ELK-7TS Touchscreen Reference Guide for M1 Controls

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ELK-7TS Product Overview

The ELK-7TS is a 7” touchscreen, complementing M1 Cross Platform Control.
The all-new M1 touchscreen application introduces users to a fresh and modern interface for M1 systems.

NOTE
ELK-7TS 7” touchscreen is designed to be used in conjunction with physical M1 bus keypads. An M1-KP2 or M1 NAVIGATOR keypad must be installed for each keypad ELK-7TS is required to emulate.

Features

- Compatible with M1 Security & Automation Controls
- Connects to network via Wi-Fi
- Connects to M1 over local network
- Ultra Low Profile screen with slim wall mount plate
- Optional Desk Stand Available

Specifications

- 7” HD Display (1024 x 600 Resolution)
- Responsive capacitive touchscreen, with 5-point multi-touch
- G+G Gorilla Glass screen
- Wi-Fi Connectivity (802.11b/g/n 2.4GHz)
- Power: 12VDC, 1.5A
- Optional POE adapter available
- Size: 7.59” x 4.56” x 0.56”
- Max Number of Touchscreens Supported: Connecting via M1XEP = 4, Connecting via C1M1 = 1

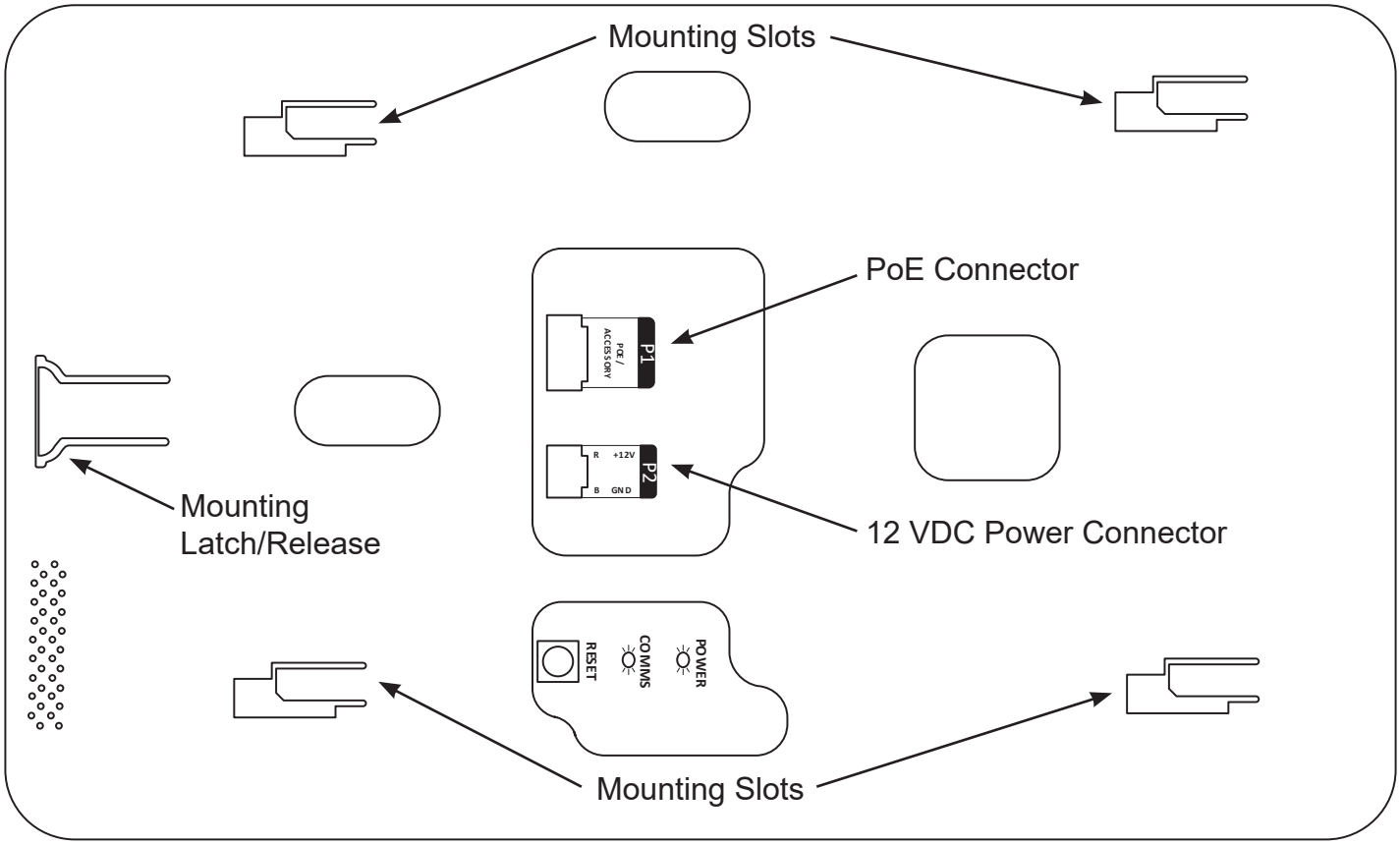
In the Box

- ELK-7TS - 7” Color Touchscreen
- Wall Mount Plate
- Mounting Hardware
- Wiring Harness

Optional Accessories

- **ELK-POE47TS** - Ethernet & PoE Adapter
- **ELK-DS47TS** - Desk Stand (Fixed 30°) (White)

Installation & Wiring



Back View of ELK-7TS

Wiring a 12VDC Power Supply

The ELK-7TS touchscreen can be powered by a 12-14 VDC, 1.5 Amp (ELK-P1417 recommended). A wiring harness is supplied to connect the power supply to the touchscreen. Connect the red wire on the harness to the positive terminal of the power supply. Connect the black wire on the harness to the negative terminal of the power supply. **Be careful to observe polarity!**

When using this method to power the ELK-7TS, the touchscreen can be connected to the local network via Wi-Fi. Alternately, the ELK-POE47TS can be used to connect the touchscreen to a standard (Non-POE enabled) network router or switch.

Connecting the ELK-POE47TS Ethernet & PoE Adapter

The ELK-POE47TS can be used as an Ethernet adapter when Wi-Fi is unavailable or not preferred. Using a standard network patch cable, connect the RJ45 port on the ELK-POE47TS to a network router or switch. When used in this manner, a separate 12VDC power source must be connected to the dedicated power connector of the touchscreen.

The ELK-POE47TS can also be used to provide both power and network connectivity to the ELK-7TS when used in conjunction with a PoE enabled switch or PoE injector. Using a standard network patch cable, connect the RJ45 port on the ELK-POE47TS to a PoE switch or injector. When used in this manner, power must be supplied by the PoE switch or injector.

Mounting the ELK-7TS using the wall mount plate

Ideal keypad mounting height is 50-58 inches above the floor. Select a location with an ambient temperature range between 32° and 120° F (0° to +49° C). Avoid direct sunlight if possible.

1. If using an electrical box, install the box per the manufacturer's instructions. Route wiring to the electrical box, ensuring enough wire is fed through the box to enable easy connection to the back of the touchscreen. If mounting directly to the wall, use the mounting plate to mark location of holes for wall anchors and wire cutout. Drill holes and install wall anchors. Route wiring to the wire cutout, ensuring enough wire is fed through the cutout to enable easy connection to the back of the touchscreen.
2. Fasten mounting plate to electrical box (or directly to wall). Ensure the four mounting tabs are turned in an upward position.
3. Plug power supply and/or PoE connector into the appropriate connector on the back of the touchscreen.
4. Align the mounting slots on the back of the touchscreen with the mounting tabs on the backplate. Take care to ensure all wires are neatly tucked behind the touchscreen.
5. With all mounting 4 tabs inserted in the mounting slots, shift the touchscreen to the right until it clicks into place and engages the mounting latch/release.

