

# ELK

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## PRODUCTS



## Product Catalog

Solutions for Serious Security and Automation Professionals



# INNOVATIVE SECURITY

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**Connect with us online!**



## M1 Security & Automation Controls

Pg.6



### FLEXIBLE AND INTEGRATION FRIENDLY

ELK's M1 Controls incorporate security, fire, door entry control, plus energy & task management to provide total home or business control. By working with products from a variety of industry partner manufacturers, M1 controls offer a truly integrated solution. These IP accessible systems provide simple, yet powerful on-site and remote user interfaces, giving the consumer full control anytime, from anywhere.



## C1M1 Dual-Path Communicator

Fast, full reporting to Central Monitoring Stations over IP and cellular, plus remote access without port forwarding or additional fees.

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### SECURE. RELIABLE. INNOVATIVE.

ELK's Two-Way Wireless products use cutting-edge techniques to defend against interference, hacking, and jamming, while incorporating advanced features to ensure reliability, extend battery life, simplify installation, and enhance security.



## Two-Way Wireless Technology

Pg.20

# AND AUTOMATION SOLUTIONS

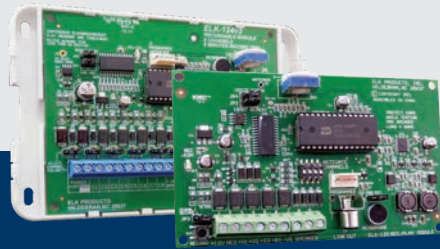
## Recordable Voice Modules

Pg.42



## ADD VALUE TO VIDEO SURVEILLANCE INSTALLS WITH CUSTOM VOICE ALERTS

Activating custom voice messages using video based triggers allow installers to tailor video surveillance solutions, adding value for customers and increasing revenue. Easily add custom messages with ELK's recordable voice modules.



Complete the installation with ELK Speakers and Power Products

## BEAUTIFULLY SIMPLE.

ELK's stainless steel enclosed sirens and speakers naturally reflect the mounting surface, blending easily into the surroundings. With the rugged, compact design and corrosion resistant stainless steel construction, these sirens and speakers are perfect for any installation, even in harsh environments.



## Stainless Sirens & Speakers

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## EVERYDAY ESSENTIALS

Structured Wiring  
Pg.34



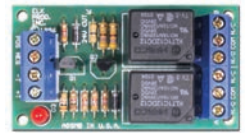
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## Our Mission

To provide cost-effective and innovative security and automation solutions to the professional trade with unsurpassed product quality and technical support.



## What We Do

ELK is a leading designer and manufacturer of customized home and business security, energy management and convenience solutions. For over 25 years, we have created a trusted brand with simple, yet innovative products that have now become industry standards. Our award winning customer service and tech support staff are North Carolina friendly. We stand behind the products we sell with industry leading support and warranties.

We are focused on creating products that secure and simplify life. In the rapidly changing security and automation market, ELK offers an integrated approach that delivers full featured and personalized solutions for security, lighting, environmental control, energy conservation, access control, and management of just about any electrical feature in the home or business.

Let the ELK team help create a personalized solution to meet your customer's lifestyle, budget, and tastes with reliable, simple to use, state of the art products.



## Want to learn more or need assistance?

Whether you are new to ELK, transitioning from another system, or need assistance with integration, we are here to help. Get specialized training for your team with our convenient online training sessions. These sessions give your team live access to an expert product support specialist, providing the latest product information, installation tips, and programming advice.

Email [training@elkproducts.com](mailto:training@elkproducts.com) to schedule a session today!



### TRAINING VIDEOS ON YOUTUBE

Find how-to videos, product demos, recorded webinars and more on our YouTube channel.

**Subscribe today to stay up-to-date on all things ELK!**

[www.youtube.com/elkproductsvideo](http://www.youtube.com/elkproductsvideo)



### ONLINE SUPPORT TOOLS

Find product manuals, hookup diagrams, application notes and other support tools on our website:

[www.elkproducts.com/support](http://www.elkproducts.com/support)

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# Discover M1 Controls

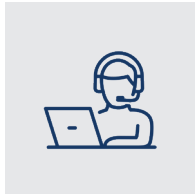
ELK offers proven, security-focused solutions for both residential and commercial installations. M1 controls are professional grade with the scalability you need and features to satisfy your clients.

M1 controls deliver uncompromising security. An advanced microprocessor enhances security, speed, and capability. Connectivity and communications are protected by multi-level authentication and superior encryption. Two-Way wireless sensors feature encrypted communications, frequency hopping, and jamming detection to defend against hacking.



### Security & Life Safety

Burglary, fire, and environmental detection with wired and wireless sensor support



### Flexible Reporting

Supports telephone, IP and cellular alarm reporting



### Security-Focused

Increased immunity to hacking with advanced processor and encrypted wireless sensors



### Easy Programming

English text keypad menus and simple programming software



### Prevent Water Damage

Quickly turn water off and provide alerts when a leak is detected. Prevent damage by automatically turning water off when armed away - great for vacation homes.



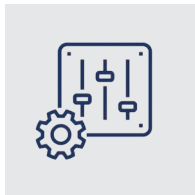
### Energy Management

- Use lighting scenes to dim or automatically turn lights off in unoccupied spaces for reduced energy consumption and extended bulb life
- Ensure comfort and enjoy energy savings with automated thermostat control
- Automate window coverings to make the most of natural light and help heating/cooling systems work more efficiently
- Automate water heaters, electric or gas, to provide substantial energy savings

# Serious Security + Smart Control

Made for integration, M1 systems work with products from over 40 different manufacturers. This empowers installers to work with the products they prefer or their customer requests. Integrators can meet the needs of customers who are budget conscious as well as those who want high-end options.

With remote access capabilities and simple, user-friendly interfaces, M1 keeps users informed and in control, anytime, anywhere! M1 offers flexible remote apps; ranging from simple control to advanced options. With direct and cloud-based options, installers can offer the right solution for each customer.



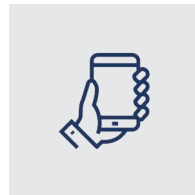
## Smart Automation

Intelligent scheduling and control of lights, thermostats, locks, water valves, and more



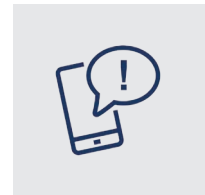
## Integration-Friendly

Integrates with products from industry leaders for a customized user experience



## Secure Connectivity

Securely control the system from popular smart devices with flexible apps



## Convenient Alerts

Stay informed with email, text, and push alerts for system status, alarm events and more



## Monitor Environmental Conditions

Monitor conditions such as temperature and humidity to provide alerts or take action to correct problems. A great option for server rooms, coolers/freezers, wine cellars, greenhouses, animal habitats, etc.



## Access Control


- Door and gate entry control for multiple entry points with partitioning and scheduling capabilities
- User credential options include proximity cards/fobs, pin codes, and biometrics
- Enhanced access control capabilities through cloud based services increase user/entry point capacity, powerful user management tools, expanded scheduling, and increased event logging options




## Key Differences

## Common Features

	M1EZ8	M1 Gold
On-board Zones	8	16
Wireless Capacity	144	144
Total Zone Capacity	200	208
On-board Voltage Outputs	10) 12 VDC 10mA	10) 12 VDC 50mA
On-site Voice Alerts	No	Yes
On-board Serial Port	No	Yes
Removable Terminal Blocks	No	Yes
Power Terminals	1 Aux 1 Smoke	3 Aux 1 Smoke
Master On/Off Switch & Low Battery Cutoff	No - Add ELK-965	Yes
Keypad Diagnostics	System Voltage Only	System Voltage and Current Draw
Option for Two-Way Listen-in for Alarm Verification	No	Yes
UL Listings	N/A	Commercial Burg Residential Burg & Fire Home Health Care



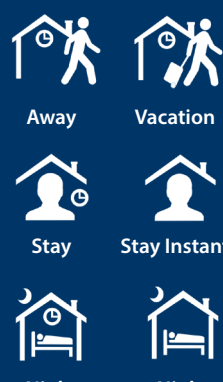
**Up to  
199 Users**




**Up to  
16 Keypads**



**Up to  
8 Areas**



**6 Arm Modes**



**512 Event  
History Log**



**40+ Integration  
Partners**

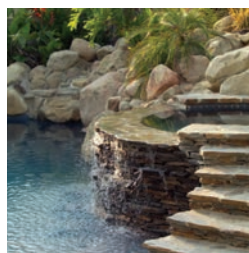


**Powerful  
Whenever/And/Then  
Rules Programming**



**Built-in  
Astronomical  
Clock**

## Automate & Integrate



### M1 provides intelligent scheduling and control of:

- Security & Life Safety
- Access Control
- Lights/Fans
- Thermostats
- Window Coverings
- Garage / Overhead Doors
- Water Heaters
- Water Shut-off
- Sprinklers
- Pumps
- Anything Electrical!



