

keyless padlock

Release: version1.2

Date: 27-Dec-2018

CHENGDU HIZIMA TECHNOLOGY CO.,LTD
D2-2F, MOJU INDUSTRIAL PARK, #199, XIQU AVENUE, HI-TECH ZONE WEST,
CHENGDU, SICHUAN, CHINA
People' s Republic of China
Tel: (86) 28-87885966
Fax: (86) 28-87886166
Email: sales@hizima.com

Copyright

Copyright©2015, CHENGDU HIZIMA TECHNOLOGY CO.,LTD All Rights Reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of CHENGDU HIZIMA TECHNOLOGY CO.,LTD



and HIZIMA are trademarks or registered trademarks of CHENGDU HIZIMA TECHNOLOGY CO.,LTD

All other trademarks that may be mentioned in this document are the property of their respective owners.

The information in this document is subject to change without notice. In no event shall HIZIMA be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this document or the related content on the website, even if advised of the possibility of such damage.

Security Statement

Important! Before powering on and starting any HIZIMA product, please read the security and compatibility information of the product.

Environmental protection

All HIZIMA products have been designed to comply with the environmental protection requirements. The storage, use, and disposal of HIZIMA product must meet the applicable national laws and regulations.

Document Description

The words and graphs in the document are for description of HIZIMA products specification or features.

Document Attributes

Attribute	Content
Document topic	keyless padlock Data Sheet
Document No.	
Last update	Oct. 15th, 2018
Document status	Released

Revision Records

Document Version	Revision date	Revised by	Description
V1.0	15-10-2018	Zhou	Finish the first version data sheet
V1.2	27-12-2018	Zhou	Finish the second version data sheet

Contents

1.Product.....	5
1.1 profile.....	5
1.2 General Features.....	5
1.3 Workflow.....	6
2.Specification and Dimension.....	6
3.Dimension.....	7
4.Operation.....	8
4.1 Lock and Unlock.....	8
4.1.1 Start the lock.....	8
4.1.2 Unlock.....	9
4.1.3 Lock.....	10
4.2 Battery change.....	10
4.3 Self-priming magnetic external emergency power supply design.....	11
4.4 Restart.....	11
4.5 Lanyard.....	11
5.Precautions.....	12
6. Order Information.....	12

1.Product

1.1 profile

ZMP-40K Bluetooth padlock body is made of stainless steel and the shackle is made of alloy steel. The overall IP65 waterproof rating is especially suitable for environments with high security requirements. The battery needs to be installed during use. The physical key is not required for the opening of the lock. It is especially suitable for electronic lock management in the case of no external power supply or inconvenient wiring.

ZMP-40K Bluetooth padlock has a built-in micro processor, which can be used with the sesame APP management software, which can be used for real-time locking, battery management, and unlock log management. With the support of the Internet, the lock core also has a central authorization function, which can be operated in online or offline mode to realize distributed centralized management of massive lock groups. Some additional configurations also support unlocking the password via the keyboard.

Can be widely used in telecommunications, petrochemical, transportation, electric power and other industries, industrial applications see 1.3 typical application.

1.2 General Features



- Bi-directional encryption and authentication security chip, no mutual opening rate, prevent technical unlock;
- No need key;
- Self -priming magnetic external emergency power supply;
- Metal closed isolation compartment design;
- Double side latch lock structure with locking force.

- The battery can be replaced.
- Starting lock by Vibration.

