

# WKEY-2000 Users' Manual

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## 1. Product overview

WKey-2000 is a wireless authentication key that you wirelessly communicate with each other in 2.4GHz. It is used as a key of access control systems as the product which satisfies users' convenience and security. As it doesn't require users' authentication behaviors like RF-ID or finer scan, but is automatically authenticated, it is the next generation access device that convenience was drastically improved.

The external appearance of WKey-2000 made by CSINFOTEL is as follow:



[Figure 1] WKey-2000

## 2. Product mix

WKey-2000 consists of the following products:

- A finished product of WKey-2000
- Three coin batteries are included.

Please see [Figure 2].



[Figure 2] WKey-2000

### 3. How to use WKey-2000



[Figure 3] WKey-2000

WKey-2000's composition is shown in [Figure 4].

Three coin batteries are used in Wkey-2000 of this company. You can use it for about a week when you operate Power On (Sleep Mode, Interval Time 5sec).

How to use the user button and status LED is as follow: You can select use by using the Button. And if you press the Button for more than three seconds, Red LED can change the operational status of WKey-2000. If Red LED flickers twice, the power is switched on and Green LED flickers by the set cycle (Default 5 sec.). At this moment, you can use the wireless access authentication function.

If you again press the Button for more than three seconds while the power is switched on, Red LED flickers once and the power is switched off. When the power is switched off, the wireless access authentication function cannot be used and battery consumption can remarkably be reduced.

Therefore, it is recommended to use the product by turning off the power in advance in places that access authentication is not required.

#### 4. System configuration



**[Figure 3] WKey-2000's system configuration**

WKey-2000's system configuration is shown in [Figure 3]. WKey-2000 wirelessly communicates with SG-7000. And SG-7000 communicates with it by using Manager/Server and Ethernet. **For the contents related to SG-7000 and Manager/Server, please see each manual.**

## 5. WKey-2000 specifications

Item	Specifications
MCU	16 bit Microprocessor
RF communication band	2.4GHz ~ 2.4835 GHz
Data-rate	250Kbps
IEEE Standard	802.15.4 2003
Battery	LITHIUM Battery(CR2032) x 3 / 3Vdc, 0.3A
Workable temperature	-20°C ~ 50°C

### IMPORTANT!!

15.21 You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

15.105(b) 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, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.