# M1EZ8 & M1 Gold Controls Overview

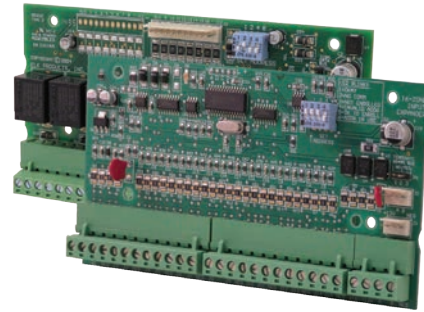
## Keypads



### Functionality & Style

- Keypads feature easy menu navigation, quick arm keys, and programmable function keys
- Options range from touch screens and LCD keypads to discrete arming stations

## Expanders



### Just the Right Fit

- Support additional sensors with hardwired input expanders and wireless modules
- Control a variety of devices through relay and voltage output expanders

## Wireless Sensors



### 319 Series

Reliable and economical 319.5MHz one-way wireless sensors



### Two-Way Wireless

Encrypted two-way transmissions and frequency hopping for increased security

## Alarm Reporting & Remote Access



### M1XEP

Ethernet (IP) interface supports remote programming, apps, cloud services, custom email/text alerts, interface partner integration



### C1M1

IP & Cellular communicator supports remote programming apps, email/text alerts (arm/disarm/alarm) and interface partner integration

## Integration Modules

Part	Integrates with	Lights	Shades	Thermostats	Digital Assistants
M1PCSPIM	UPB	PulseWorx Simply Automated			
M1XSP	Hardwired Thermostats			Aprilaire RCS Omnistats Carrier	
M1XEP	Universal Devices ISY	Insteon Z-Wave		Z-Wave	Amazon Alexa Google Home
M1XSLU	Lutron	RadioRA 2	RadioRA 2	RadioRA 2	
M1XSLC	Lutron	Caséta Homeworks QS RA2 Select	Caséta Homeworks QS RA2 Select	Homeworks QS	
101269	Digital Assistants				Amazon Alexa Google Home Apple HomeKit





Part Number	UPC Barcode	M1 Gold Control Board	ELK-M1KP2 Low Profile LCD Keypad	ELK-M1KP LCD Keypad	ELK-SWB14 14" Enclosure	ELK-M1XRFTWM Two-Way Wireless Transceiver	ELK-6010 Two-Way Wireless Keyfob	ELK-1280 12V 8Ah Battery	ELK-TRG1640 16.5 VAC Transformer	ELK-73 Compact Echo Speaker	ELK-952 Surge Protector	ELK-RJSET Telco Jack & Cord	ELK-M1BLOCKS Plug-in Terminal Blocks
ELK-M1GSYS4STW	7 62158 16026 4	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
ELK-M1GSYS4S	7 62158 56057 6	✓	✓		✓			✓	✓	✓	✓	✓	✓
ELK-M1GSYS4	7 62158 56012 5	✓		✓	✓			✓	✓	✓	✓	✓	✓
ELK-M1GSYS3	7 62158 56011 8	✓			✓			✓	✓	✓	✓	✓	✓
ELK-M1GKS	7 62158 55056 0	✓	✓					✓	✓	✓	✓	✓	✓
ELK-M1GK	7 62158 55039 3	✓		✓				✓	✓	✓	✓	✓	✓
ELK-M1GOLD	7 62158 56000 2	✓			✓						✓		✓
ELK-M1GCB	7 62158 56001 9	✓									✓		



Part Number	UPC Barcode	M1EZ8 Control Board	ELK-M1KP2 Low Profile LCD Keypad	ELK-M1KP LCD Keypad	ELK-UB12 12" Enclosure	ELK-1250 12V 5Ah Battery	ELK-TRG1640 16.5 VAC Transformer	ELK-SP35 Interior Speaker	ELK-RJSET Telco Jack & Cord
ELK-M1EZ8KBS		✓	✓		✓	✓	✓	✓	✓
ELK-M1EZ8KB		✓		✓	✓	✓	✓	✓	✓
ELK-M1EZ8CB		✓							



ELK-M1EZ8MSI

**Main Serial Port for M1EZ8**

The main serial interface for ELK-M1EZ8, required for interfacing M1EZ8 with a PC for upload/download. Baud rate programmable up to 115,200 baud.



- Required when adding the M1XEP Ethernet Interface to M1EZ8
- Housing Size: 4.375" x 3" x 1.25"
- Board Size: 3.375" x 2.25"



ELK-965

**Low Battery Cutoff & Master Power Switch**

Great add-on for M1EZ8 Controls. Convenient On/Off switch for manual disconnect. Automatic low battery cutoff protects battery from deep discharge.



- RoHS Compliant
- *Lifetime Limited Warranty*
- AC Power Leads: 18 AWG, 18" Length
- Battery Leads: 18 AWG, 18" Length
- Low Battery Cutoff Voltage: ~10VDC

# INTERNET

Discover the benefits of connectivity & communication

## Alarm and Event Reporting

Fast, full data communications to Central Station via IP and/or cellular



## Text, Email and Push Notifications

Keeps users informed of system alarms and other events



## Remote Programming

Allows installers to manage systems from anywhere, reducing on-site service calls



## Integration with Popular Automation Systems

Provide a customized user experience with Control4, Crestron, Savant and others



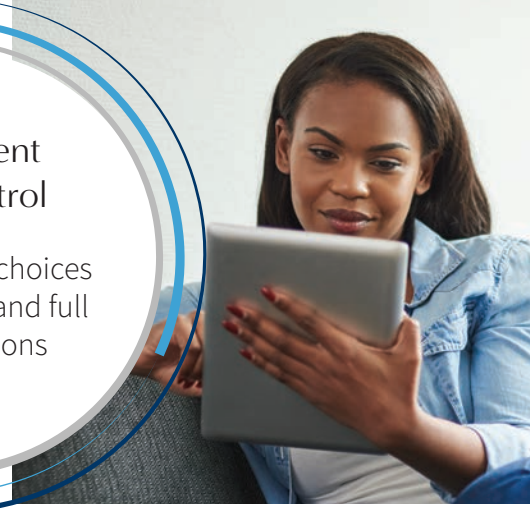
# of THINGS

available through M1  
communication devices



### Convenient App Control

A variety of app choices provide simple and full featured options



### Cloud Connectivity

Simplified setup for remote access and enhanced user tools, notifications and other features



### Lighting and Thermostat Control

Insteon & Z-Wave integration over the local network with enhanced scheduling and automation features



### Compatibility with Digital Assistants

Allows user interaction with voice commands through Alexa, Google Home, or Apple HomeKit



# M1 Communications & Connectivity

## Dual Path (IP/Cellular) Alarm Communicator for M1 Controls

C1M1 Dual-Path Alarm Communicators transmit emergency messages to Central Stations significantly faster than communicators that use dial capture, data bus decoding or cloud servers. Full data communications are sent over IP or cellular pathways, increasing reliability. C1M1 allows remote access for programming or control of the M1 system, as well as local network connectivity with IP based whole house software and interface partners. C1M1 provides email and text alerts for arm, disarm and alarm events.

- Dual reporting pathways: IP and cellular
- Secure connectivity with encryption and password protection
- Simplifies remote access, no port forwarding
- Supports FREE ElkLink Mobile app
- Supports connectivity with partner apps and IP based software and interface partners
- Email/text alerts for arm, disarm and alarm event
- 7 segment display and LED indicators provide status and diagnostic information
- Support for AT&T and Verizon LTE networks
- Connects to M1 control via RS232 serial port
- Operating Voltage: 12 VDC
- Current Draw: Standby - 85mA, Max - 230mA
- Size: 3.5" x 5.4" x 1.3"
- RoHS Compliant



### ELK-C1M1LTEA Dual-Path Alarm Communicator FOR AT&T LTE NETWORKS



### ELK-C1M1LTEV Dual-Path Alarm Communicator FOR VERIZON LTE NETWORK



**ELK-WA003**



#### Remote Antenna

For use in areas with poor cell service. Installed in place of the supplied stubby antenna

- SMA male connector
- Magnetic base
- 6m long cable
- Color: Black



**ELK-USBCM**



#### USB Cable

Use with on-board USB port of C1M1 to allow on-site programming with no need to connect through customer LAN

- USB Serial A to mini-B cable
- 60" long cable
- Color: Black

## Ethernet Interface for M1 Controls

Allows M1 controls to be connected to a LAN (network) for programming, monitoring, and remote control. It provides a secure, encrypted connection with password protection for remote software, apps and cloud-based remote services. It also features email and text notification to keep you informed of important system events.

- Secure connection with password protection and SSL/TLS encryption
- Event notification via e-mail (SMTP)
- Internet monitoring and reporting capability
- Allows synchronization of the M1G/EZ8's clock with NTP(stratum-2) time server
- Supports automatic updates to Dynamic DNS providers (DynDNS protocol)
- Supports IP integration with Universal Devices ISY products, allowing control of Z-Wave lights and thermostats or Insteon lights, as well as integration with digital assistants
- Supports connectivity with partner apps and IP based software and interface partners
- Connects to M1 control via RS232 serial port
- LED indicators for Power, Link, and Data
- Flash Memory for firmware updating
- Operating Voltage: 12 VDC Regulated
- Current Draw: Approximately 300mA
- Size: Housing - 4.25" x 6.375" x 2.125" ; Board - 2.25" x 3.95"
- Includes ELK-P1216 Switching Power Supply and Serial Cable
- RoHS Compliant
- **Made in USA**



**ELK-M1XEP**



Use ELK-SWG Circuit Board Glides (not included) to mount M1XEP in ELK Structured Wiring Enclosures



**ELK-101296**

#### M1 Automation Bridge by Ness

The M1 Automation Bridge can be installed onto a client's LAN to provide voice control of their M1 system from any of the three major voice assistants; Amazon Echo, Google Home, or Apple HomeKit.

