

ELK-6010 v2 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: 1.50"W x 2.32"L x .50"D
Operating Temperature: 14° to 104° F (-10° to 40° C)
Relative Humidity: 5-95% Non-Condensing
Battery: CR2032 Lithium Coin Cell
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 the LOCK and UNLOCK Buttons together when the M1 Keypad shows **Push Transmitter Button**. The M1G voice will say: "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.

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.



6010 v2 New Look - Improved Design
Buttons; larger and easier to press
Icons; more visible and understandable
Battery; field replaceable

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.

The 6010 Keychain Remote has a two-color LED (Green/Red) that displays transmission acknowledgment and M1 system status. The 4 buttons on the 6010 can trigger up to 6 keyfob definitions, all programmable via the M1 Keypad [**Wireless Setup > Keyfob Definitions**] menu or ElkRP Software. By default keyfob definitions 1 to 4 are triggered by buttons 1 to 4. Keyfob definition 7 is triggered by pressing and holding buttons 1 & 2 simultaneously. Keyfob definition 8 is triggered by pressing and holding buttons 3 & 4 simultaneously. There is a wireless zone option which allows buttons 1 to 4 to be switched to respond as buttons 5 to 8, permitting 2 different keyfob owners to have their own 4 triggerable events. NOTE: To prevent accidental activations all buttons require a minimum 1/2 second duration press. Some buttons require longer press durations (see below). The buttons and their markings are:

LOCK Button (#1) - Default definition=0027 [Key Momentary **Arm-Away**]. Pressing this button should arm the control. The RED status LED should illuminate to confirm that the Control armed. Note: It may require 2 presses to Arm if a recent "unacknowledged" Alarm is still pending. The first press will acknowledge the previous Alarm and receive a GREEN LED response.

UNLOCK Button (#2) - Default definition=0029 [Key Momentary **Disarm**]. Pressing this button should disarm the control. The GREEN status LED should illuminate to confirm that the Control disarmed. If an Alarm is active this button will silence the Alarm and then a second press will be needed to acknowledge the alarm and prepare the control for the next Arming.

INQUIRY Button (#3) - This has a dual role. A short 1/2 sec. press will trigger a status inquiry to the M1. The LED responses are: GREEN=System Disarmed, RED=System Armed, Flashing RED=System in Alarm (Memory). No LED response indicates Out of Range. Pressing and holding this button for 4 seconds will trigger keyfob definition 3. The default programming for definition 3 is 0000 [blank]. It is up to the Installer to program the optional definition.

ASTERISK (Star) Button (#4) - Pressing and holding this button for 2 seconds will activate programmable definition 4. This button is intended for activating a Panic type of alarm. The default programming for definition 4 is 0000 [blank]. It is up to the Installer to program the definition if this button is intended to be used.

NOTES: If a 6010 is assigned to a partition 2 thru 8, and the M1 is operating with firmware older than 5.3.0, then a power reset may cause the displayed status to be incorrect until the 6010 is physically used to change the partition status.

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 (In low light conditions you may notice a faint flicker of the LED. This is normal)
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 off-line or disconnected and unable to respond.

Battery Replacement (6010 v2 ONLY)

Sensor should send a Low Battery trouble when the battery is near end-of-life. To Replace, locate the slot in the housings seam near the lower right side of the FOB. Insert a small flat screwdriver blade and apply a small amount of pressure. The case should separate into two halves. Carefully remove the components. Replace the Battery with a new CR2032 (Brand = Panasonic or Varta). Re-assemble components in the reverse order. Align the two case halves and gently squeeze to snap them back together. Battery can be manually tested by pressing and holding the UNLOCK button for about 3 seconds while watching the LED. One quick Green blip = Battery OK One quick Red blip = Battery Low

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 AND IC COMPLIANCE STATEMENT:

This device complies with Part 15 of the FCC Rules and Industry Canada License-Exempt RSS Standards. 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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

ELK-6010 Wireless Keychain Remote (FOB) FCC ID: TMAELK-6010 IC: 4353A-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.



PO Box 100 3266 US Hwy 70 West
Hildebran, NC 28637
Ph 828-397-4200 Fax 828-397-4415 <http://www.elkproducts.com>

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