Mounting the ELK-7TS to the Desk Stand

1. Route wiring through the bottom of the desk stand and out the top, ensuring enough wire is fed through the box to enable easy connection to the back of the touchscreen.
2. Plug power supply and/or PoE connector into the appropriate connector on the back of the touchscreen.
3. Align the mounting slots on the back of the touchscreen with the mounting tabs on the backplate. Take care to ensure all wires are neatly tucked behind the touchscreen.
4. With all mounting 4 tabs inserted in the mounting slots, shift the touchscreen to the right until it clicks into place and engages the mounting latch/release.

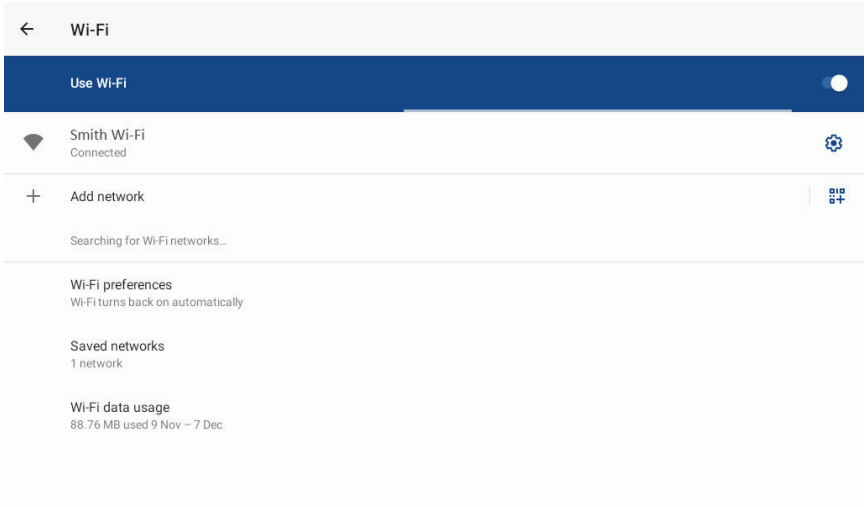
Configuration

Getting Started

The ELK-7TS touchscreen is designed to work with ELK's Alarm Engine and M1 Controls. When the touchscreen is powered up for the first time, an app selector will be presented. Select M1 Controls to install the M1 app on the touchscreen. The M1 app will be installed. When the installation is complete, the app will launch. From this point forward, the M1 app will automatically launch on power-up.

Connecting to Wi-Fi

The M1 app will search the local network for M1 systems. The M1 must be connected to the local network via the M1XEP Ethernet Interface or C1M1 Dual-Path Communicator. In order for the M1 app to find M1 systems, it must be connected to the local network. If the touchscreen is powered using a 12VDC power supply, it can be connect to the local network using Wi-Fi.



To connect the touchscreen to the Wi-Fi network:

1. Go to the main menu in the upper left corner and choose Display Settings.
2. From the display settings screen, choose Wi-Fi.
3. Ensure the Use Wi-Fi Toggle is on
4. Select the desired Wi-Fi network from the list
5. When prompted, enter the Wi-Fi password, then tap CONNECT.
6. The touchscreen will establish a connection with the Wi-Fi Network.
7. When connected, tap the back arrow in the upper left corner to return to the Display Settings page. Tap Exit to return to the "Let's Get Started" page.

Connecting to an M1 System

There are two methods for connecting to an M1 system; Local Discovery and Manual Setup.

Local Discovery

When using this method, the touchscreen will scan the local network and display a list of available M1 system.

1. From the "Lets Get Started" page, tap Local Discovery. A list of M1 systems will be displayed including the IP address, interface type (M1XEP or C1M1) and MAC address. In many cases, only one system will appear in the list.

   If no local systems are found, try the scan again by tapping SCAN LOCAL NETWORK FOR M1 SYSTEMS. If the touchscreen is unable to find any local systems, go back to the Wi-Fi settings menu to ensure the touchscreen is connected to the correct Wi-Fi network.

2. Tap the Create Profile button beside the desired M1 system. A New Profile screen will be populated with the configuration settings of the selected M1 system. Edit the profile settings as necessary. Profile settings are outlined below.

   Profile Name: Enter a short name for the profile.

   Local Network Connection via: This field is pre-selected based on the interface type (M1XEP or C1M1) identified during the discovery process.

   IP Address/URL: This field will be pre-populated with the IP address found during the discovery process

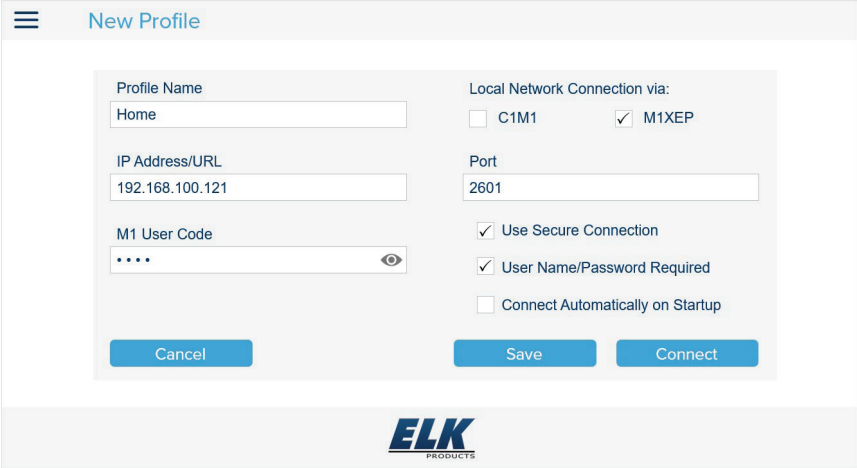
Port: This field is pre-populated with the secure port of the discovered device. If connecting via a non-secure port, change to the correct port number (The non-secure port must be enabled on the device).

M1 User Code: This field is pre-populated with a default user code 123456. Change this user code to a valid code programmed in the M1 system.

Use Secure Connection (for Connection via M1XEP Only): This box will be checked by default. Un-check if using a non-secure port for connection.

Username/Password Required (for Connection via M1XEP Only): This box must be checked when connecting to an M1 system over a secure connection. A login page will be displayed allowing the user to enter a username and password before connecting to the M1 system.

Connect Automatically on Startup: If desired, the touchscreen can automatically connect to a system upon power-up. This can provide a more seamless user experience after a power outage. Check to enable this feature.



3. After editing the profile settings, tap Connect to save the profile to the touchscreen and connect to the M1 system.

Manual Setup

When using this method, all profile settings are entered manually. This requires prior knowledge of the setup of the system. This option may be helpful for pre-configuration prior to installation, or when the network configuration may prevent local discovery.

1. From the “Lets Get Started” page, tap Manual Setup. A New Profile screen will be displayed.
2. Enter the required profile settings as outlined below.

   Profile Name: Enter a short name for the profile.

   Local Network Connection via: Select the appropriate interface type (M1XEP or C1M1) .

   IP Address/URL: Enter the local IP address of the M1XEP or C1M1.

   Port: Enter the port of the M1XEP or C1M1. For connection via M1XEP, this can be either the secure encrypted port or the non-secure port (if enabled on the device). For connection via C1M1, this must be the non-secure port.

