ELK-M1KP KEYPAD RELEASE NOTES

Revised: May 22, 2012

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To obtain the latest Updates, go to the Elk Products website: **http://www.elkproducts.com**
NOTE: Control and peripheral Firmware update file(s) are separate from the Elk-RP software file.
- Firmware updates are contained in self-extracting (zipped) format for all the controls and for each individual accessory.
Scroll the available listings to locate the desired product download. Once the download dialog box opens, select the *RUN* option which will self-extract all the needed files (suffix .BIN) into the appropriate "Updates" directory on your computer. To update the component with the latest release please refer to the page titled "Steps for Updating."

We highly recommend reviewing these release notes prior to performing any firmware update. There's an old saying: "If it isn't broke, don't try and fix it." Consider whether the update resolves an important issue, or whether it simply adds a new feature. In some cases it may be best to leave a device at its current version. Before updating, always use ElkRP to RECEIVE ALL, then SAVE the panel's custom programming. Then after updating, connect and SEND ALL to restore the custom programming. With any update there is always a possibility that a glitch or failure can occur and render the control or component unusable. We recommended having a spare board on hand in case a problem is encountered during/after the update. Although such problems are rare, having a spare is a good precaution.

NOTE: Telephone Dial-up connections cannot be used to perform firmware updates. Firmware updating requires a Direct to PC (Serial) Com port connection OR a M1XEP Ethernet connection.

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Procedures for Updating Firmware

1) Connect a 9 pin serial cable or USB to serial adapter from the Computer to the 9 Pin RS232 Connector on the M1 Control. If you happen to have a M1XEP Ethernet module installed on the control, it may also be used for updating.

2) Using ElkRP, open the account belonging to this control and establish a connection from the Connection menu.

3) Use the “Receive All” option from the Send/Rcv menu to retrieve the very latest copy of all the data stored in the control.

4) Save the account information.

5) Click on the “Send/Rcv” menu/icon along the top of the PC screen, then click either “Update or Verify Firmware” OR “Enroll/Update Control and Devices”

6) On the next screen you must choose the device to be updated.

7) The Update screen will display the current Firmware, Hardware, and Bootware version, along with pull down selection to select the update file(s) that are available.

8) Choosing an update:

   9a) **Bootware Update:** <u>This step may be skipped unless specifically required by the firmware update. Please refer to the release notes for the current update.</u>

   Use the scroll arrow to select the Bootware file for this update. Based on the hardware revision there may be more than 1 file. Just make sure the file selected contains the word “BOOT” and the current (latest) version number.

   Select Update. Once the bootware update is complete you may proceed to the Firmware Update. The control may disconnect after the bootloader is finished. If so, just re-connect and continue on with the Firmware Update.

   9b) **Firmware Update:**
   Use the scroll arrow to select the appropriate Firmware file for this update. Based on the hardware revision there may be more than 1 file. Just make sure that the file selected contains the current (latest) version number.

   <u>NOTE: if the latest firmware does not appear in the drop-down box, or if the message “NOT COMPATIBLE” is displayed, this generally indicates the control needs to first be updated with the latest bootware.</u>

9) Select Update. (In some instances the Update button may be labeled “Continue”).

May 22, 2012 - M1KP New application firmware (2.1.54)

NOTE: Keypads must have Bootloader version 3.0.14 in order to be updated with this new application code..

Changes effective with this Firmware version:

1) Corrects an issue that was discovered in Installer Level Programming when attempting to use the BYPASS key while editing a telephone number. The intended function of the BYPASS key is for deleting a character or number.

Mar 20, 2007 - M1KP New application firmware (2.1.48)

NOTE: Keypads must have Bootloader version 3.0.14 in order to be updated with this new application code..