- Control M1 outputs, lights and tasks
- Size: 3.5" x 2.75" x 1"
- Includes power supply and network cable





## REMOTE CONTROL APPS & SERVICES

### Feature Overview & Comparison Chart



ElkLink



eKeypad Pro



M1 Touch Pro



Connect ONE



PlanetM1 Cloud



M1ToGo

FEATURES						
Arm/Disarm	✓	✓	✓	✓	✓	✓
View History	✓	✓	✓	✓	✓	✓
View Zone Status		✓	✓	✓	✓	✓
Bypass Zones		✓	✓	✓	✓	✓
Activate F-Keys		✓	✓	✓	✓	✓
View/Control Automated Devices		✓	✓	✓	✓	✓
Manage Multiple Systems	✓	✓	✓	✓	✓	✓
Installer Branding Options		✓	✓	✓		
View Surveillance Cameras		✓		✓		

NOTIFICATIONS						
Email Alerts	✓			✓		
Push Notifications	✓	✓		✓	✓	

\* Monthly subscription and additional hardware required

COST						
Price/Frequency <small>Note: Pricing subject to change</small>	FREE	\$109.99/ one-time	\$59.99/ one-time	Varies/Month <small>Pricing based on enabled features</small>	\$2.99/month \$9.99/3-months \$25.99/year	FREE
Who is Billed	-	Installer or End User	End User	Installer	End User	-

SPECIFICATIONS						
Connection Method	Direct	Direct	Direct	Cloud	Cloud	Direct
Compatible Hardware	C1M1LTEA C1M1LTEV	C1M1LTEA C1M1LTEV M1XEP	C1M1LTEA C1M1LTEV M1XEP	M1XEP	M1XEP	C1M1LTEA C1M1LTEV M1XEP
Platforms Supported	Android, iOS/ Web Browser	iOS	Android	Android, iOS, Web Browser	Android, iOS	Windows

# Keypads for M1 Controls

## Navigator Touchscreen Keypad

Navigator is a stylish, touchscreen keypad for use with M1 Control Systems. It features a touch sensitive, 3.5" LCD color display with colorful icons and text for easy control of the entire system. It connects to the M1 panel via the RS-485 data bus, making it simple for new or retrofit installations. Not only is Navigator stylish, it simplifies total system control. Navigator comes with a designer white bezel, but the optional replacement bezels allow easy conversion to black or silver.



**ELK-M1KPAV**



- Hi-Contrast LCD Touchscreen Display
- Six (6) Programmable Function Keys
- Unique "Menu" Navigation
- Information screen displays installer contact details
- Built-in Piezo Sounder with adjustable volume and pitch
- One (1) Supervised Zone Input
- One (1) "Switched Positive" Voltage Output
- Optional raceway back box for solid wall mount
- Fits into *horizontally positioned* single gang box
- Connection: 6 Pin Plug-in "Flying Lead" Cable
- Operating Voltage: 13.8 VDC
- Current draw: ~30mA Idle (low back light, sounder silent) ~55 mA fully active (max back light and sounder active)
- Dimensions: 4.25" x 3.38" x .59"
- RoHS Compliant



### Surface Mount Back Box

- Use for mounting the M1KPAV on concrete/block (non-hollow) surface or with wire raceway
- RoHS Compliant



**ELK-M1BBKN**



### Black Bezels

- Color Change for M1KPAV
- Package of 2
- RoHS Compliant



**ELK-M1BZBK**



### Silver Bezels

- Color Change for M1KPAV
- Package of 2
- RoHS Compliant



**ELK-M1BZSK**



## Arming Station

Small, economical, arm/disarm station for M1 Controls fits into single gang box and utilizes a standard decorator style faceplate (not included). Displays basic system status with 3 LEDs: Green "Ready", Yellow "Trouble", and Red "Armed". The 12 button keypad is backlit with blue LEDs and has quick arm keys for "Exit" and "Stay". The M1KPAS also provides access to six (6) programmable function operations by pressing the "F" (Function) key followed by one of the keys (1 through 6).



**ELK-M1KPAS**



- Blue Backlit Keys
- Instant Activation of 6 Tasks
- Built-in Piezo Sounder
- Quick Arm Exit & Stay Keys
- LED Status Indicators
- Connection: 4 Pin Plug-in "Flying Lead" Connector (Included)
- Color: White
- Operating Voltage: 13.8VDC
- Current Draw: Less than 30 mA with min. activity - 44 mA fully active
- Size: 1.81" x 2.75" x 1.13"
- RoHS Compliant







## LCD KEYPADS

Our LCD keypads for M1 controls feature a 32 character, backlit display with adjustable intensity. Programmable function ("F") keys can contact emergency services or perform tasks; such as, controlling lights, watering the lawn, closing or opening the garage door, etc. The ELK menu navigation keys easily guide you through the full list of automation tasks, programming, systems diagnostics, and more. These LCD keypads are compatible with 26 bit Wiegand proximity readers, allowing cards or fobs to be used for arming, disarming, or door lock control, etc.

- Input for One Supervised Zone
- One 12 VDC, 50 mA Programmable "Switched Positive" Output
- Exit, Stay, Chime, and Bypass Keys
- Displays system diagnostics and settings
- Connection: 6 Pin Plug-in "Flying Lead" Connector (included)
- Operating Voltage: 13.8VDC
- Color: White
- RoHS Compliant

### A. ELK-M1KP

- Green LCD display with large characters for improved readability
- Six (6) programmable function keys
- Adjustable volume for tones/chime
- Accepts Internal Plug-in Proximity Reader (ELK-M1PR)
- Accepts "External" 26 bit Wiegand Prox Reader using **ELK-W035A wiring harness**
- Built-in Temperature Sensor
- Programmable display of time, date, and/or temperature
- Fold down door with magnetic closure (removable)
- Current Draw: 40-50mA Idle (low back light, sound silent) 160mA fully active
- Size: 6.875" x 5.25" x 1.375"
- UL Listed
- **Made in USA**



7 62158 55003 4

### B. ELK-M1KPB

- Blue LCD display with large characters for improved readability
- Six (6) programmable function keys
- Adjustable volume for tones/chime
- Accepts Internal Plug-in Proximity Reader (ELK-M1PR)
- Accepts "External" 26 bit Wiegand Prox Reader using **ELK-W035A wiring harness**
- Built-in Temperature Sensor
- Programmable display of time, date, and/or temperature
- Fold down door with magnetic closure (removable)
- Current Draw: 40-50mA Idle (low back light, sound silent) 160mA fully active
- Size: 6.875" x 5.25" x 1.375"
- **Made in USA**



7 62158 55004 1

### C. ELK-M1KP2

- Blue/white LCD display
- Four (4) Programmable Function Keys
- Accepts "External" 26 bit Wiegand Prox Reader using **ELK-W039A wiring harness**
- Surface mounts to a standard 1 or 2 gang electrical box
- Programmable display of time & date
- Current Draw: ~30 mA Idle (low back light, sounder silent) ~85 mA fully active
- Size: 4.658" x 5.5" x .95" (.375" D with recess mount)
- Optional Recess Back Box Kit Available (ELK-M1BBK2); size: 4.312" x 5.375" x 1"
- **Made in USA**



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### D. ELK-M1KP3

- Blue/white LCD display
- Four (4) Programmable Function Keys
- Hinged door over the keys
- Accepts "External" 26 bit Wiegand Prox Reader using **ELK-W039A wiring harness**
- Surface mount only without electrical box
- Programmable display of time & date
- Current Draw: ~30 mA Idle (low back light, sounder silent) ~85 mA fully active
- Size: 3.97" x 5.425" x 1.19"



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## KEYPAD FEATURE COMPARISON

	M1KPNAV	M1KP	M1KPB	M1KP2	M1KP3	M1KPAS
<b>Physical Dimensions</b>	4.25" x 3.4" x .6"	6.9" x 5.25" x 1.4"	6.9" x 5.25" x 1.4"	4.7" x 5.5" x 1"	4" x 5.5" x 1.2"	1.8" x 2.75" x 1.1"
<b>Door Cover</b>	✗ No	✓ Yes	✓ Yes	✗ No	✓ Yes	✗ No
<b>Zone Input</b>	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✗ No
<b>Programmable Output</b>	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✓ Yes (1)	✗ No
<b>Optional Proximity Reader</b>	✗ No	✓ Yes Internal & External	✓ Yes Internal & External	✓ Yes- External Only	✓ Yes- External Only	✗ No
<b>Internal Temp Sensor</b>	✗ No	✓ Yes	✓ Yes	✗ No	✗ No	✗ No
<b>Function "F" Keys</b>	6	6	6	4	4	6- Press "F" Key, then 1-6
<b>Adjustable Key Beep Volume</b>	✓ Yes	✓ Yes	✓ Yes	✗ No	✗ No	✗ No
<b>Adjustable Key Beep Tone</b>	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✗ No
<b>LCD Display</b>	Full Color, Touch Sensitive	Green	Blue	Blue	Blue	N/A
<b>Key Back Light Color</b>	N/A	Amber	Amber	Blue	Blue	Blue
<b>Mounting Options</b>	Surface Mount Only	Surface Mount Only	Surface Mount Only	Surface or Flush* Mount (*see M1BBK2)	Surface Mount Only	Mounts in Std. Electrical Box

## KEYPAD ACCESSORIES



ELK-M1BBK2

### Recess Back Box for M1KP2

The M1BBK2 is an optional back box kit that allows the ELK-M1KP2 keypad to be flush (recess) mounted.

- Used in place of standard surface mount back box
- Size: 4.312" x 5.375" x 1"
- RoHS Compliant



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ELK-M1KCWB

### Keypad Conduit Wall Box

The M1KCWB is a two-piece, surface mount, metal wall box used for surface mounting a keypad in a location that does not permit running or concealing the wiring within the structure's walls.