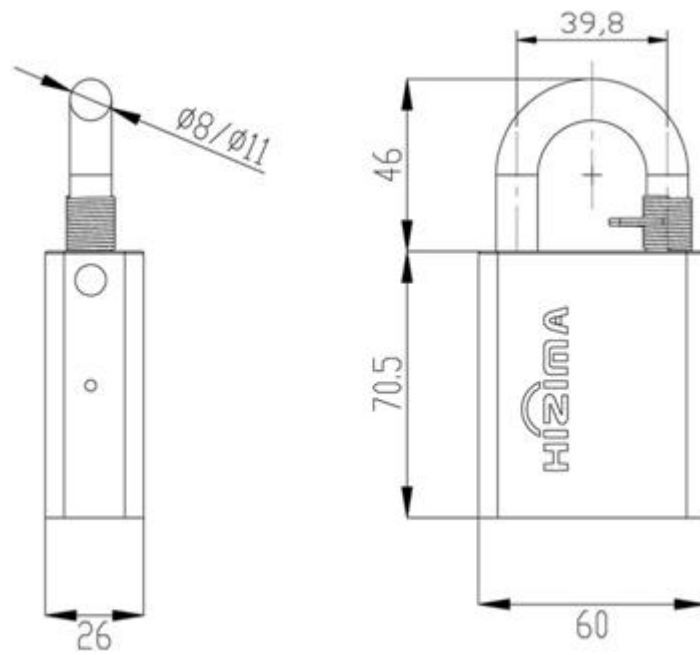
1.3 Workflow



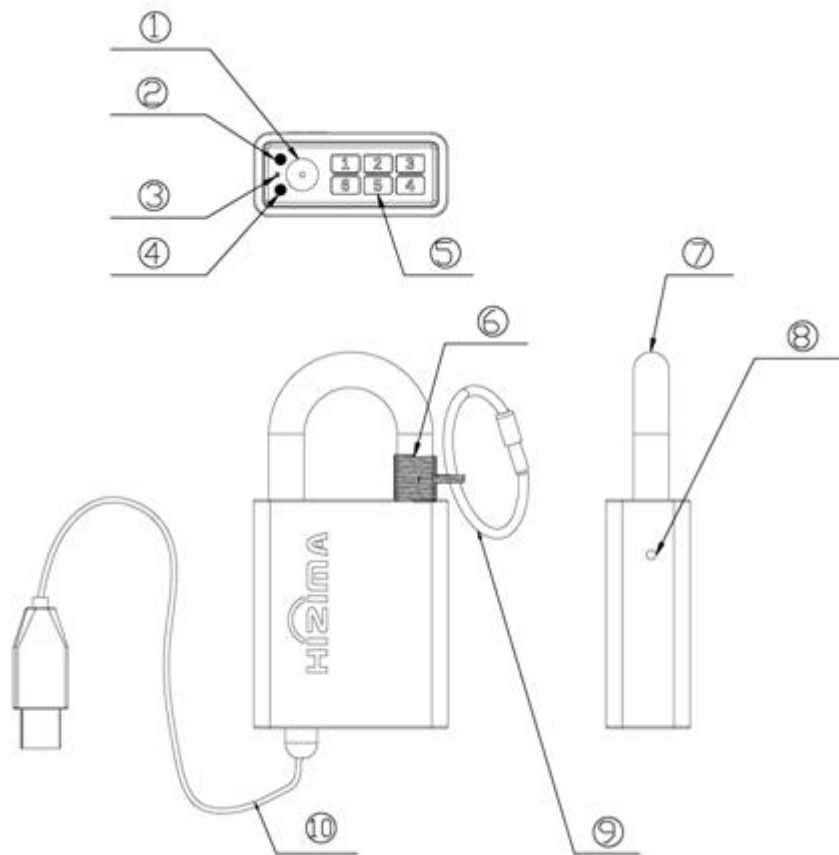
2. Specification and Dimension

Model	ZMP-40K
Cylinder	Bluetooth active electronic padlock
logs	1000
Material of lock body	SUS304
Dimension of lock body	70x60x26mm
Working temperature	Temperature: -30—70°C Humidity: 5—90%
Ingress protection	IP65
Weight	600g
Diameter of shackle	11mm
Material of shackle	A3 hardened steel with chrome plated
Length of shackle	46mm
Battery	DC 3V CR-2 disposable lithium battery
Emergency power supply	DC 5V, Self-priming magnetic power supply socket
Emergency power supply	DC 5V, Self-priming magnetic power supply socket
Lanyard	Yes

3.Dimension



4.Operation

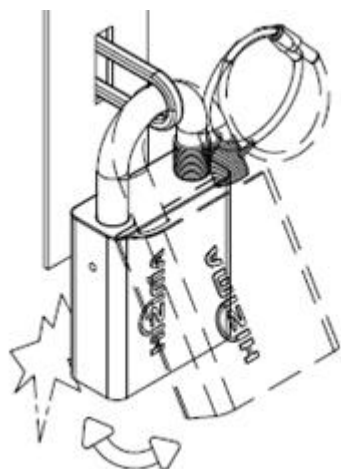


1, emergency power supply socket 2, red light 3, reset electrode 4, green light 5, keyboard
6, lanyard hook 7, shackle 8, drainage hole 9, lanyard 10, emergency power supply line

4.1 Lock and Unlock

4.1.1 Start the lock

Unlike other Bluetooth padlocks, the ZMP-40K has a built-in vibration sensor. Therefore, when the lock is unlocked, only taking the lock and the surrounding objects such as the door panel are knocked. The power of the lock is turned on. At this time, the red and green indicators of the lock are always on. If the emergency power supply is used to unlock the lock, it does not need to be knocked, and the lock is automatically turned on.



4.1.2 Unlock

In the unlocked state, the green light flashes once every 300 milliseconds before the shackle is pulled apart. If the shackle is not pulled out for more than 10 seconds, it will automatically lock and immediately shut down. After all the user unlocks the event, the lock will generate the corresponding log and save it in the lock. The number of logs is not less than 1000.

APP unlock

In this mode, the APP must be connected to the lock Bluetooth. After the Bluetooth is successfully connected, the red light flashes every 2 seconds. The operation is unlocked in the APP, and the status of the lock (electricity, switch status, etc.) can be displayed in the APP interface. For details, please refer to the APP software operation.

Unlock by one-time password

When the green light is always on, the user can enter the password on the keyboard. After entering the first digit of the password, the green light turns off. Each time you press a key, the green light follows. You can set a maximum of 12 password lengths. 5 seconds, otherwise the green light is always on, you must re-enter, so if you find that the password is wrong, you can wait for the time-out to re-enter.

