcode Function. This image explains the virtual passcode function of the GATEMAN WF20, showing how to enter random numbers before or after your real passcode.

Method 1: Enter random numbers > Enter actual passcode > Enter more random numbers > Touch the pad.

Method 2: Touch the pad > Enter random numbers > Enter actual passcode > Touch the pad.

3.3 Smart Pad Visual Feedback

The smart pad provides clear visual feedback through individually illuminated number lamps, making it easy to confirm entries and understand the lock's status.

11.3分ロック機能

登録されていない暗証番号を連続に5回入力すると3分間外部のどんなボタンも動作しない機能でございます。



12.2WAY認証方式

ゲートマンワイドWF - 20は登録された指紋また暗証番号を利用して門を開けられます。
指紋と暗証番号はいつでも変更してご利用いただけます。

Figure 5: Smart Pad. This image highlights the 'Smart Pad' feature of the GATEMAN WF20, showing how the pad uses individual number lamp illumination to provide clear visual feedback.

3.4 3-Minute Lock Function

As a security measure, if an unregistered passcode is entered 5 times consecutively, all external buttons on the lock will be disabled for 3 minutes.

3.5 2-Way Authentication

The GATEMAN WF20 allows you to open the door using either registered fingerprints or passcodes. Both authentication methods can be easily changed or updated as needed.

3.6 Automatic and Forced Lock Functions

The door lock method can be set to either automatic locking or manual one-touch locking for convenience. Additionally, an internal forced lock function can be activated. When the internal forced lock is set, the door cannot be opened from the outside, even with a valid passcode or registered fingerprint, providing enhanced privacy and security.

3.7 Volume Adjustment and Self-Diagnosis

The operating sound volume can be adjusted with a one-touch button. The lock also features a self-diagnosis function that informs the user of any potential malfunction status in advance, improving user convenience and allowing for timely troubleshooting.

3.8 Emergency Power Supply

The lock is equipped with an emergency power supply feature. Before the batteries are completely discharged, an alarm will sound, and a red light will indicate that it's time for battery replacement. If the batteries are fully discharged before replacement, you can temporarily power the lock using an external 9V battery to gain access.

3.9 Breakage and Intrusion Alarm

For enhanced security, the GATEMAN WF20 features an alarm function that activates upon detecting forced entry or breakage attempts. A strong alarm will sound to notify the surroundings, serving as an effective deterrent against crime.

4. ADVANCED FEATURES

4.1 Voice Guidance

The GATEMAN WF20 is equipped with a voice guidance function (in Korean) that provides clear instructions for operation, making it easier and more convenient to use compared to simple alarm tones.

3.指紋認識

指紋は20個まで登録可能
指紋を登録する際は同じ指紋を3回登録
するようにして認識エラーを最大限に
減らしました。
指紋を認識する手をちゃんと正しくつ
けながら上から下へ正確に降りてくだ
さい。



4.ハンドタッチ 指紋痕跡NO!

指紋が残るか心配でしょう？
指紋の跡が残らないドアロック！
もう安心してご利用くださいませ！
暗証番号を入力した後、パッドを手でタ
ッチしてください。
自然に指紋の残りを隠せるからより安全
に。



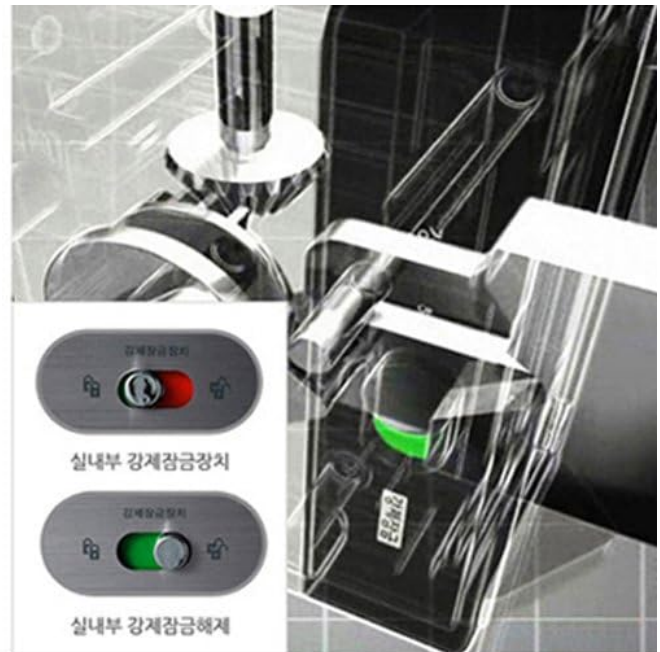
Figure 6: Interior Unit with Speaker. This image displays the interior unit of the GATEMAN WF20 digital door lock, pointing out the speaker output area for voice guidance.