- Permits mounting of the ELK-M1KP or ELK-M1KP2 Keypad back plate
- 1/2" and 3/4" electrical conduit knockouts on 3 sides and back
- RoHS Compliant



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ELK-W035A

### M1KP & M1KPB Proximity Reader Wiring Harness

This 5-pin cable is used to connect a 26 bit Wiegand reader (such as the ELK-106055) to an M1KP or M1KPB keypad.

- Color Coded
- Pre-stripped wire ends
- Keyed connector
- 18 Gauge Wire
- Wire length: 18"
- RoHS Compliant



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ELK-W039A

### M1KP2 & M1KP3 Proximity Reader Wiring Harness

This two pin cable is used to connect a 26 bit Wiegand reader (such as the ELK-106055) to the M1KP2 or M1KP3 keypad.

- Color Coded
- Pre-stripped wire ends
- Keyed connector
- 22 Gauge Wire
- Wire Length: 12"
- RoHS Compliant



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ELK-M1KAM



## M1 Single Door Access Module

A single door access interface module for use with M1 Controls. It installs in place of an M1 Keypad and operates from the RS-485 4-Wire Keypad Data Bus.

- Input for a standard 26 bit Wiegand Reader
- (3)12 VDC Outputs for Door Held Open Alarm(50mA), Ready To Arm, and System Armed indications (10mA)
- (2)Supervised Inputs for RTE (Request To Exit) Button/Device and Door Status Sensor
- Four selectable Time settings for "Request to Exit" and "Door Held Open"
- RoHS Compliant
- Heavy Duty Form "C" Relay Contacts for Switching Door Strike Power
- Connections: Plug-In Screw Terminals, 16 Position
- Operating Voltage: 13.8VDC
- Current Draw: Less than 30 mA with minimum activity, 44 mA fully active
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board Dimensions: 3.95" x 2.875" x .95"
- Hardware Watchdog Circuit



ELK-M1PR

## Keypad Plug-in Proximity Reader

Plugs into the connector inside the ELK-M1KP<sup>+</sup> or ELK-M1KPB<sup>+</sup> keypad. Allows a proximity card or fob to be used to quickly arm, disarm, operate a door strike, etc.

- Reader format: 26 bit Wiegand
- Read Distance: ~3/8"
- 5-pin plug-in connector
- **Made in USA**
- Operating voltage: 5VDC from keypad
- Current Draw: ~20mA
- RoHS Compliant



\* Not compatible with other keypads - see ELK-106055

Requires M1PRC cards or M1PRF fobs



ELK-106055

## Exterior Proximity Reader

Allows a proximity card or fob to be used with M1 Controls to quickly arm, disarm, operate a door strike, etc.

- Connects to M1KP & M1KPB Keypads with ELK-W035A harness
- Connects to M1KP2 & M1KP3 Keypads with ELK-W039A harness
- Can be used on any system that is 26 bit Wiegand compatible
- RoHS Compliant
- Weatherproof - suitable for outdoor installation
- Size: 3.125" x 1.875" x 1"
- Color: Black
- Operating Voltage: 12 VDC
- Current draw: 50mA



Requires M1PRC cards or M1PRF fobs



ELK-M1PRC

## M1 Proximity "Clam Shell" Cards

For use with the add-on proximity readers: ELK-M1PR for the ELK-M1KP keypad or ELK-106055 exterior reader.

- Comes in packs of (10) ten
- Credit Card Size
- Color: Off white
- Size: 3.375" x 2.125" x .0625"
- RoHS Compliant
- **Made in USA**



ELK-M1PRF

## M1 Proximity Key Fobs

For use with the add-on proximity readers: ELK-M1PR for the ELK-M1KP keypad or ELK-106055 exterior reader.

- Comes in packs of (10) ten
- Attaches to key chain
- Color: Black
- Size: 2.125" x 1.3125" x .25"
- RoHS Compliant
- **Made in USA**



The convenience of wireless with the SECURITY OF HARDWIRED

# TWO-WAY WIRELESS



## SECURE, RELIABLE, AND INSTALLER FRIENDLY

Smart homes and businesses need more intelligent security. ELK's Two-Way Wireless products incorporate advanced features to ensure secure transmissions, increase reliability, extend battery life, simplify installation, and provide innovative security enhancements.

### HOW IS TWO-WAY WIRELESS DIFFERENT?



Encrypted transmissions, frequency hopping and jamming detection make it virtually impossible to lock on to the signal providing increased immunity to hacking.



Every signal from each sensor is acknowledged by the transceiver to ensure reliability. This also stops repeat transmissions, saving battery life. Bi-color LEDs confirm signals have been received, saving installation steps and time.

### UNIQUE PRODUCT FEATURES



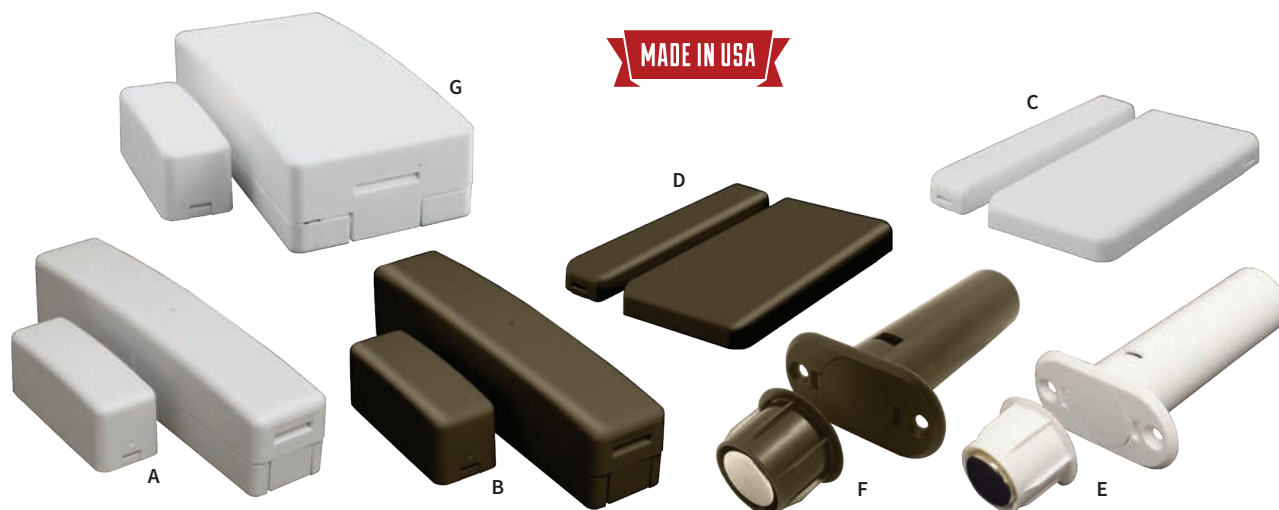
Know if an alarm has been activated before entering with on-demand status inquiry and LED indicator



Meet new fire codes with Sound All™ Smoke Detectors featuring wirelessly activated synchronized sounders



Eliminate trips up the ladder and simplify motion detector testing with keypad activated walk test mode and test confirmation with a bright white LED



## DOOR/WINDOW SENSORS

### Slim Line Door & Window Sensors

Ideal for narrow jamb door and window applications.

- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- One built-in reed switch
- Front and back tamper option
- 902 Mhz - 928 Mhz frequency hopping
- Maximum operating gap of reed: 1/2"
- Size: .71" x 3.4" x .8"
- Magnet: .57" x 1.5" x .6"
- RoHS Compliant

#### A. ELK-6020

- Color: White



#### B. ELK-6020BR

- Color: Brown



### Mini Window Sensors

Exceptionally thin wireless window sensor.

- Perfect for double hung windows
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- One built-in reed switch
- 902 Mhz - 928 Mhz frequency hopping
- Maximum operating gap of reed: 3/8"
- Size: 1.1" x 2.3" x .25"
- Magnet: .37" x 2.3" x .25"
- RoHS Compliant

#### C. ELK-6021

- Color: White



#### D. ELK-6021BR

- Color: Brown



### Recessed Door Sensors

The ultimate wireless security device for discriminating customers! Mounts into a 3/4" drilled hole in a wooden door jamb and becomes nearly invisible once the door is closed.

- Designed for wood and vinyl doors
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Built-in tamper switch
- 902 Mhz - 928 Mhz frequency hopping
- Maximum Operating Gap: 3/4"
- Size: .75" x 2.5", Mag: .75" x .625"
- RoHS Compliant

#### E. ELK-6023

- Color: White



#### F. ELK-6023BR

- Color: Brown



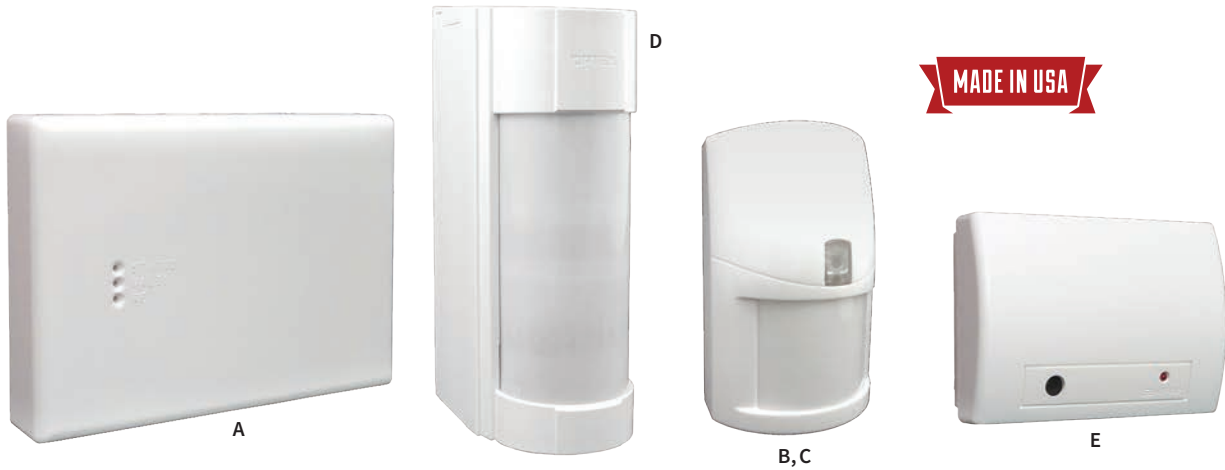
#### G. ELK-6022

##### Universal 3-Zone Sensor

3-in-1 sensor provides 1 wireless zone (built-in reed switch) and 2 hardwired zones (open/closed zone inputs) to be transmitted as 3 wireless zones.

- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- One built-in reed switch zone
- Two zone inputs for external contacts
- Front and back tamper option
- 902 Mhz - 928 Mhz frequency hopping
- Maximum operating gap of reed: 1/2"
- Size: 1.5"W x 3" x .9"
- Magnet: .57" x 1.5" x .6"
- RoHS Compliant





## M1 WIRELESS TRANSCEIVER

### A. ELK-M1XRFTWM

Allows an ELK-M1 or ELK-M1EZ8 Control to accept ELK's complete line of two-way wireless sensors. Up to 4 transceivers may be used with a single M1 or M1EZ8 control for redundancy and greater coverage.

- Supports up to 144 individual wireless zones (sensors/points)
- Connects to M1 4-wire RS-485 Data Bus
- Operating Frequency: 902 to 928 Mhz
- Sensitivity: >105 dbm
- Housing Size: 6.75" x 4.69" x 1.13"
- Operating Voltage: 12 VDC
- Current Draw: 25mA receiving, 85mA transmitting
- UL Listed
- RoHS Compliant



## MOTION & GLASSBREAK SENSORS

### Indoor PIR Motion Sensors

Ideal for residential and light commercial installations. Innovative features ensure reliable performance and convenience.

- Convenient keypad initiated walk test mode
- Industry First Security/Convenience Light with:
  - Momentary motion activation during walk test
  - Flashing during audible alarm activation
  - Programmable "on" activation through M1 Rules
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Selectable coverage range and pulse count
- High quality dual element Pyroelectric sensor
- 902 Mhz - 928 Mhz frequency hopping
- Includes standard swivel mounting bracket
- Size: 2.8" x 4.4" x 1.9"
- RoHS Compliant

### B. ELK-6030

- Standard Version



### C. ELK-6030P

- Pet Immune up to 40 lbs.



### D. ELK-6032

#### Outdoor PIR Motion Sensor

Detects movement within a specific coverage area, by sensing the infrared energy emitted from an intruder moving across the sensor's field of view. Temperature changes created by the infrared energy are processed to determine if the occurrence qualifies as a legitimate motion detect alarm event.

- Dual element pyroelectric sensor
- Excellent immunity from white light, RF, and ESD interference
- Sleep Cycle "Battery Saver" (2 settings)
- Selectable sensitivity and pulse count
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Coverage: 12m (40 ft.) x 90° wide
- 902 Mhz - 928 Mhz frequency hopping
- Operating Temp: 0°F to 122°F
- Size: 3.154" x 7.8" x 4.25"
- RoHS Compliant



### E. ELK-6040

#### Glass Break Sensor

Listens for actual patterns of breaking glass across the full audio band using Pattern Recognition Technology™. The factory set recognition patterns make it possible to detect the difference between breaking glass of framed perimeter windows in a building vs. a drinking glass breaking within a room.

- Pattern Recognition Technology™
- Alarm LED - RED (viewable from front)
- RF Acknowledge LED - Bi-Color (viewable with cover removed)
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Omni-directional microphone, 360° Detection
- Detection Range: 20 ft. (6m)
- Min. Distance from Glass: 4 ft. (1.2m)
- RoHS Compliant



## LIFE SAFETY SENSORS

### F. ELK-6050

#### Sound All™ Smoke Detector with Built-In Heat Sensor

Provides a two-way wireless solution with signal acknowledgment and rapid "rate-of-rise" temperature detection. Sound All™ feature allows ELK's M1 controls to activate the built-in sounders of all enrolled ELK-6050 smoke detectors in an event of a fire alarm.

- Photoelectric smoke detection
- Rapid "rate-of-rise" temperature detection
- Fixed temperature heat detection
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Sounder: 85 dB at 10 ft. temporal pattern
- 902 Mhz - 928 Mhz frequency hopping
- Size: 5.6" x 2.4"
- UL Listed
- RoHS Compliant



F

### G. ELK-6051

#### Carbon Monoxide Detector

Combines proven, high reliability electro-chemical carbon monoxide sensor with ELK's Two-Way Wireless technology for M1 Controls. The sensor has a 10-year life and the unit operates from 2 easy-to-replace AAA batteries.

- Proven, high-reliability, electro-chemical carbon monoxide sensor
- Easy to understand LED indicators provide clear visual indication of alarms, faults, power and RF acknowledgment
- Diagnostic smartphone app simplifies field testing
- Loud built-in sounder, 85dB(A) at 3 meters
- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- 902 Mhz - 928 Mhz frequency hopping
- Size: 5.6" x 2.4"
- UL Listed
- RoHS Compliant



G



H

I

## KEYFOBS/PANIC BUTTONS

### H. ELK-6010

#### Four Button Keyfob

Provides 4 push buttons, on-demand status inquiry with LED feedback indicator. Programmable buttons can be configured to arm, disarm, activate panic alarm, open garage door, turn on lights, etc.

- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- Know the system status before entering with the status inquiry button
- Status LED indicates arm, disarm, and alarm memory status
- 902 Mhz - 928 Mhz frequency hopping
- Size: 1.5" x 2.32" x .5"
- Replaceable battery
- RoHS Compliant



### I. ELK-6011

#### Single Button Panic Sensor

Features a single "press and hold" button and red LED feedback indicator. The typical application for this sensor is activating a panic or emergency alarm.

- Compatible with ELK-M1XRFTWM Two-Way Wireless Transceiver
- 902 Mhz - 928 Mhz frequency hopping
- Red LED blinks to confirm the panic alarm has been activated
- Replaceable battery
- Size: 1.5" x 2.32" x .5"
- Water resistant lanyard included
- RoHS Compliant



## TWO-WAY WIRELESS STARTER KIT

### ELK-M1XRFTWKIT

- (1) **FREE** M1XRFTWM Two-Way Transceiver
- (2) ELK-6020 Slimline Door & Window Sensors
- (2) ELK-6010 Four Button Keyfobs
- (1) ELK-6030P Motion Sensor with Pet Immunity
- **Made in USA**



# 319 SERIES



## Supervised One-Way Wireless Sensors



### Versatile

#### 319.5 MHz Frequency

- Compatible with many popular systems including M1 Controls
- Ideal for servicing existing Interlogix systems in need of replacement sensors



### Reliable

#### MaxOut™ Technology

- Maximum RF power output
- Increased coverage
- Extended battery life
- Superior performance



### Economical

#### Exceptional Quality + Low Cost

- Competitively priced
- Built the ELK way for years of reliable service
- Uses common batteries for convenience and lower maintenance costs





ELK-319DG

### All Weather Door & Gate

Uniquely designed for outdoor use on swing gates or doors.

- Long range and battery life, two easy to find CR2032 batteries
- Compatible with ELK-M1XRFEG receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Operating Temp Range: -40 to 140°F (-40 to 60°C)
- Size - Sensor: 3.39" x 1.34" x 0.79", Magnet: 3.0" x 0.96" x 0.8"



ELK-319DWM

### Mini Door & Window

Small, low profile sensor for doors and windows.

- Uses two CR2032 for maximum life and range
- Compatible with ELK-M1XRFEG receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size - Sensor: 2.25" x 1" x 0.50", Magnet: 1.31" x 0.38" x 0.5"



ELK-319DR

### Recessed Door

Recess mounted door sensor is virtually invisible when door is closed.

- Utilizes a single common and easy to find CR2 battery
- Compatible with ELK-M1XRFEG receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size - Sensor: 2.25" x 0.75" Dia., Magnet: 0.56" x 0.75" Dia



ELK-319WS

### Window & Shock

Detects the opening of a window or vibrations made by an intruder attempting to break the window.

- Operates from two CR2032 batteries for max range and battery life
- Compatible with ELK-M1XRFEG receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size - Sensor: 2.31" x 1" x 0.50", Magnet: 1.31" x 0.38" x 0.5"



ELK-319PIRC

### Ceiling Mount PIR Sensor

360° PIR (passive infrared) motion sensor specially designed for ceiling mount applications.

- Operates from two CR2032 batteries for max range and battery life
- Compatible with ELK-M1XRFEG receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size: 2.95" Dia. x 1.39"





**ELK-319HRR**

### Heat Rate-of-Rise and Fixed Temperature Sensor

Heat sensor with selectable setpoint of either 135°F or 200°F and rate-of-rise detection of 12°F or more over a one (1) minute time period.

- Utilizes a single common and easy to find CR2 battery
- Compatible with ELK-M1XRFE receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size: 2.29" Dia. x 1.28"



**ELK-319KF4**

### 4 Button Keyfob

Provides 4 programmable buttons for convenient system control.

- Can be used to arm and disarm the alarm system
- Two additional buttons can be utilized as panic alarm or other functions
- Operates from one easy to find CR2032 battery
- Compatible with ELK-M1XRFE receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size: 2.37" x 1.31" x 0.44"



**ELK-319KF1**

### 1 Button Keyfob

Simple one button operation for panic alarm activation.