   M1 User Code: Enter a valid user code programmed in the M1 system.

   Use Secure Connection (for Connection via M1XEP Only): Check this box when connected via a secure port. Leave unchecked if connecting via a non-secure port.

   Username/Password Required (for Connection via M1XEP Only): This box must be checked when connecting to an M1 system over a secure connection. A login page will be displayed allowing the user to enter a username and password before connecting to the M1 system.

   Connect Automatically on Startup: If desired, the touchscreen can automatically connect to a system upon power-up. This can provide a more seamless user experience after a power outage. Check to enable this feature.
3. After editing the profile settings, tap Connect to save the profile to the touchscreen and connect to the M1 system.

Installer Settings

The Installer Settings page is accessible from the main menu. An Installer Access code is required to access this page. The default Installer Access code is 172839. From this page, installers can edit their contact information. This information is viewable by the user when accessing the Help page. Installers can also change the Installer Access Code, perform updates to the touchscreen software, and factory default the touchscreen.

Operating Guide

The M1 app on the ELK-7TS provides a clean modern user interface for controlling an M1 system. It is not designed or intended for M1 system programming or configuration.

Basic Navigation

Home Page

This page provides quick access to all the main category pages in the app. There is also a main menu icon in the upper left corner.

Main Menu

Tap the ≡ icon to access the main menu. This menu provides access to general information, settings, and commands.

About: Displays software version information and touchscreen serial number.

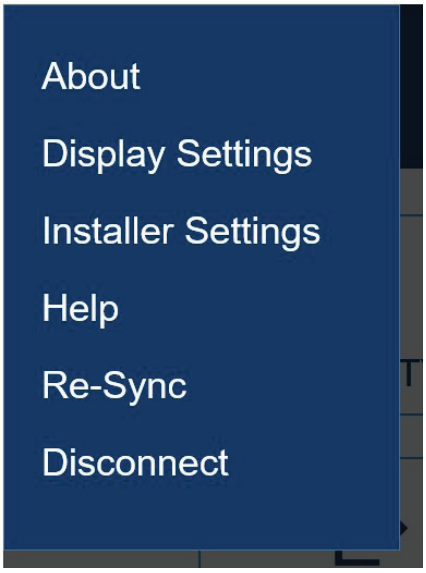
Display Settings: Provides access to Wi-Fi, Volume, Brightness, and Sleep settings. Also provides Clean Screen function.

Installer Settings: Requires Installer Access Code. Provides access to installer info, software updates, and default functions.

Help: Displays installer contact information.

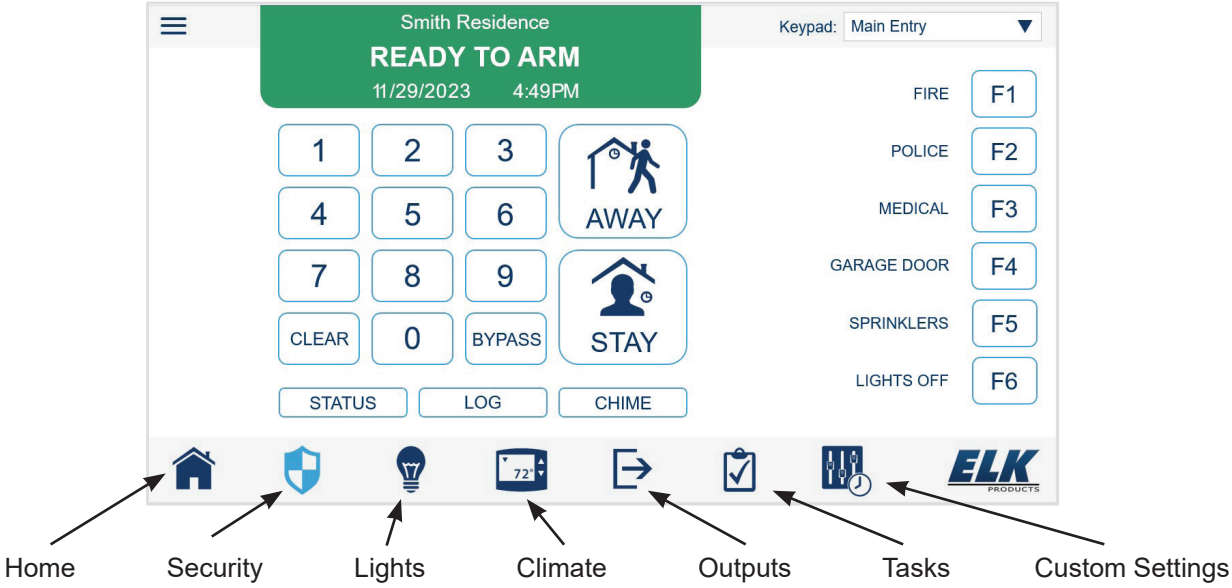
Re-sync: Allows manual synchronization of data with M1 system.

Disconnect: Terminates connection between touchscreen and M1 system.



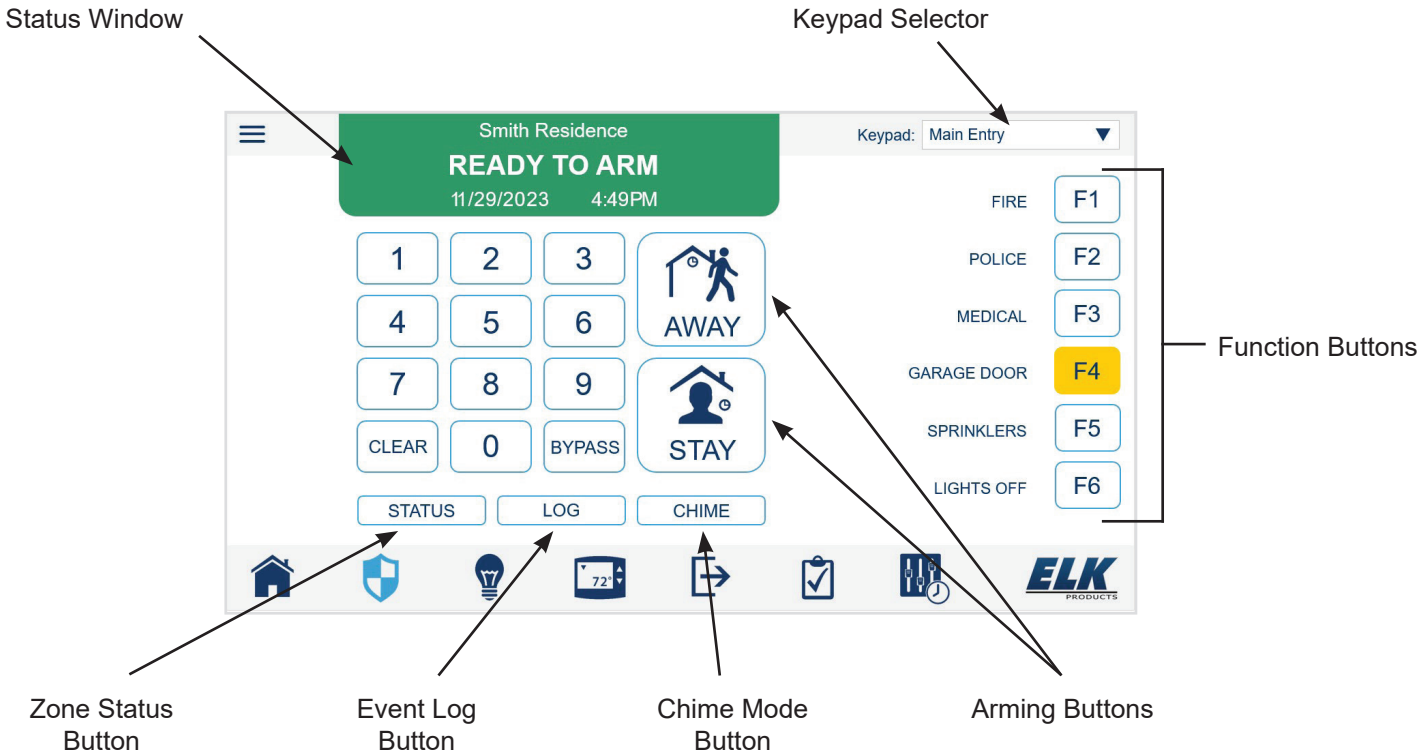
Quick Menu

When navigating throughout the M1 app, each page (except the Home page) features a quick menu at the bottom of the page, providing easy access to other pages within the app.



