ELK-6010 Wireless Keychain Remote Sensor (FOB)

APPLICATION

The ELK-6010 is a Wireless Two-Way Keychain Remote (FOB) with 4 buttons and a single LED feedback indicator. From this two-way remote it is possible to Arm, Disarm, interrogate (query) the Alarm System Status, and trigger other programmable events such as Panic Alarm, Relay activation, etc. The 6010 is compatible with Wireless Transceivers that utilize Elk's 'RFTW' two-way technology; such as, the ELK-M1XRFTW. Each time a push button is pressed on the 6010 it sends a unique TXID identifier to the transceiver and then listens for an acknowledgement.

The 6010 features Elk's Industry Leading Two-Way Technology, capable of on-demand status updates as well as extended range and long battery life.

SPECIFICATIONS:

Frequency: 902 Mhz - 928 Mhz frequency hopping
Dimensions: 1.37"W x 2.44"L x .52"D
Operating Temperature: 14° to 104° F (-10° to 40° C)
Relative Humidity: 5-95% Non-Condensing
Battery: Non-Replaceable, est. 5 yr life based on typical use
Unique TXID Code: Over 1 million combinations

Enrolling from M1 Keypad Installer Programming

1. Enter **M1 Keypad Installer Programming** and navigate to Menu: **14-Wireless Setup**
2. Press right arrow, then scroll up to Sub-Menu: **3:Learn Sel WirelessTransmtr**
3. Press right arrow, then scroll or select a unused/available **WZone** (wireless zone).
4. Press right arrow to **Lrn** (Enroll) a new sensor.
5. Press and hold Buttons 1 and 2 (Lock and Unlock) together as soon as the M1 Keypad displays **Push Transmitter Button**. The M1G voice will speak; "Press Transmitter button for zone xx".
6. Upon successful enrollment the Keypad will chime and briefly display the 6 digit TXID code of the sensor. If enrollment fails the TXID will not display. If that occurs; repeat steps 3 thru 6.
7. The Rapid-Enroll feature will auto advance to the next wireless zone in sequence and wait for the next enrollment. Simply repeat step 5 for each additional Keychain Remote.
8. To end Rapid-Enroll AFTER all wireless zones (sensors) are enrolled, press the ELK key one time.
9. Setting the Loop # - For Keychain remotes the Loop # setting does not matter!
10. No-Supervision - Press the ELK key to locate Sub-Menu: **2: Xmit Transmitter Opt**. Press the right arrow and scroll to the wireless zone belonging to the Keychain Remote. Press the right arrow and scroll up to option 02. Press the right arrow and enter "0" for No Supervision. NOTE: Keychain Remotes are not supervised. They DO NOT send supervisory check-in signals to the transceiver!

ZONE DEFINITION: After all wireless zones (sensors) have been enrolled proceed to Menu: **5 - Zone Definitions** to program the name, zone type, and any desirable options.

Program the Zone Definition for a 6010 KeyChain Remote as: 15-Keyfob.

Enrolling from ElkRP Software

1. Launch ElkRP and open the desired Customer Account file.
2. If no wireless zones currently exist in this M1 you will need to create a group of 16 wireless zones. In the folders column right click on **Zones (Inputs)** and then click **New Wireless Zones**. Place a check mark in the box beside the desired group, then click OK. Repeat if additional wireless groups are required. All expanded zones must be defined in groups of 16. The M1XRFTW wireless must always start at Zone 17 (Group 2) and the last wireless zone CANNOT be higher than Zone 160 (Group 10).

Note: M1 only allows Zones 17 to 160 to be used for wireless zones (max. of 144 wireless sensors). If a large number of wireless zones is expected, avoid conflict with any future Hardwired Zones in the range of zones 17 to 160 by NOT enrolling any Hardwired Zone Expanders (M1XIN) at data bus addresses below 10.

3. Double click on **Wireless - Group _** (the group just added), then double click one zone at a time to define a name, type, and options. Repeat for each wireless zone. It is more time efficient in ElkRP to program the Zone Definitions (name, type, and options) before moving to the Wireless Setup for entering the TXID and Loop number.
4. From the Folders column double click on **Wireless Setup** to setup and enroll the wireless sensors.
   4a. Click the **Transmitters** tab, then double click a zone.
   4b. Place a check mark in the **Enabled** box.
   4c. Set Supervision type to **0** - Keychain Remotes are Not Supervised.
   4d. Skip down to the **TXID box** and enter the Sensor TXID from the printed label located on the sensor.
   4e. **LOOP #** - For Keychain remotes the Loop # setting does not matter!
   4f. Click **Save**. Repeat the entire step 4 for each additional Wireless Zone and Sensor.

Keychain Remotes are commonly carried in a pocket or purse and frequently carried off-premises. Keychain Remotes are not designed to send supervisory check-in signals since they will often be out of operating range of the Wireless Transceiver. IMPORTANT! The programmable option for supervision must be set to NO on any wireless zone(s) used with Keychain Remotes. In the event the control ever displays a "Missing Transmitter" trouble for a Keychain Remote zone it is highly likely that the supervisory option is incorrectly set. Make sure the supervisory option is set to NO.

