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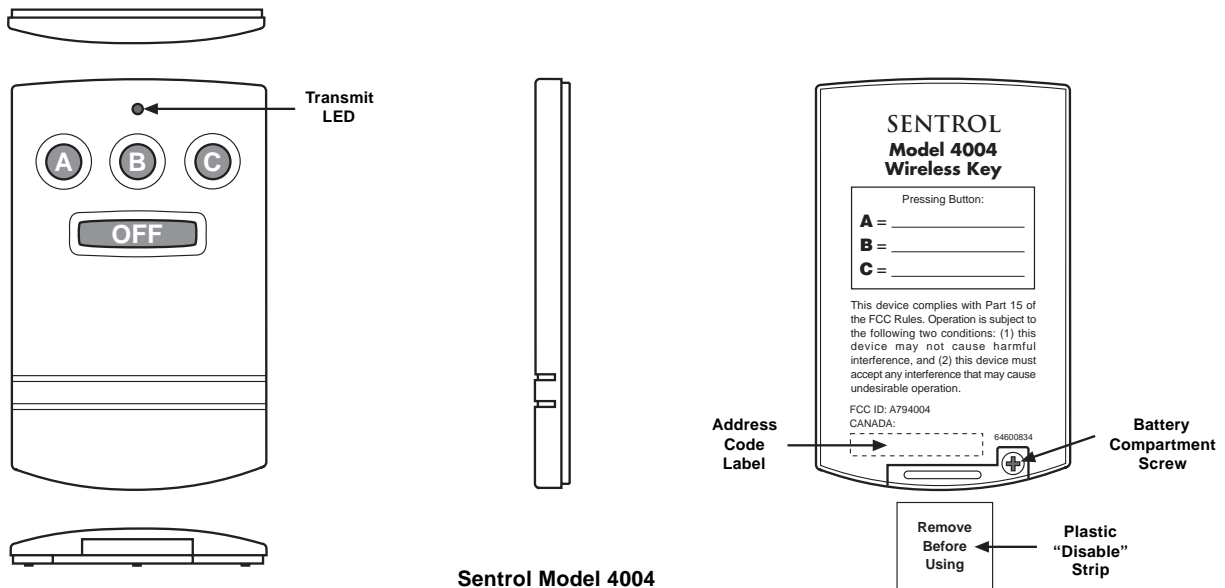
Wireless

Sentrol Model 4004

GENERAL INFORMATION

The Sentrol Model 4004 Four Button Wireless Key is designed to be used with Sentrol's 4000 Wireless System. The 4004 Wireless Key is provided with an encrypted "anti-cloning" code. This "anti-cloning" code will prevent a person from remotely capturing transmissions and then later using them to control or tamper with the system.

The 4004 is provided with a replacable 3 volt Duracell CR2032 lithium battery. The Model 4004 Wireless Key contains four buttons marked A, B, C and OFF. Depending upon the "Key Function Options" selected during the programming of the ZX200/ZX400 control and RF Gateway Receiver, the A, B and C buttons can function as Arming (Away, Stay, Night), Panic, Aux/Medical and other secondary functions. The OFF button will always be a disarm function.

The Model 4004 is a single address device and is programmed as a USER and not as a POINT (zone), therefore you do not lose one or more points (zones) when using the Model 4004 with your system. You can also set the "Authority Level" and "Operation Area" of this USER code which restricts the functions and area of this USER as described in the ZX200/ZX400 Programming Guides.

INSTALLATION
Read this section completely before installing!
These instructions will provide information on installation requirements and will address some installation situations to be avoided for best performance.

BATTERY INSTALLATION

The battery is installed in the Wireless Key during manufacturing. It has been disabled during shipment with a plastic strip. To enable the battery:

1. Look at the back, bottom edge of the Wireless Key. You will see a Phillips head screw holding the Battery Compartment closed.
2. Carefully remove this screw and slide the Battery Compartment out. Remove the plastic strip.
3. Slide the Battery Compartment back into the unit. The (+) positive marking of the battery should be facing down in the Battery Compartment. Replace the screw to secure the Battery Compartment.
4. With the battery enabled, press the OFF key. The Transmit LED should blink once.