Security

The Security page displays overall system status and provides controls for the security aspects of the M1 system, including many of the operational capabilities that are available from a physical keypad.



Status Window: Displays current arm status/mode, date, and time. It also displays system messages for chime and bypass features.

Arming Buttons: Allows single or double press arming of the system, if allowed by the system. Also facilitates switching between arm modes.

- **Away Button:** Arms to Away Mode, toggles to Vacation Mode
- **Stay Button:** Arms to Stay Mode, toggles to Stay Instant, Night, and Night Instant (Some modes not available on all systems)

To toggle the arm mode, click the quick arm key multiple times. Note: Use of quick arm Exit and Stay keys requires the M1 system to be programmed to allow single or double key press quick arming. If the quick arm feature has been disabled in programming, a valid code entry is required to arm the system.

Function Buttons: These six “F” buttons may be used as panic buttons or to perform other function such as open/close the garage door, turn on lights, etc. A description appears under each button, indicating its function. The button may also illuminate (as shown on the F4 button in the example above) to indicate the alarm is activated, the garage door is open, the light is on, etc. The function and illumination event of each button is determined by the programming configuration of the M1 system.

Keypad Selector: This drop down box allows you to change which keypad you are viewing, if multiple keypads exist in the system.

Chime Mode Button: This button is used to activate the Chime feature. This feature provides an audible alert when certain doors, windows, etc. are violated. There are four different selections for the Chime Feature: Tone, Voice, Tone/Voice, and Off. Click the Chime button to toggle between the selections. The Status Window will display the Chime mode as the key is pressed. When the chime is active the button is illuminated.

► When the Chime is activated in voice mode, the voice messages can be heard on the speakers connected to output 1 only. The M1 app does not output voice chime messages.

Bypass Button: This button is used to temporarily exclude a zone from the system, preventing it from activating an alarm. The zone is excluded until the system is disarmed, or the zone bypass is canceled.

Bypassing an Individual Zone

1. Press the # button
2. Enter the number of the zone you wish to bypass
3. Press the # button again
4. If the zone is bypassed, the status window will display Ready w/Bypass

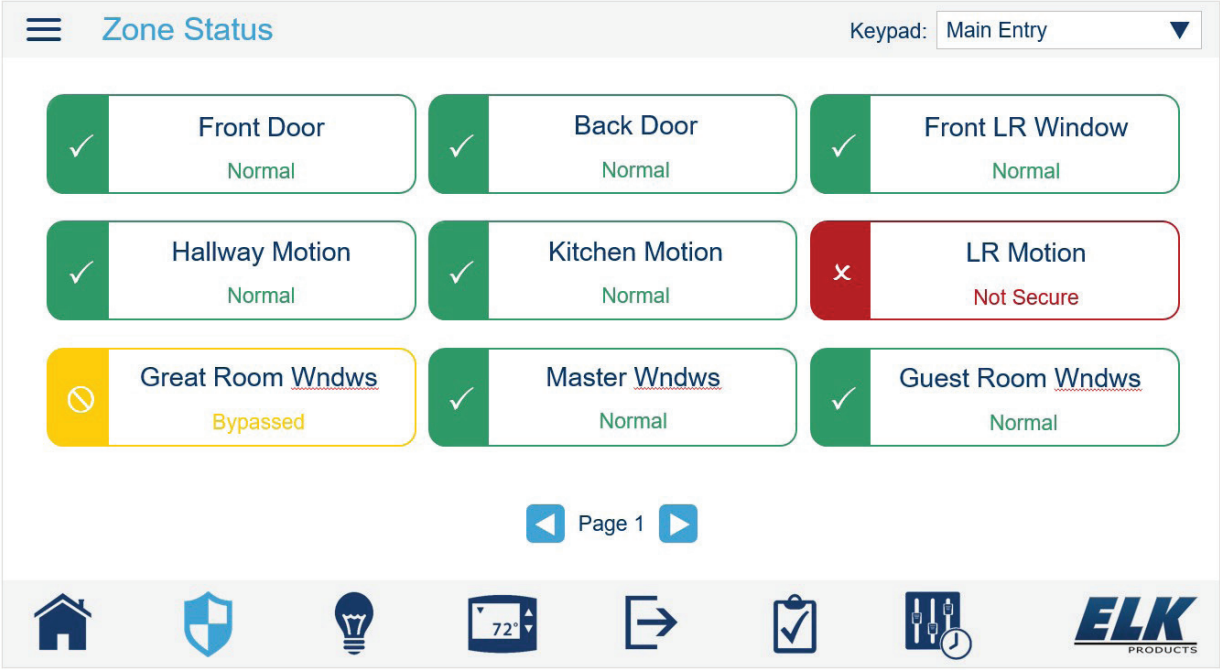
A zone bypass can be canceled by repeating the steps above.

Quick Bypass of Violated Zones

This feature allows you to easily bypass all violated zones.

1. Press the # button
2. Enter 999
3. Press the # button again
4. If the Quick Bypass is accepted, the status window will display Ready w/Bypass

► Only zones that have been programmed as bypassable can be bypassed. Furthermore, bypassing of zones is only available if the user code which was used to connect to the M1 app actually has the bypass privilege enabled.