- Can be used for a police, medical, or auxiliary panic
- Operates from one easy to find CR2032 battery
- Compatible with ELK-M1XRFE receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size: 2.37" x 1.31" x 0.44"



**ELK-319PB1**

### Heavy Duty 1 Button Panic

Single button panic with rugged and water resistant design.

- Can be used for a police, medical, or auxiliary panic activation
- Includes belt clip, lanyard clip and wall mount bracket
- Operates from one common CR2450 battery
- Compatible with ELK-M1XRFE receiver and other systems utilizing a 319.5 MHz wireless receiver that adheres to the Interlogix™ protocol
- Size: 3.0" x 2.0" x 0.7"



## M1 WIRELESS RECEIVER FOR 319 SERIES SENSORS



### ELK-M1XRFE

- **Compatible with 319.5 MHz Transmitters**
- Adds up to 144 individual wireless zones (sensors/points)
- Multiple receivers may be connected to a single M1 or M1EZ8 Control for redundancy or greater coverage
- Operates from 4 wire data bus
- Sensitivity: >105 dbm
- Operating Temperature: 0 to +120 degrees F
- Operating Voltage: 12 VDC
- Current Draw: 70mA
- Housing Dimensions: 6.75" x 4.69" x 1.13"
- RoHS Compliant
- **Made in USA**



**IMPORTANT NOTE:** This wireless receiver supports ELK 319 Series transmitters, as well as other 319.5MHz transmitters that adhere to the Interlogix™ format. It DOES NOT support any ELK Two-Way Wireless sensors.

## REPLACEMENT BATTERY GUIDE FOR ELK TWO-WAY WIRELESS & 319 SERIES WIRELESS SENSORS

Two-Way Wireless			
Sensor Part#	Battery Type	Voltage	Qty
ELK-6010	CR2032 Lithium	3V	1
ELK-6011	CR2032 Lithium	3V	1
ELK-6020	½ AA Lithium	3.6V	1
ELK-6020BR	½ AA Lithium	3.6V	1
ELK-6021	CR2032 Lithium	3V	1
ELK-6021BR	CR2032 Lithium	3V	1
ELK-6022	CR123A Lithium	3V	1
ELK-6023	½ AA Lithium	3.6V	1
ELK-6023BR	½ AA Lithium	3.6V	1
ELK-6030	CR123A Lithium	3V	2
ELK-6030P	CR123A Lithium	3V	2
ELK-6032	CR123A Lithium	3V	2
ELK-6040	CR123A Lithium	3V	1
ELK-6050	CR123A Lithium	3V	2
ELK-6051	AAA Alkaline	1.5V	2

319 Series Wireless			
Sensor Part#	Battery Type	Voltage	Qty
ELK-319DG	CR2032 Lithium	3V	2
ELK-319DR	CR2 Lithium	3V	1
ELK-319DWM	CR2032 Lithium	3V	2
ELK-319HRR	CR123A Lithium	3V	1
ELK-319KF1	CR2032 Lithium	3V	1
ELK-319KF4	CR2032 Lithium	3V	1
ELK-319PB1	CR2450 Lithium	3V	1
ELK-319PIRC	CR2032 Lithium	3V	2
ELK-319WS	CR2032 Lithium	3V	2

### M1 WIRELESS RECEIVER FOR HONEYWELL 5800 SERIES SENSORS



#### ELK-M1XRF2H

- **Compatible with Honeywell™ 5800 Series transmitters only**
- Adds up to 144 individual wireless zones (sensors/points)
- Multiple receivers may be connected to a single M1 or M1EZ8 Control for redundancy or greater coverage
- Operates from 4-wire data bus
- Sensitivity: >105 dbm
- Operating Temperature: 0 to +120 degrees F
- Operating Voltage: 12 VDC
- Current Draw: 70mA
- Housing Dimensions: 4.13" x 7.31" x 1.5"
- RoHS Compliant
- **Made in USA**



**IMPORTANT NOTE:** This wireless receiver supports only Honeywell™ 5800 Series transmitters. It DOES NOT support any ELK Two-Way Wireless or 319 Series Wireless sensors.

### Zone Temperature Sensors



**ELK-M1ZTS**  
Temperature Sensor



#### M1 Zone Temperature Sensors

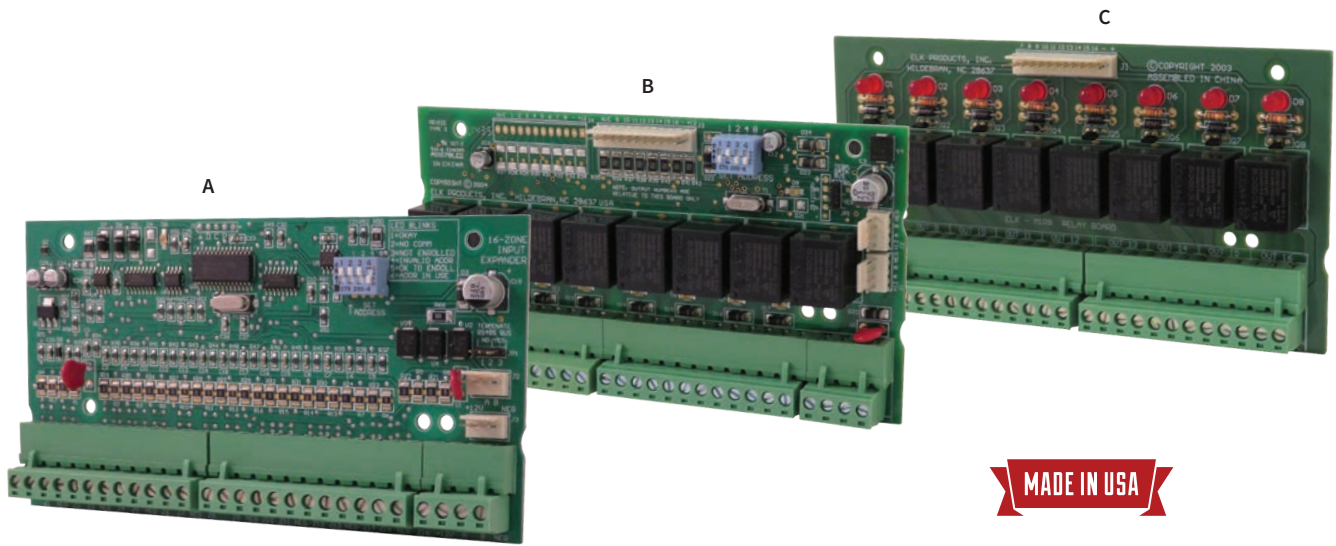
Brings temperature information to M1 Controls for processing. Monitor high or low temperatures with this add-on remote sensor. Applications: wine cellars, server rooms, commercial coolers/freezers, second homes, agricultural uses, etc.

- Connects to any on-board zone on the M1
- Temperature may be accessed from keypads, remote apps, PC, or rules
- Suitable for Indoor/Outdoor use in a covered environment
- May be placed up to 1000' from M1 Control
- Temperature Range: -50 to +140F
- Operating Voltage: 12 VDC
- Current Draw: 10mA
- Housing Dimensions: 2.375" x 1.25" x 1"
- RoHS Compliant
- **Made in USA**



**ELK-M1ZTSR**  
M1ZTS with 7 ft. Stainless Remote Probe





## Hardwired Input & Output Expansion

### A. ELK-M1XIN

#### M1 16 Zone Input Expander

Adds 16 hardwired zones (with or without EOL resistor supervised) to the M1 Controls. Up to 12 may be added, increasing the M1Gold to 208 and the M1EZ8 to 200 total zones (inputs).

- Operates from 4-wire data bus
- Dip Switch address settings
- Plug-in terminal strips
- Status and diagnostic LED
- RoHS Compliant
- UL Listed
- Operating Power Range: 9 to 14VDC
- Current Draw: 65mA
- Size: 6" x 3.25" x .75"
- Includes ELK-SWG for easy mounting in ELK enclosures



### B. ELK-M1XOVR

#### M1 16 Output Expander, 8 Voltage & 8 Relays

Adds 16 outputs (8 voltage, 8 relays) to M1 Controls. Voltage outputs can be used to trigger low current devices (50 mA max. each). Operates from 4-wire data bus. Up to 12 output expanders may be used for a total of 205 outputs. Option: convert 8 voltage outputs to relays using M1RB Relay Board.