4.2 Electric Shock Safety System

The WF20 is designed with a robust electric shock safety system. It can withstand up to 50,000 volts of electric shock (exceeding the KS standard of 30,000 volts) and is equipped with a protective chip that absorbs impact from strong electrical surges, such as lightning. This ensures reliable operation and user safety even in adverse conditions.

13.自動手動ロック機能 強制ロック機能

ゲートマンワイドWF-20は門のロック方式を自動または手動へワンタッチ方式で設定できるので便利です。
内部強制ロックを設定すると暗証番号と登録した指紋でも開けることはできません。



14.音量調節及び自我診断機能

動作音の大きさはワンタッチでボタンだけ動かせ設定変更可能でございます。
また、自我診断機能があって製品の誤作動状態を先に知らせ使用者の便利性を高めました。

Figure 7: Electric Shock Protection. This image illustrates the electric shock safety system of the GATEMAN WF20, showing the lock with a lightning bolt icon.

4.3 High-Temperature Alarm Safety System

In the event of a fire, the main body's built-in sensor will detect internal or external temperatures reaching 55°C. An 80dB alarm will sound to alert occupants and facilitate evacuation. Additionally, for smooth and safe exit, the door lock function will automatically release.

15.非常電源供給機能

電池が放電される前にアラムが鳴り電池
交替灯に赤い光がつけられ
電池交替時期をお知らせいたします。
それでも電池を交替してないで放電した
場合は外部の9V電池を利用して臨時に電
源を供給することができます。



16.破損及び侵入の時の警報機能

外部人が強制に侵入を試みたら強力な警
報音が周囲へ知らせますので窃盗予防に
効果的です。

Figure 8: High-Temperature Alarm. This image depicts the high-temperature alarm safety system of the GATEMAN WF20, showing the lock with a fire alarm icon.

4.4 Fiberglass Material

The WF20 utilizes a special fiberglass material known for its resistance to heat and impact. This material maintains its shape even at high temperatures of 1,000 degrees Celsius and ensures normal operation during impact. It also boasts excellent electrical insulation and strong resistance to static electricity, similar to advanced materials used in military helmets.

4.5 Daily Life Waterproof Function

The GATEMAN WF20 is equipped with a daily life waterproof function, allowing it to operate normally even in environments with some external exposure to moisture. It is suitable for installation in locations such as apartments or mansions that have protective eaves.

5. MAINTENANCE

5.1 Battery Replacement

When the low battery alarm sounds and the red light illuminates, it is time to replace the batteries. Prompt replacement

ensures continuous operation and security.

1. Open the battery cover on the interior unit.
2. Remove the old batteries.
3. Insert new AA alkaline batteries, ensuring correct polarity.
4. Close the battery cover securely.

5.2 Cleaning

Wipe the exterior surfaces of the lock with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or internal components.

6. TROUBLESHOOTING

If you encounter issues with your GATEMAN WF20 Digital Door Lock, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fingerprint not recognized easily	Improper finger placement; insufficient registration data; dry/wet finger.	Ensure finger is placed correctly from top to bottom. Re-register the fingerprint 3 times for better accuracy. Ensure finger is clean and not excessively dry or wet.
Keypad unresponsive after multiple incorrect entries	3-Minute Lock function activated.	Wait for 3 minutes for the lock to reset. Avoid repeated incorrect entries.
Lock does not respond (no power)	Batteries are completely discharged.	Use an external 9V battery to supply emergency power. Replace internal batteries immediately.
Alarm sounds unexpectedly	High-temperature alarm activated; intrusion attempt detected.	Check for fire hazards. Inspect the door for signs of tampering. If false alarm, consult the full programming guide for alarm sensitivity settings or contact support.
Voice guidance is in Korean	Product is designed with Korean voice guidance.	This is the default language. Refer to the manual for visual cues and instructions.

If the problem persists after attempting these solutions, please contact customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	GateMan
Model Number	WF-20
Lock Type	Keypad, Biometric (Fingerprint)
Authentication Style	Fingerprint recognition
Color	Black

Feature	Detail
Shape	Rectangular
Control Method	Touch
Fingerprint Capacity	Up to 20 registrations
Power Supply	AA Alkaline Batteries (quantity not specified, typically 4-8)
Emergency Power	External 9V Battery
High-Temperature Alarm	Activates at 55°C, 80dB alarm
Electric Shock Resistance	Up to 50,000 volts
Material	Fiberglass (heat and impact resistant)

8. WARRANTY AND SUPPORT

Specific warranty information for the GATEMAN WF20 Digital Door Lock may vary by region and retailer. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact the retailer or the manufacturer's authorized service center. Contact information can typically be found on the product packaging or the seller's website.