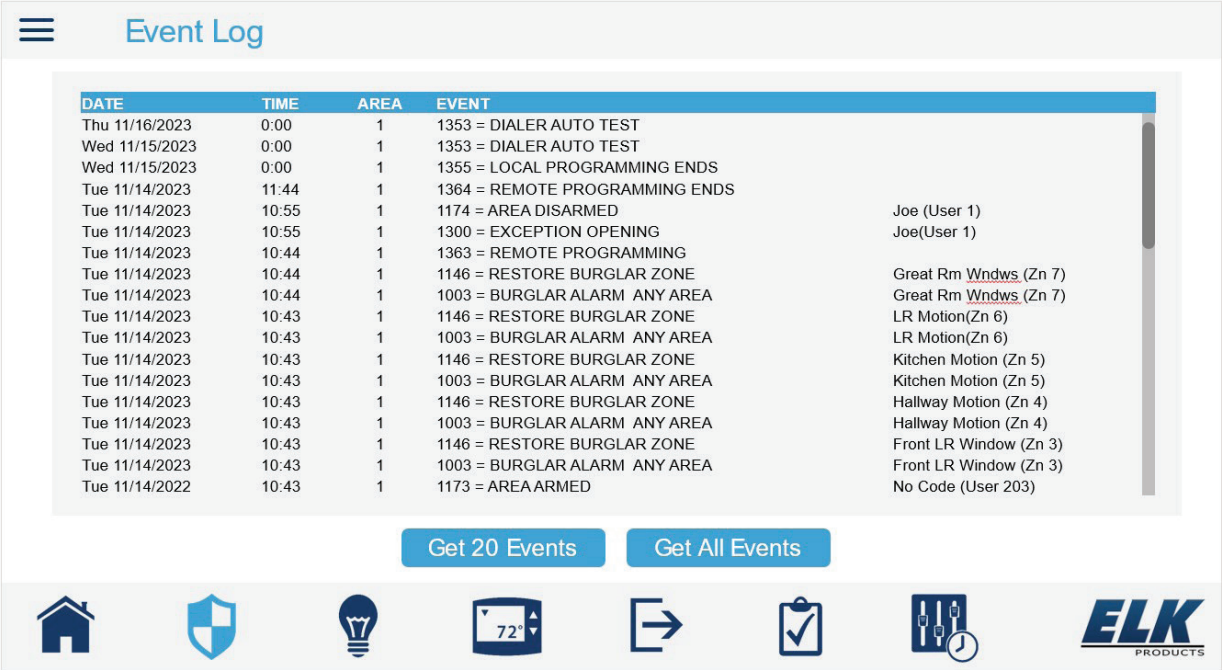
Zone Status Button: Displays the Zone Status pages. Each page provides a quick view of the current status of up to 12 zones at a time. A status indicator is displayed in left side of each zone button. The button displays the zone name and current status. A zone can be easily bypassed by tapping the zone button (zone must be configured to allow bypassing).

Indicates zone is normal or secure

Indicates zone is violated or not secure

Indicates zone is bypassed

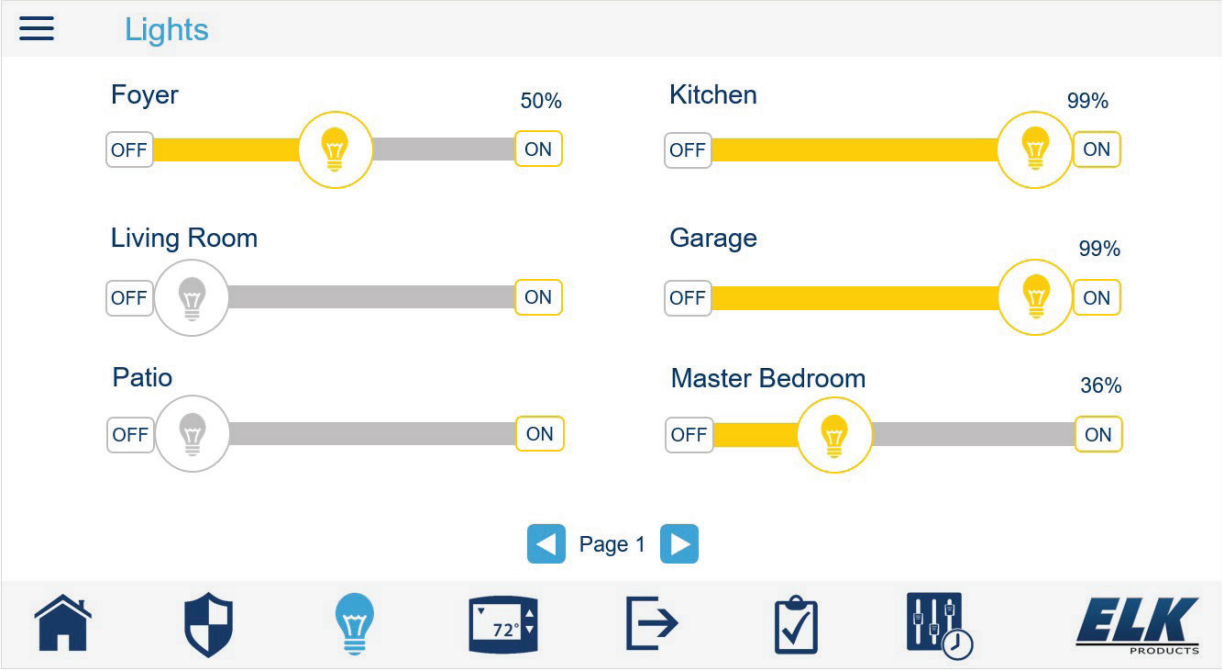
Each page displays up to 12 zones at a time. If the system has more than 12 zones additional pages of zones to be accessed using the navigation buttons at the bottom of the page or swiping left /right.



Event Log Button: Click this button to access the event log which contains security and system event information such as arming, disarming, zone bypassing, alarms, troubles, etc. The event log displays information for each event including the date and time the event occurred and a description of the event. You can view the newest 20 events or the entire log by clicking the corresponding button.

Lights

The Lights page provides a list of lights that have been configured in the M1 system. Each page displays up to six lights at a time. If the system has more than six lights, additional pages of lights can be accessed using the navigation buttons at the bottom of the page or swiping left /right.

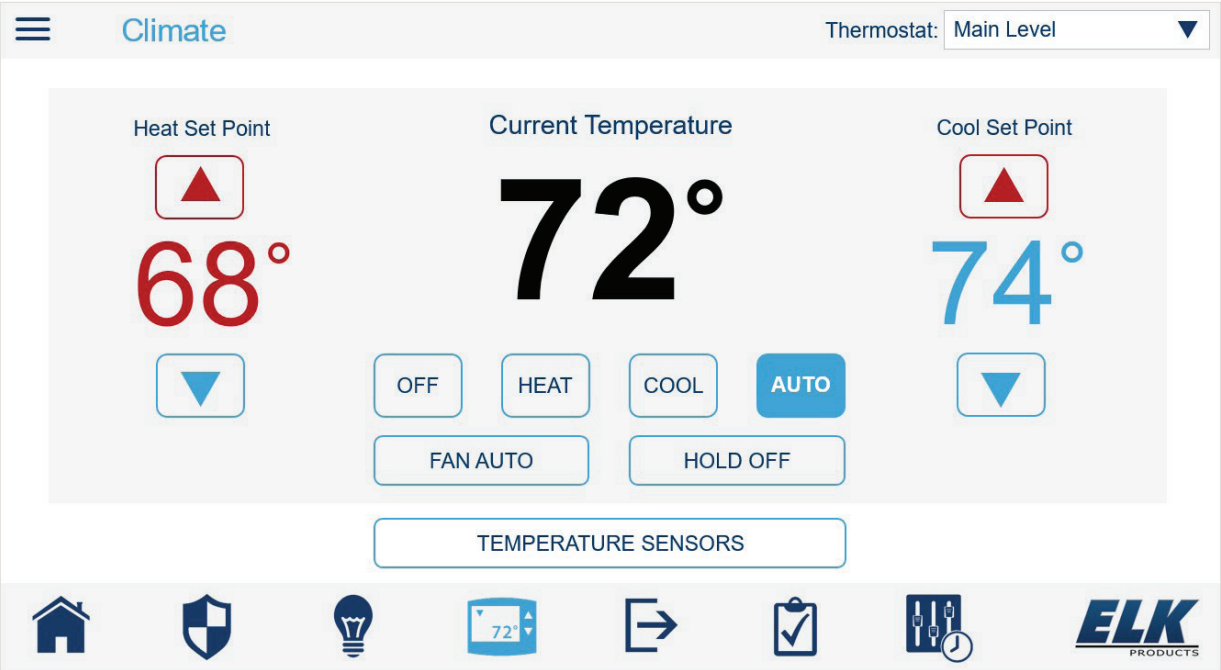


Lights can be controlled using the Light buttons and the sliders. Click on the Light button to turn the light on and off. To adjust the bright/dim level of the light, adjust the slider.