Changes effective with this Firmware version:

1) 24 Hour Time display - Resolved an issue that would cause keypad to display in 12 hr format from midnight till 1:00am.
2) Partial error tone - Eliminated partial error tone that occurred when function key is only programmed with text name.
3) Reading of a Prox card - Resolved! A Prox card read is supposed to be processed the same as a code entry from the keypad buttons. The keypad will respond with 6 beeps on Arming by a Prox card, 4 beeps on Disarming, and 5 beeps on an Access ONLY.

Sept 8, 2006 - M1KP New application firmware (2.1.46)

NOTE: Keypads must have Bootloader version 3.0.14 in order to be updated with this new application code..

Changes effective with this Firmware version:

1) Added software buffering to reduce problems associated with pressing keys faster than the M1 can react. It is still possible to intentionally “outrun” the keypad until it gets into the menu mode but it is much more difficult.

July 19, 2006 - M1KP New application firmware (2.1.44) and bootware (3.0.14)

Changes effective with this Firmware version:

1) **Force Arm Routine** - A change was made to the force arming routine that coincides with a modification effective with M1/M1EZ8 firmware revision 4.4.2. If one or more zones are not secure (violated) and if each one is pre-programmed with the "Force Arm" option, the keypad LCD will blink its READY Light and immediately display READY FORCE b. The control can now be forced to arm with a single entry of a valid user code. Prior to this change it was necessary to enter a valid user code twice in order to force arm. The first code entry triggered the force arm message and the second entry of the user code would cause the control to arm. A great number of dealer complaints about the old functionality resulted in this change. Of particular importance was the case of motion detectors that happen to be aimed towards a keypad. By programming these motion zones with the force arm option the control will now permit arming even while the motion is violated. What force arming does is automatically exclude (shunt) the violated zone(s) from operation until they become secure (not violated), at which time they will be restored into an operative state. Force arming is also ideal for garage door applications.
2) **Keypad Backlight Upon Entry Delay** - The keypad backlighting will automatically change from its current light level to a level "6" whenever its primary partition's (Area) entry delay time begins. EXCEPTION: If this operation is not desirable then simply program the "Silent During Entry Delay" option to Yes (enabled).
3) **Keypad Backlight Upon Exit Delay** - The keypad backlighting will automatically change from its current light level to a level "6" whenever its primary partition's (Area) exit delay time begins. EXCEPTION: If this operation is not desirable then simply program the "Silent During Exit Delay" option to Yes (enabled).
4) **Keypad Backlight Upon Alarm** - The keypad backlighting will automatically change from its current light level to a level "6" whenever an alarm condition occurs.
5) **Potential buzz from keypad** - A change was made to make certain the audio amplifier on the keypad is now turned off whenever it is not needed. This should alleviate any potential for buzzing.
6) **Power Up Routine** - A change was made to disable any button presses for a few seconds after power up to allow the keypad to fully receive system status before sending commands to the control.
7) **Procedure for Entering Setup or bootloader mode** - A alternate method for entering the setup or bootloader mode was added. Pressing and holding the '*' for 15 seconds will cause the keypad to switch to setup (bootloader) mode to permit changes to the keypad address setting and several other technical options. The old method of pressing and holding the "*" and F5 key is still supported, however this new method was added to make operation consistent with the new M1KP2, which has no F5 key.
8) **Response timing issue with M1DBHR**- Corrected a compatibility issue caused by tolerance values. Occasionally a DBHR would still have the transmitter turned on when the keypad would start to respond causing a message to be interpreted incorrectly in the control with a variety of symptoms.
9) **Entering text descriptions -** Corrected a problem with ASCII input and using the left arrow as a backspace key to roll around to the end.

Bootloader:

1) **Address 16 Selection** - Resolved an issue which prevented a keypad from being set to address 16.
2) **Option to Erase Application Firmware** - Added function key F3 with a comfirm step to allow erasing of the Application code. This is primarily an Engineering test function and should not be used in the field under normal circumstances. DO NOT use this function unless told to do so by advice of the Elk Technical Support staff.