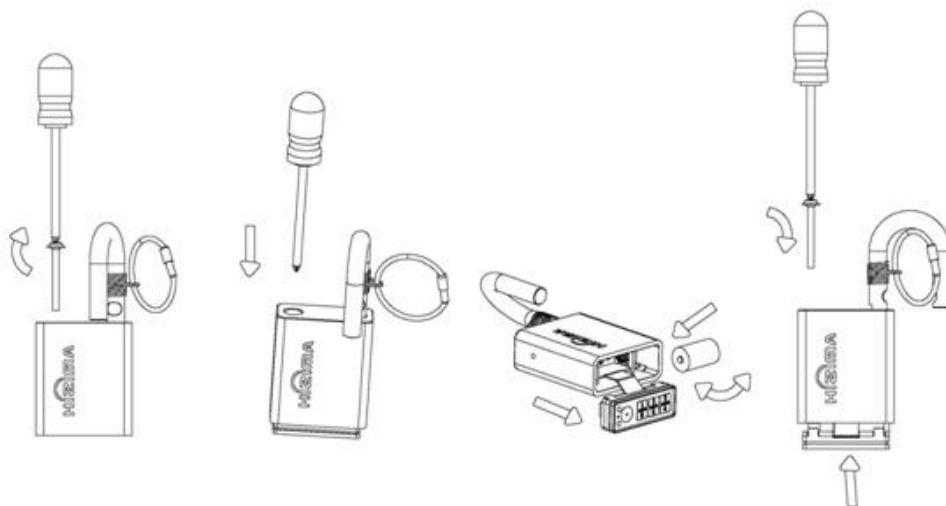
One password can be set multiple times (up to 63 times) or permanently unlocked. The user can set no less than 128 such passwords.

Please refer to APP operation for the password source.

4.1.3 Lock

When the shackle is pressed to the closed position and held for more than 1 second, the lock is automatically locked and the green light flashes 3 times. When the lock is off, and there is no Bluetooth connection or the last button is more than 30 seconds, the power is automatically disconnected; if the user unlocks successfully during this time, and the shackle is pulled open, when the lock is turned off, the power is turned on. Automatically disconnected immediately.

4.2 Battery change



Steps	Operations
1	When the lock is in the open state, remove the screw in the hole on the short side of the lock beam. After removing it, pay attention to the order of the gasket and the waterproof ring on the screw.
2	Use a Phillips screwdriver to insert the removed screw hole and gently push the keyboard out.
3	Remove the old battery and replace it with a new one. Note that the positive and negative terminals of the battery cannot be reversed. Otherwise, the motherboard is damaged. It is recommended to use the Panasonic CR2 battery.

4	Organize the keyboard cable, and then push the keyboard into the lock shell in parallel. During the push process, notice that the black waterproof ring should always be placed in the keyboard slot.
5	Check locking and unlocking is normal or not.
6	After normal, install the screws back into place and tighten.
7	Check again locking and unlocking is normal or not .

4.3 Self-priming magnetic external emergency power supply design

An external emergency power supply interface is configured on the lock. When the battery is exhausted, the lock cannot be unlocked. The power supply can be unlocked (the lock permission is still required), and then the battery is replaced.

This interface uses a self-priming magnetic socket and the outside is flat. It does not need to be deliberately aligned during operation. The self-priming magnetic design automatically adjusts the power plug and socket to the optimal position.



The self-priming magnetic power supply line does not have a short-circuit protection structure. When operating, the emergency power supply line must be connected to the lock first, and then the USB A interface of the emergency power supply line is connected to the external power supply (the power supply is DC 5V); The external power supply must be disconnected immediately, and then the lock end should be disconnected. Even during operation, the magnetic power supply wire should be prevented from falling off and attached to other metal objects, otherwise the external power supply may be damaged or other safety accidents may occur.

4.4 Restart

In the case of a lock-up machine, the reset electrode and the metal part of the outer ring of the emergency power supply socket are short-circuited by a metal wire and then removed, and the reset is completed.

4.5 Lanyard

After unlocking, in order to prevent the lock from being moved to other places or falling off the ground, the lanyard hook can be tied with other items such as the fence door with a lanyard, and of course it can be omitted.

5. Precautions

1. Please do not exceed the limits specified in this specification when use the lock.
2. In the process of installation, please take care to handle the parts gently, avoiding falling down to cause damage.
3. The product is non explosion-proof and cannot be used in inflammable and explosive environment.
4. Do not hit the lock body heavily; do not wipe the lock body with corrosive materials.
5. The product is with waterproof design, please do not disassemble the product by unauthorized professionals to avoid affecting the waterproof function; When the drain hole is blocked by foreign matter, it should be cleaned to keep the drainage smoothly.
6. If using the battery, remove the battery as soon as possible after the battery is used up to prevent the battery from leaking and damaging the power supply box.

6. Order Information

Product Name	Item no.	Description
keyless padlock	ZMP-40K	Smart Bluetooth padlock with fixed shackle. Shackle height 46mm, diameter 11mm, material stainless steel

Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

Any change or modification to the product not expressly approved by CHENGDU HIZIMA TECHNOLOGY CO.,LTD could void the user's authority to operate the device.

RF Exposure Information and Statement

This transmitter must not be in co-location or operating in conjunction with any other antenna or transmitter. This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20cm between the device and your body.