► Not all light formats support bright/dim commands. If these commands are not supported, use of the slider will automatically result in an ON command.

Climate

The Climate pages allow you to control thermostats connected to the system and view the current temperature of the keypads and temperature sensors connected to the system. Temperatures may be displayed in Fahrenheit or Celsius as determined by M1 system configuration.



Thermostats

If thermostats are programmed in the system, the Thermostat page will be displayed when the Climate button is pressed.

The current temperature at the thermostat is displayed in the center of the page.

Selecting Thermostats: A navigation dropdown in the upper right corner of the screen allows additional thermostats to be accessed.

Heat Setpoint: Use the up and down arrows to adjust the Heating setpoint. The current setpoint is displayed between the up and down buttons.

Cool Setpoint: Use the up and down arrows to adjust the Cooling setpoint. The current setpoint is displayed between the up and down buttons.

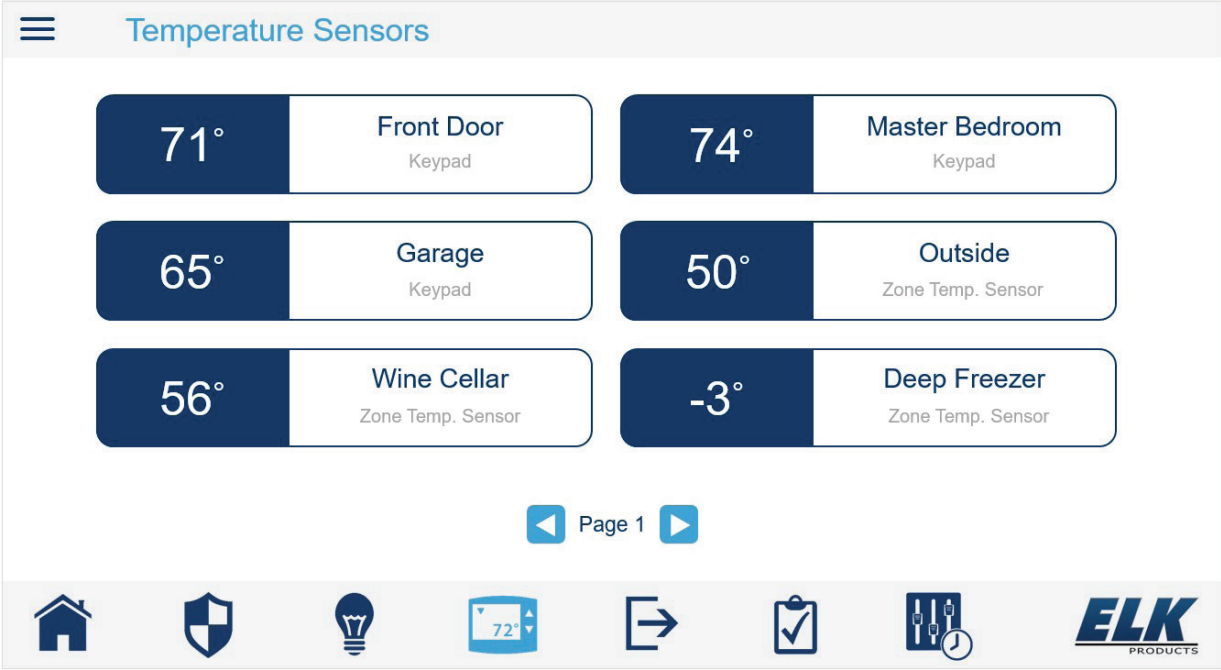
Off, Heat, Cool, Auto Buttons: These buttons allow you to change the thermostat mode.

Hold: This button allows you to turn the Hold setting On or Off.

Fan: This button allows you to change the fan setting to Manual or Auto.

Temperature Sensors

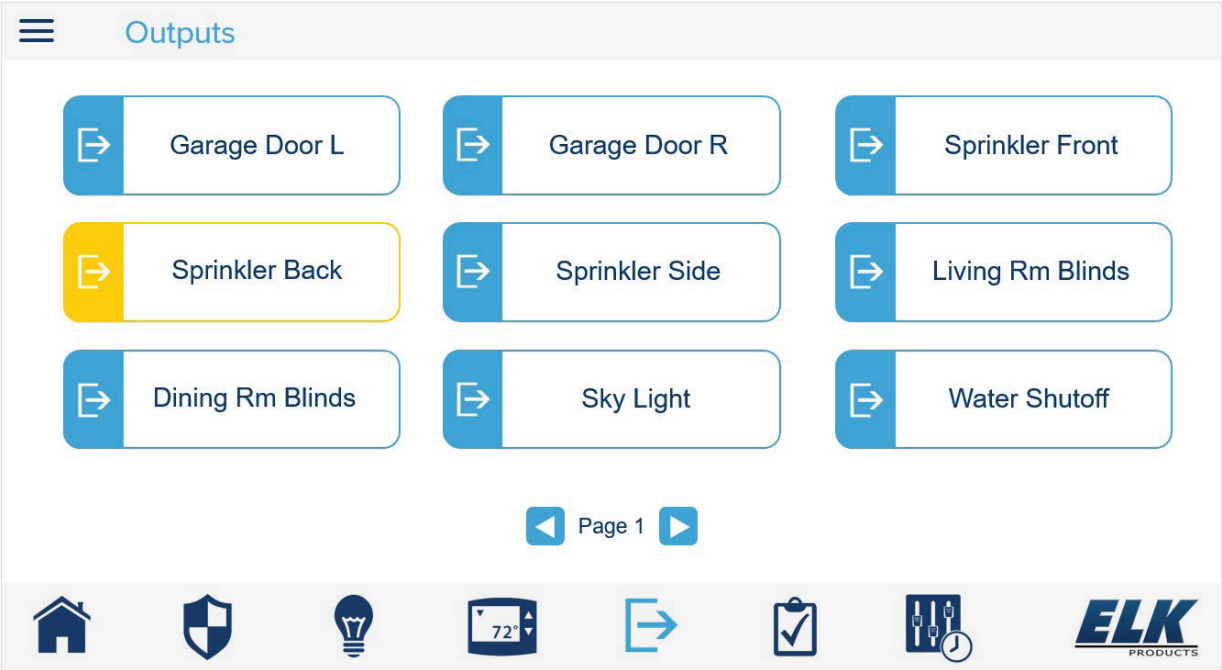
The Temperature Sensors button provide access to view other temperature sensors configured in the M1 system. The Temperature Sensors page displays the current temperature of keypads with internal temperature sensor and zone temperature sensors connected to the system. The system can have a maximum of 16 keypads and 16 temperature probes.



Each page displays up to six temperature sensors at a time. If the system has more than six temperature sensors, additional pages can be accessed using the navigation buttons at the bottom of the page or swiping left /right.

Outputs

The Outputs page displays a list of outputs configured in the M1 system, showing current status and allowing control of each output. Outputs may be used to open/close the garage door, open/close blinds, turn on/off sprinklers, etc.