PROGRAMMING

The Wireless Key is pre-programmed with a 6-digit ID address. This ID address is located on the back label and on a label on the box (example of code label 5 **123456** dddd r). This 6-digit ID address (underlined) will be needed to program this device into the RF Gateway Receiver and Control. ***You will need to consult the Installation and Programming manuals of the control for specific function options and detailed instructions.*** To summarize the steps:

Program the RF Gateway Receiver:

1. Enter Installer Level Programming.
2. Enter Programming Level 9.

3. Enter RF Gateway Address Number (ZX400 Controls Only).
4. Enter Device Number.
5. Enter the Keypad number that USER will be assigned to, followed by "Key Function Option number", followed by 6-digit transmitter ID.
6. Exit Programming

Program User Number and User Data into the Control:

1. Enter Installer Level Programming.
2. Enter Programming Level 5.
3. Enter USER number.
4. Enter the last 4 digits of the transmitter ID (5 12**3456** dddd r).
5. Exit Programming.
6. Enter Installer Level Programming.
7. Enter Programming Level 3.
8. Enter USER DATA values in address locations.

TESTING
Since the Wireless Key is a portable device there may be "blind" or "non operational" locations found during your tests. Normally these can be overcome if the Wireless Key is moved a short distance up, down, left or right. It should not matter how the Wireless Key is held in your hand. It is an omni-directional RF transmitter and should therefore transmit equally in all directions. This testing should be performed for all keys from multiple locations to ensure proper operation and control response exists.

For example, if the Wireless Key is to be used as an AWAY, STAY, NIGHT and OFF device from bedside, it should be tested from that location. If it is to be used from the car to perform the AWAY, STAY or Enter 4 (open/close garage door), then it should be tested from within the car in the driveway and garage. If it is to be used with the PANIC function while the User is in the basement, garden, or garage, then it should be tested for operation from those areas.

Once testing is complete, clearly identify to the Users any range or transmission limits found during testing. Review with the User the functions of the various keys. These functions can be written on the back label of the Wireless Key for easy User reference. Show the User the ID Address Label on the back of the unit. Explain that this ID Label contains their User Pass Code (last 4 digits of address) which they can also use manually, if needed, at the keypad. For this reason, they may want to remove the ID label and store it in a secure location.

USE AND CARE
The Sentrol Model 4004 Wireless Key should provide your customer with years of operation when properly maintained and used. The 4004 Wireless Key and the RF Gateway Receiver communicate using an encrypted code to prevent cloning. At times (battery replacement, multiple key presses while not in range, power loss at the receiver) the Wireless Key and RF Gateway Receiver may need to be re-synchronized. This can be done by pressing the same key (such as the OFF key) twice. The Wireless Key and RF Gateway should now be synchronized.

SPECIFICATIONS
Case Dimensions: 2.125 in W x 3.375 in H x 0.250 in D.
Environmental: Water Entry Resistant.
Operating Temperature: +32°F to 122°F (0°C to +50°C).
Battery Type: use Duracell CR2032 3V lithium or equivalent.
Battery Life: 5,000 transmissions or 1 year.
Low Battery Indications: Reported to Control and identified by User. Red LED on Wireless Key does not blink when button pressed.
Color: Cloud White.
Transmitter Frequency: 418 Mhz, Crystal Controlled Phase Lock Loop.
Free Air Range: 200 feet unobstructed.
Indoor Range: 100 feet typical.
Transmitter ID: Pre-programmed, 1 million distinct codes.
Modulation Type: FM.
Message Format: Encrypted FSK to prevent cloning.
Message Types: Distinctive message assigned to each of the 4 buttons based on selection of options.

FCC COMPLIANCE (USA)
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 undesired operation.

FCC ID: A794004

INDUSTRY CANADA COMPLIANCE (Canada)
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

SENTROL CONTROLS GROUP
PO Box 2904, 1510 Tate Blvd. SE
Hickory, NC 28603
Tel.: 503.692.4052   Fax: 503.691.7566
U.S. & Canada: 800.547.2556
Technical Service: 800.800.2027
FaxBack: 800.483.2495

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