- Operates from 4-wire data bus
- Up to 12 Output Expanders may be added
- DIP Switch address settings
- Includes 12 conductor "Flying Lead" Wiring Harness
- Status and diagnostic LED
- RoHS Compliant
- UL Listed
- Relays: SPDT rated for 7A @ 28VDC, 10A @ 125VAC
- Voltage Outputs: 12 VDC @ 50mA each
- Operating Power Range: 9 to 14VDC
- Current Draw 65mA Nom., 330 mA Max.
- Size: 6" x 3.25" x .75"
- Includes ELK-SWG for easy mounting in ELK enclosures



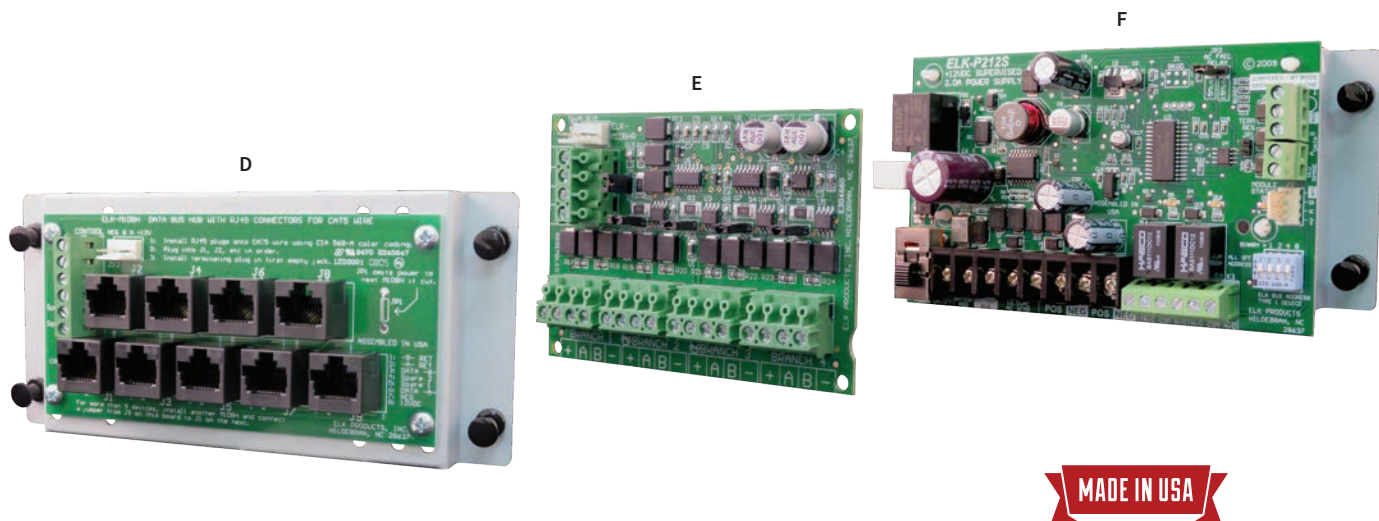
### C. ELK-M1RB

#### M1 Relay Board, Plug-in

Used to convert the voltage outputs of M1 Controls into SPDT relays.

- Provides 8 Relay Outputs
- Plugs directly into M1 Controls or ELK-M1XOVR
- Includes ELK-SWG for easy mounting in ELK enclosures
- LED Status Indicators on all 8 Relays
- UL Listed
- Relay Contact Ratings: 7A @ 28VDC, 10A @ 125VAC
- Wire harness length: 24"
- Current draw: 0mA Idle, 250mA Max.
- Size: 6" x 3.25" x .75"
- RoHS Compliant





MADE IN USA

## Data Bus Hubs

### D. ELK-M1DBH M1 Data Bus Hub

For easy connection of expanders & keypads. The M1DBH accepts up to 9 RJ45 equipped CAT5 or CAT6 cables, and series connects the data A & B lines so the data bus may be terminated properly.

- Designed for multiple home run cables
- Internally connects Data A & B lines from previous device into next device out
- Multiple Hubs may be connected for expansion
- EOL Bus Termination accomplished on-board with included RJ-45 Terminator Plug
- Input Connectors: Elevator Screw Terminals
- Output Connections: RJ-45, 8-Pin Jacks
- **Includes ELK-SWP3** Mounting Plate
- Circuit Board Size: 5" x 2.5" x .75"
- Easily snaps into ELK enclosure
- RoHS Compliant



### E. ELK-M1DBHR M1 Data Bus Hub for Retrofit

Active RS-485 data bus hub for M1 retrofit of older panels with multiple home run, 4-conductor keypad/data wires with M1 Controls. The end of each cable is EOL terminated to insure proper operation and supervision. Must be located at main control.

- Splits main data bus into 4 managed RS-485 branches
- Each branch can have 2 parallel home run cables for total of 8 home runs
- Works with standard 4 conductor home run wiring
- Up to 2 hubs can be connected to the M1 board
- Inputs: Elevator Screw Terminals (4 position)
- Output: Elevator Screw Terminals (4 position)
- **Includes ELK-SWG** for easy mounting in ELK enclosures
- Circuit Board Size: 4.9" x 2.75" x .5"
- RoHS Compliant



## Supervised Power Supply for M1

### F. ELK-P212S Supervised Remote Power Supply

This supervised remote power supply/battery charger provides 12 VDC output with up to 2 Amps of total current and supervises the AC power input as well as the rechargeable battery. When used with an M1 control, it can report abnormal conditions over the RS485 data bus.

- Data-bus supervision of AC and Battery status
- Master AC and Battery ON / OFF Power Switch
- Visual AC Power Indicator
- Programmable relay output
- Two (2) Year Warranty
- RoHS Compliant
- AC Input: 16.5VAC, 45VA (TRG1640 or equiv.)
- DC Output Voltage: 13.8 Volts DC +/- 5%
- Current/Wattage Rating: 2.0 Amps/30 Watts
- DC Output Protection: Auto Resetting PTC
- Rechargeable Battery Size: Max. 12 Ah
- Low Battery Cutoff Threshold: ~10 Volts



## Two-Way Listen-In Interfaces & Accessories



ELK-M1TWA



### M1 Gold Audio Amplifier Module with Two-Way Listen-In Capability

Provides 3 zones of amplified speaker outputs with adjustable volume, along with 3 zones of microphone inputs. The M1TWA can be used to add two way listen-in to M1 Gold Controls or simply to add amplified speakers at keypads and other locations in a building.

- Adjustable Speaker Volume Control by Zone
- Selectable Mute by Zone
- 3 Mic Input Zones (up to 4 mics per zone)
- Selectable Mic Listen by Zone or Select ALL
- For Two Way Listen-in, compatible with: ELK-M1TWM, ELK-M1TWS, ELK-M1TWSF
- For amplified speaker applications, compatible with traditional 8 ohm speakers
- Output Impedance Range: ~4 to 32 Ohms per speaker output
- Amplifier Rating: 1/2 Watt per Speaker Output
- Operating Voltage: 9 to 14 Volts DC
- Current Draw: 15mA nominal, 1000mA max
- Microphone Current Draw: 5mA each
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board Dimensions: 2.25" x 3.95"
- RoHS Compliant



ELK-M1TWI



### M1 Gold Two-Way Listen-In Interface

This can be used by Central Station to verify an alarm, or by a user from the M1 Gold telephone remote control to check on elderly parents, children, etc.

- Adds up to three (3) zones of two way listen-in to M1G Control
- Up to 12 microphones may be connected
- May be removed from included housing and mounted on optional glides in ELK structured wiring enclosures
- Made in USA
- Module powered by M1 Gold
- Compatible with: ELK-M1TWM, ELK-M1TWS, ELK-M1TWSF
- Includes 8 conductor interface cable
- Housing: 4.375" x 3" x 1.125"
- Board Size: 3.5" x 2.75" x .75"



ELK-M1TWSF

### Flush Mount Two-Way Listen-In Speaker/Microphone

Flush Mount 12 Watt Speaker and Microphone combination for use with the M1 Gold two way listen-in interfaces.

- Fits single gang electrical boxes
- Requires 4 conductor cable
- Up to 12 may be connected
- Color: White
- Size: 4.81" x 3.13" x 1.69"
- RoHS Compliant

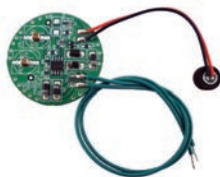


ELK-M1TWS

### Two-Way Listen-In Speaker/Microphone

Microphone and 20 Watt Speaker combination for use with the M1 Gold two way listen-in interfaces.

- Requires 4 conductor cable
- Up to 12 may be connected
- Color: White
- Size: 4.25" x 4.25" x 2.13"
- RoHS Compliant



ELK-M1TWM

### Two-Way Listen-In Microphone

Microphone only for use with the M1 Gold two way listen-in interfaces.

- Simple two wire connection
- High Sensitivity
- Up to 12 may be connected
- Operating Voltage: Powered from M1TWA, M1TWI or M1EZ8TWI
- Current Draw: 5mA each
- Circuit Board Size: 1.63" diameter
- RoHS Compliant





**ELK-M1XSLU**



## M1 to Lutron RadioRA 2 Interface

The M1XSLU is a dedicated M1 serial expander for connecting M1 Controls to a Lutron RadioRA 2 Main Repeater. RadioRA 2 is a wireless multi-room control system for Lights, Shades, and HVAC Thermostats. Interfacing a RadioRA 2 system to an M1 allows control in response to security system actions or conditions. Benefits include energy savings, convenience, and comfort.

- Activity/Status LED (Orange)
- Auto-Resetting Hardware Watchdog Circuit
- Addressable (1-7) TYPE 5 Databus ID
- Connection to Main Repeater: RS-232 Cable (included)
- Connection to M1: Elevator Screw Terminals (4)
- **Made in USA**
- Operating Voltage: 12 VDC
- Current Draw: 31mA
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board: 2.75" x 3.95"
- RoHS Compliant

Lutron and RadioRA 2 are trademarks or registered trademarks of Lutron Electronics Co., Inc. in the U.S. and/or other countries.



**ELK-M1XSLC**



## M1 Interface Kit for Lutron Caséta Wireless, RA2 Select, or HomeWorks QS

The ELK-M1XSLC interface kit contains the necessary ELK components (ELK-M1XSLU and ELK-IP232) for integration with Lutron Caséta Wireless lights and shades, RA2 Select lights and shades, or HomeWorks QS devices (lights, shades, and thermostats).