The 6010 two-way Keychain Remote displays confirmation of transmitted commands as well as M1 system status utilizing a two-color LED (Green/Red) Indicator. The 4 buttons (keys) on the 6010 can actually be used to trigger up to 6 defined events, programmable from the M1 Keypad [**Wireless Setup > Keyfob Defintions**] menu or ElkRP Software. NOTE: All buttons require at least a 1/2 second press duration to avoid accidental event activations. Some buttons require even longer durations (see below). By factory default buttons 1 thru 4 will trigger keyfob definitions 1 thru 4, pressing buttons 1 & 2 simultaneously will trigger definition 7, and pressing buttons 3 & 4 simultaneously will trigger definition 8. There is also an option, programmable by wireless zone, that allows buttons 1 thru 4 to be converted to respond as buttons 5 thru 8. This will allows 2 different users to have their own 4 triggerable events. The key (buttons) and their markings, along with the default functionality is as follows:

Key (Button) #1 Yellow [LOCK] - Default definition=0027 [Key Momentary **Arm-Away**]. Shortly after this button is pressed the status LED will illuminate RED if the Control has armed. Note: If the Control had a recent Alarm that was not cleared or acknowledged it will take 2 presses to Armlng. The first press will acknowledge the previous Alarm and illuminate GREEN.

Key (Button) #2 Green [UNLOCK] - Default definition=0029 [Key Momentary **Disarm**]. Shortly after this button is pressed the status LED will illuminate GREEN if the Control has disarmed. Note: If an Alarm is active this button will initially silence the Alarm, after which a second press will be needed to acknowledge the alarm and prepare the control for the next Arming.

Key (Button) #3 Blue [i] - This key has a dual role. A short 1/2 sec. press will trigger a status inquiry to the M1. The expected response will be: GREEN=System Disarmed, RED=System Armed, Flashing RED=System in Alarm (Memory), or Blank=Out of Range. OPTIONAL: Pressing and holding this button for 4 seconds will activate programmable definition 3. The default definition of button 3=0000 [blank]. It is up to the Installer to program the optional definition.

Key (Button) #4 Red [Triangle] - OPTIONAL: Pressing and holdiing this button for 2 seconds will activate programmable definition 4. Because of the 2 second press time this button is best suited for activating a Panic type of alarm. But the default definition of button 4=0000 [blank]. It is up to the Installer to program the definition for this optional feature.

NOTES: A special M1 firmware update is required to support keychain remotes assigned to partitions (Areas) 2 thru 8. If the M1 Transceiver experiences a total power loss the status displayed for partitions 2 thru 8 will be incorrect until such time as a keychain remote is used to physically change the partition status. ** Whenever the keychain remote is transmitting you may notice the LED faintly flicker, especially in dark or low light conditions. This is normal.

Operational Testing

1. The ELK-6010 Keychain Remote must be within range of the Wireless Transceiver.
2. Place the M1 Control in a Ready to Arm state by closing any open zones. Note: The Keychain Remote cannot manually bypass open zones but it can Force Arm the Control provided the open zones are programmed with the Force Arm option.
3. Arm the Control by pressing key (button) 1. Once the Control arms the Transceiver will send confirmation to the Keychain Remote causing the LED to illuminate solid RED for a few seconds.
4. Status Inquiry - The arm/disarm status may be checked at anytime by pressing key (button) 3 for 1/2 second.
   GREEN = Control Disarmed
   RED = Control Armed
   BLINKING RED = Control is in ALARM (Siren may have already timed out)
   NO LED = Out of Range
5. Disarm the Control by pressing key (button) 2. Once the Control has disarmed the Transceiver will send confirmation to the Keychain Remote causing the status LED to illuminate solid GREEN for a few seconds.
6. If programmed by the Installer the Emergency Panic alarm may be tested by pressing and holding key (button) 4 for approximately 2 seconds. Upon activation the LED will illuminate in FLASHING RED for a few seconds.
7. To acknowledge the Alarm press key (button) 2.

IMPORTANT NOTICES: Per UL a complete test of the security system and all zones should be performed once a week. Wireless devices cannot operate beyond the range of their Transceiver(s). If the Elk-6010 does not display visual LED feedback it is most likely out-of-range of the Transceiver. Other causes include: 1) not properly enrolled, 2) low or dead battery, or 3) the M1XRFTW Transceiver may be offline or disconnected and unable to respond.

Battery

The 6010 Keychain Remote battery is not-replaceable. When the battery reaches end-of-life it will be necessary to replace the Keychain Remote. The system will display a low battery alert prior to the end-of-life. There is a way to manually check the battery state. Press and continuously hold key (button) #2. After approximately 8-10 seconds you should see either a Green or Red blip. Green indicates a good battery and Red indicates battery near end-of-life. No blip indicates battery is dead.

Limited Warranty

The 6010 Wireless Keychain Remote is warranted to be free from defects and workmanship for a period of 2 years from date of manufacture. Batteries used with wireless devices are not warranted. Elk makes no warranty, express or implied, including that of merchantability or fitness for any particular purpose with regard to batteries used with wireless devices. Refer to Elk's website for full warranty statement and details.

BATTERY WARNING: Risk of fire, explosion and burns. Do not attempt to disassemble. Do not incinerate or expose to heat above 212° F (100° C). Dispose of used sensor and its battery properly. Keep away from children.

FCC COMPLIANCE STATEMENT:
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.

ELK-6010 Wireless Keychain Remote (FOB) FCC ID: TMAELK-6010

NOTE: ELK PRODUCTS IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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