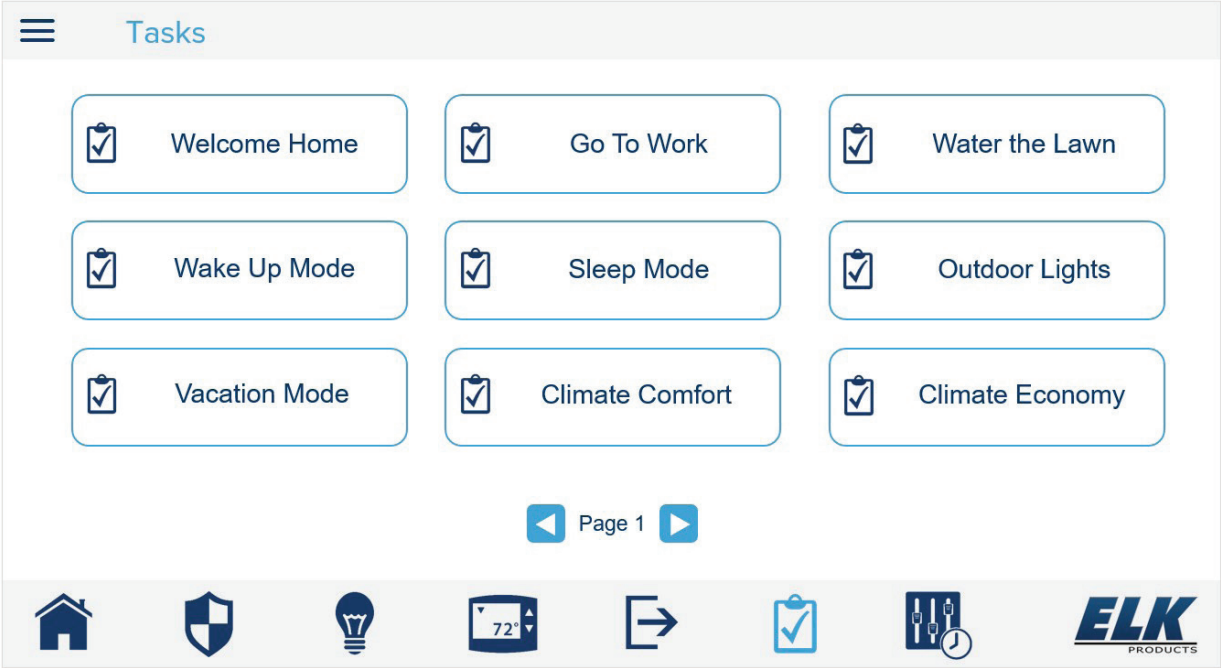


An output can be turned on or off by tapping the output button. The button will be illuminated (yellow) when the output is on.

Each page displays nine outputs at a time. If the system has more than nine outputs, additional pages can be accessed using the navigation buttons at the bottom of the page or swiping left /right.

Tasks

The Tasks displays a list of tasks configured in the M1 system and allows activation of those tasks.

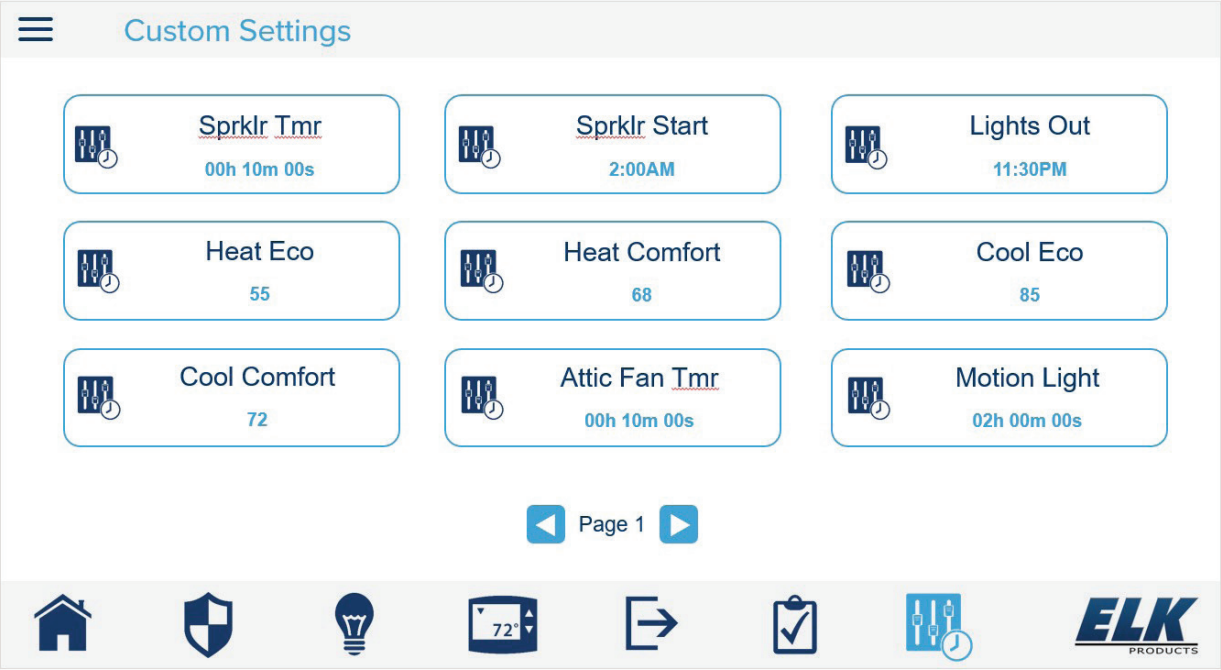


To activate a task, simply click the button of the task you want to activate.

Each page displays nine tasks at a time. If the system has more than nine tasks, additional pages can be accessed using the navigation buttons at the bottom of the page or swiping left /right.

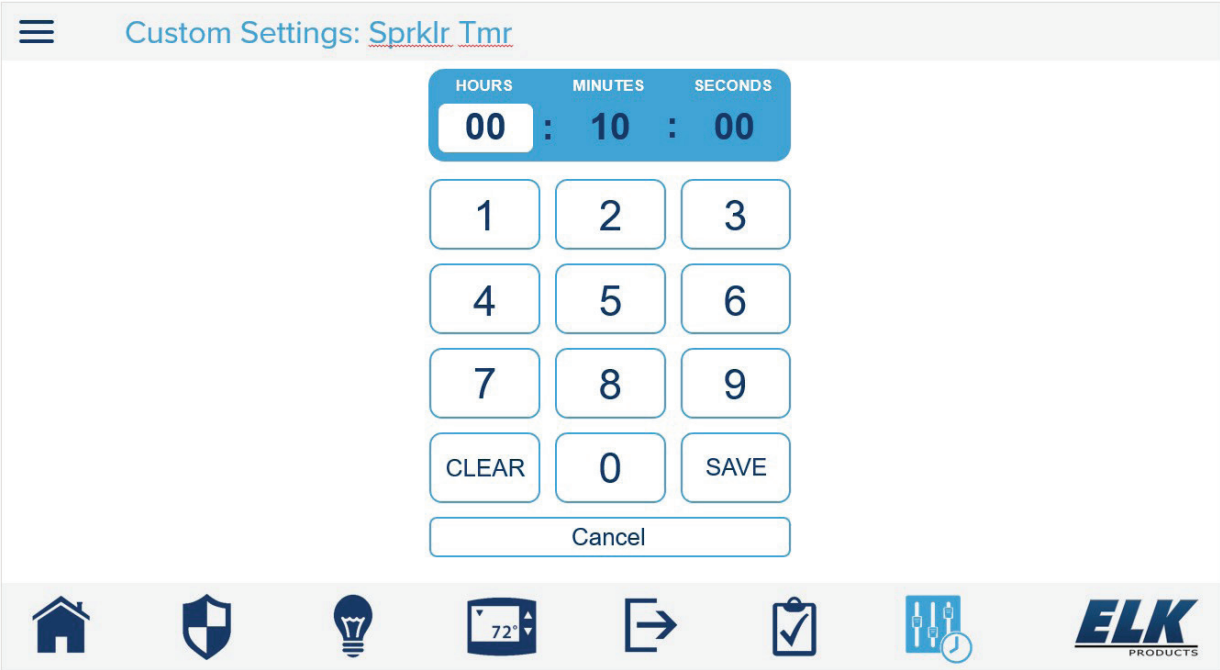
Custom Settings

The Custom Settings page displays a list of custom settings configured in the M1 system and allows adjustments to be made to the value of those custom settings. Custom settings are used to change certain aspects of the way the M1 system is programmed. For instance, you may want to adjust the time that the lights or sprinklers come on, or how long they stay on.



