SmartKey2
Users Manual

INSTRUCTION TO THE USER

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 typical 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 on the device experiencing the interference
- Increase the separation between the Door Manager and the equipment experiencing the interference.
- Connect the equipment into an outlet on a circuit different from that to which the Door Manager is connected
- Consult the dealer or experienced technician for the device experiencing the interference

In order to maintain compliance with FCC regulations, no changes can be made to this equipment without the approval of Gatekeeper Systems, Inc. The user is cautioned that any changes or modifications made to the equipment without the approval of Gatekeeper Systems, Inc. could void the user's authority to operate this equipment.

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.

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The ambient temperature is 0°C to 50°C
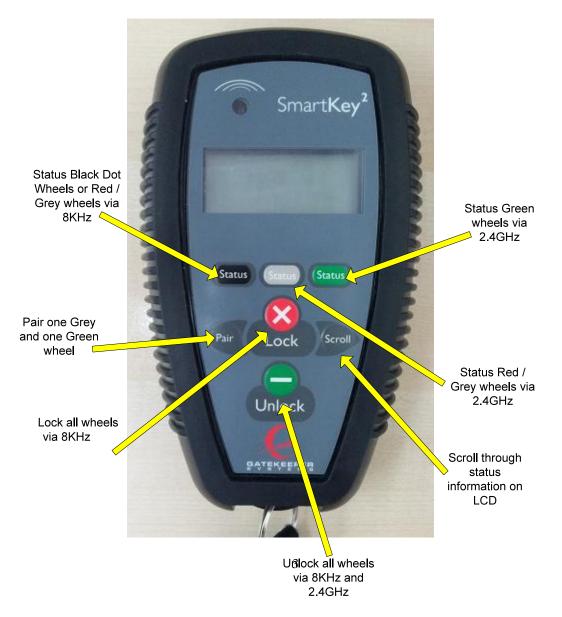
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1 SmartKey2 Overview

The Gatekeeper Systems SmartKey2 combines the functions of the "SmartKey" and CartKey2 with the ability to pair wheels

1.1 SmartKey2 Diagram

The SmartKey2 uses the same enclosure and battery as the Smart Key.

Status Black Dot Wheels or Red / Grey wheels via 8KHz

Status Green wheels via 2.4GHz

Pair one Grey and one Green wheel

Status Red / Grey wheels via 2.4GHz

Lock all wheels via 8KHz

Scroll through status information on LCD

Unlock all wheels via 8KHz and 2.4GHz

2 Lock and Unlock

The SmartKey2 will lock or unlock any (GS2, Black Dot, Red Dot, Grey Dot, Green Dot) Gatekeeper Systems wheel. When the Unlock button
is pressed, the appropriate command is first sent out on 8KHz (with approximately 3 feet / 1 meter range) and then sent out on 2.4GHz (with approximately 12 feet / 4 meter range).
When the Lock button is pressed, only 8HKz command will be sent out (with approximately 3 feet / 1 meter range).
All wheels within the appropriate range will lock or unlock.

3 Status

The SmartKey2 can retrieve status information from any (GS2, Black Dot, Red Dot, Grey Dot, Green Dot) Gatekeeper Systems wheel.

3.1 GS2 and Black Dot Wheel Status

To retrieve status information from a GS2 or Black Dot wheel (or a Red Dot / Grey Dot wheel via 8KHz) place the SmartKey2 within 1 inch of the wheel and press the black status button once. The LCD screen should display "rEC". When the display changes from "rEC" to "iD2" the wheel status is ready for viewing. The scroll button is used to cycle through the status information received from the wheel.

3.2 Red Dot and Grey Dot Wheel Status

To retrieve status information from a Red Dot or a Grey Dot wheel (via 2.4GHz) place the SmartKey2 within 3 feet (1 meter) of the wheel to be read and press the red/grey status button once. *Make sure other wheels are at least 30 feet / 10 meters away.* The LCD screen should display "rEC". When the display changes from "rEC" to "iD2" the wheel status is ready for viewing. The scroll button is used to cycle through the status information received from the wheel.

3.3 Green Dot Wheel Status

To retrieve status information from a Red Dot or a Grey Dot wheel (via 2.4GHz) place the SmartKey2 within 3 feet (1 meter) of the wheel and press the green status button once. *Make sure other wheels are at least 30 feet / 10 meters away .*The LCD screen should display "rEC". When the display changes from "rEC" to "iD2" the wheel status is ready for viewing. The scroll button is used to cycle through the status information received from the wheel.

4 Pairing Wheels

The SmartKey2 can pair one Grey Dot and one Green Dot wheel. To pair one Grey Dot and one Green Dot wheel:

1. Place the Grey Wheel and the Green wheel to be paired within 3 feet / 1 meter of the SmartKey2. (wheels may be on a shopping cart).
2. Make sure there are no other Red Dot / Grey Dot / Green Dot wheels within 30 feet / 10 meters of the SmartKey2.
3. Press the pair button once.

The SmartKey2 will display dashes as it is performing the pairing operation. When the pairing operation is complete, the Super Key will display either "Pass" if the wheels were successfully paired or an error code. See the table below for error code definitions:

Error Code	Definition
ER 0	Super Key did not find any wheels to pair
ER 1	Super Key did not find a Green wheel to pair
ER 2	Super Key did not find a Grey wheel to pair
ER 3	Wheels too far from Super Key
ER 4	Super Key found more than one Grey / Green wheel
ER 5	Communication Problem
ER 6	Pairing Failed
ER 7	Change Green Wheel Battery and try again
ER 8	Change Grey Wheel Battery and try again

The SmartKey2 will only pair wheels with SW versions 2.5 or greater. Both wheels must be at the same SW version.

5.3 Signal Analysis Mode Codes

The SmartKey2 will display various codes to indicate the different codes used for 8KHz.

8KHz Codes

8KHz Command Codes

Code	Definition
3	Normal Perimeter Lock
4	Indoor Unlock (No delay)
6	Normal Unlock (10 Second delay)
10	10 Minute Permission
11	30 Minute Permission
12	1 Hour Permission
13	3 Hour Permission
14	12 Hour Permission
15	2 Minute Permission
16	5 Minute Permission
19	Alternative Lock
20	Alternative Unlock
22	Surveillance Mode
23	purchek Lock

Contacting Gatekeeper Systems

For more information about the Door Manager and troubleshooting, to order parts or report an issue, contact the Gatekeeper Systems Inc. regional Customer Support office nearest to your location.

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