Each page displays up to nine custom settings at a time. If the system has more than nine custom settings, additional pages can be accessed using the navigation buttons at the bottom of the page or swiping left /right.

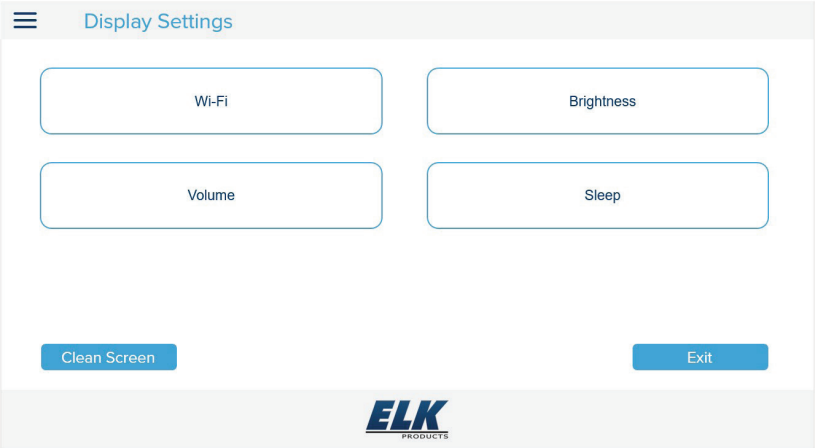
The Custom Settings pages display the current setting below of the custom setting name. To make an adjustment to a custom setting tap the custom setting button. This will display a edit page for that setting. Use the number pad to make the desired adjustment to the setting. Then tap SAVE to save the new value.



A custom setting may be a timer, a time of day, or a number. If the setting is a timer, this page will allow you to change the duration of the timer in hours, minutes, and/or seconds. If the setting is a time of day, this page will allow you to choose a different time of day in the 12 hr. format with AM or PM indications. If the setting is a number, this page will allow you to enter a number between 0 and 65,535.

Display Settings

The Display Settings menu provides access to Wi-Fi, Volume, Brightness, and Sleep settings. Also provides a Clean Screen function. To access Display Settings, tap the main menu icon in the upper left corner, then choose Display Settings.

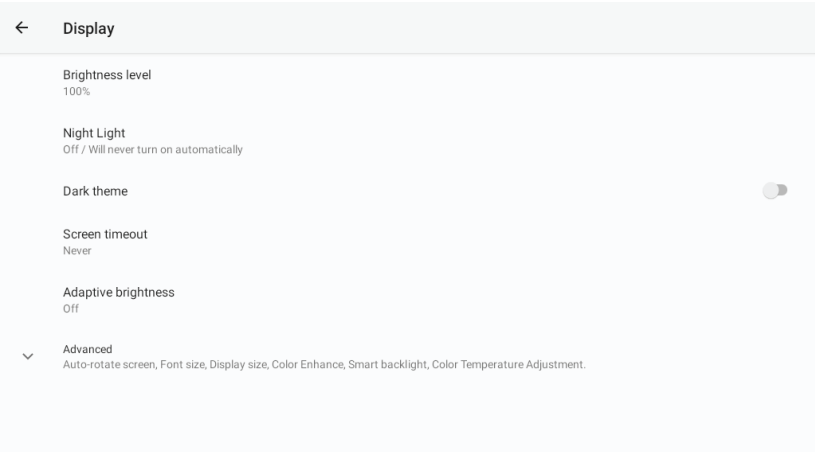


Wi-Fi: Tap this button to view or change Wi-Fi settings. The W-Fi page shows the name and signal strength of the Wi-Fi network the touchscreen is currently connected to. It also shows other available Wi-Fi networks and Wi-Fi preferences. When finished making changes, tap the back arrow in the upper left corner.

Brightness: Tap this button to view or change the brightness level and other brightness settings. When finished making changes, tap the back arrow in the upper left corner.

Volume: Tap this button to view or change the volume settings. On the Sound page, there are three volume settings. The Media volume controls the sound level of the tones from the M1 app. When finished making changes, tap the back arrow in the upper left corner.

Sleep: Tap this button to change the Sleep (Screen timeout) settings. This setting determines when the screen will go dark after inactivity. When finished making changes, tap the back arrow in the upper left corner.



Clean Screen: This button provide a 30 second window when the touchscreen will not respond to touch, allowing the glass surface of the screen to be cleaned. During the 30 second window, a countdown timer will be displayed, showing the time remaining before the screen returns to normal operation.

Cleaning Recommendations:

1. Remove Dust and Debris: Gently blow or use a can of compressed air to remove any loose dust or debris from the screen and surrounding areas.
2. Use a Microfiber Cloth: Microfiber cloths are ideal for cleaning electronic device screens as they are soft and won't scratch the glass. Wipe the screen in a circular motion, applying light pressure. Avoid pressing too hard, as this could damage the screen.
3. Dampen the Cloth (Optional): If there are stubborn smudges or fingerprints, you can dampen the microfiber cloth slightly. Use distilled water for this purpose. Avoid using tap water, as it may contain minerals that can leave residue. Ensure the cloth is not too wet; you don't want excess moisture to seep into the touchscreen. If there are stubborn stains or germs, you can use a solution of isopropyl alcohol and distilled water. Mix it in equal parts and dampen the cloth slightly. Do not apply the solution directly to the screen. Wipe the screen gently, applying minimal pressure. Avoid pressing too hard, as this could damage the screen. After cleaning, allow the screen to air dry or use a dry section of the microfiber cloth to ensure there is no remaining moisture.
4. Repeat if Necessary: If there are still smudges or marks, repeat the process. Avoid using excessive force or abrasive materials.
5. Avoid Harsh Chemicals: Do not use harsh chemicals, such as ammonia-based cleaners or abrasive materials like paper towels, as they can damage the screen.

Exit: Tap this button to exit the display settings page and return to the previously viewed page.

Regulatory Statements

FCC AND IC 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 residential 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- L'appareil ne doit pas produire de brouillage;
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISEC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except those approved for co-location with this device according to multi-transmitter guidelines.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISEC RSS-102 établies pour un environnement non contrôlé. Cet émetteur doit être installé pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou émetteur à l'exception de ceux approuvés pour la colocalisation avec cet appareil conformément aux directives multi-émetteurs.

CAN ICES-3 (B)/NMB-3(B)

ELK-7TS 7" Color Touchscreen for Alarm Engine & M1 Controls
FCC ID: TMA-ELK7TS IC: 4353A-ELK7TS

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