### ELK-M1XSLU

- Connects to M1 data bus and to IP232 via RS232 and null modem (included)
- Operating Voltage: 12 VDC (Supplied from M1)
- Current Draw: 31mA
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- RoHS Compliant
- **Made in USA**

### ELK-IP232

- Connects to Lutron Smartbridge Pro, RA2 Select Main Repeater, or Homeworks QS Processor
- Operating Voltage: 12 VDC supplied from ELK-P1216 (included)
- Current Draw: 135mA
- Dimensions: 3.85" x 1.7" x 0.93"
- RoHS Compliant

Lutron, Caséta, HomeWorks, and RA2 Select are trademarks or registered trademarks of Lutron Electronics Co., Inc. in the U.S. and/or other countries.



**ELK-M1PCSPIM**



## UPB® Interface for M1 Controls

The ELK-M1PCSPIM is a special Powerline Interface Module containing a built-in M1XSP Serial Port chip. This all-in-one device makes it easy to permanently connect the ELK M1 Control to a UPB network.

- Compact, space saving interface
- Easy hookup -- 4-wire data bus connection
- NO 9-Pin Serial Cable Required
- UPB Status light (multicolored)
- M1 Data Bus Status Light (Green)
- Lower cost than purchasing separate M1XSP and PCSPIM products
- Removable 4-pin terminal block connection
- RoHS Compliant
- **Made in USA**
- Power:
  - UPB Network circuitry – powered from the AC "Primary" Line.
  - M1 Data Bus Device circuitry – powered (12 VDC) from the M1 Data Bus
- Current Draw from M1: ~30mA @ 12 VDC
- M1 Bus Device Address: Preset at Address #7
- Firmware required: Standard Version (1.0.42 or later)



**ELK-M1XSP**



## M1 Serial Port (RS-232) Expander

Additional serial port(s) for M1 Controls to interface other manufacturers' equipment utilizing RS-232 ASCII commands.

- Allows M1 to interface with communicating thermostats and lighting controls\*
- Adjustable baud rate 300 to 38400
- Up to 7 M1XSP Expanders may be added to the M1 controls
- **Made in USA**
- Operating Voltage: 12 VDC
- Current Draw: 31mA
- Housing Size: 4.375" x 3" x 1.125"
- Circuit Board Size: 3.5" x 2.75"
- RoHS Compliant

Integration with some partner manufacturers, such as AMX, Control 4, and Crestron, require the main serial port, C1M1 Communicator, or ELK-M1XEP Ethernet Interface. Visit [www.elkproducts.com](http://www.elkproducts.com) for more details and a complete list of partner manufacturers.

**ALSO SEE:**

### ELK-M1XEP Ethernet Interface (Page 14)

This IP interface can be used in conjunction with the Universal Devices ISY products to interface with Z-Wave lights and thermostats, or Insteon lights.



ELK-IP232



### Ethernet to RS-232 Serial Bridge

The ELK-IP232 may be used to connect any standard serial communications device to an Ethernet network. It is able to both initiate and accept network connections. Once a network connection is made, the remote networked device is virtually connected to the serial device on the other side of the Bridge. Both the network device and the serial device can send and receive messages to and from each other.

- Supports both UDP and TCP protocols
- Up to 12 simultaneous TCP-IP connections
- Up to twelve (12) "Rules" may be programmed to make outgoing connections
- Selectable baud rate from 300 to 115200 baud
- 802.3 compliant 10/100 Mbit interface
- Software and Hardware Handshaking
- Operating Voltage: 12 VDC
- Current Draw: Approx. 135 mA
- Dimensions: 3.85" x 1.7" x 0.93"
- RS-232, DB9M 9-pin serial port connection
- RJ45 8-pin Network Jack
- LED Indicators for Power, Link, and Data
- Includes: Serial Cable and 12V Supply
- RoHS Compliant

## Other Accessories



ELK-M1VO

### Voltage Output Conversion Board

Converts 12 conductor ribbon cable connections to screw terminal connections.

- Compatible with positive voltage outputs of M1 controls and M1XOVR output expanders
- Simplifies connections for quicker and neater installations
- Mounts on self-adhesive feet
- Includes 6" ribbon cable
- Dimensions: 1"W x 3" x .625"
- **Made in USA**



ELK-W119

### Dual Battery Wires for M1 Controls

Increase the back-up battery capacity of M1 control by installing dual back-up batteries. Replaces factory battery wires.

- Increases standby power time in the event of an AC power outage
- Ideal for commercial or large residential installations
- 2 Pairs, 24" long
- Red (+) wires are fuse protected at 5 Amps



ELK-M1BLOCKS

### Terminal Blocks for M1 Gold Controls

Complete set of 6 plug-in "replacement" terminal blocks.

- Includes various sizes needed for use with M1 Gold Controls
- Terminal blocks are included with M1 Gold Kits
- RoHS Compliant
- **Made in USA**



ELK-USB232

### Serial Cable to convert USB to RS-232

This special cable is required for the ElkRP2 software to connect with the main serial port of M1 Controls when the computer does not provide a conventional RS-232 9-pin port.

- Male USB to Male DB9
- Speed: USB 2.0
- Cable Length: 6'
- Includes CD with Device Drivers
- RoHS Compliant



ELK-W040A

### Serial Ribbon Cable

This serial ribbon cable is used to connect the M1 Controls main serial port to the M1XEP. **Included with ELK-M1XEP.**

- Compact design means cable will not interfere with the enclosure door
- DB9F to DB9M
- Approx. 17" long
- RoHS Compliant



ELK-W018B

### 4-Pin Ribbon Cable

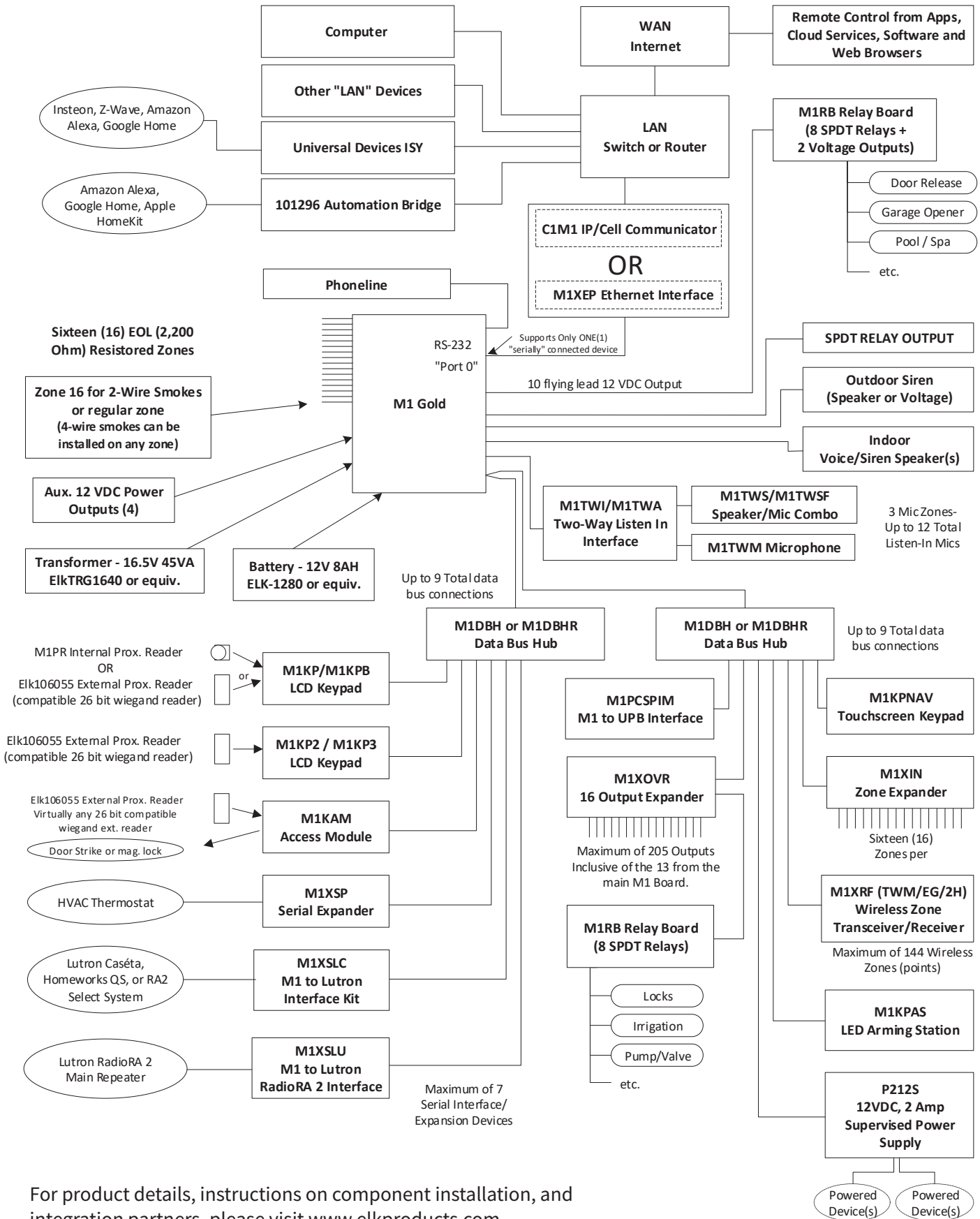
Used for connecting expanders and other peripherals to the M1 Gold Control.

- 4 pin keyed connector
- Approx. 18" long
- RoHS Compliant





# M1 Gold System Design Guide



For product details, instructions on component installation, and integration partners, please visit [www.elkproducts.com](http://www.elkproducts.com)

# Tips for Mounting M1 in ELK Structured Wiring Enclosures

## M1 Gold In SWB14

Modules can be installed on left and right side of M1 Board using the ELK-SWG Glides.



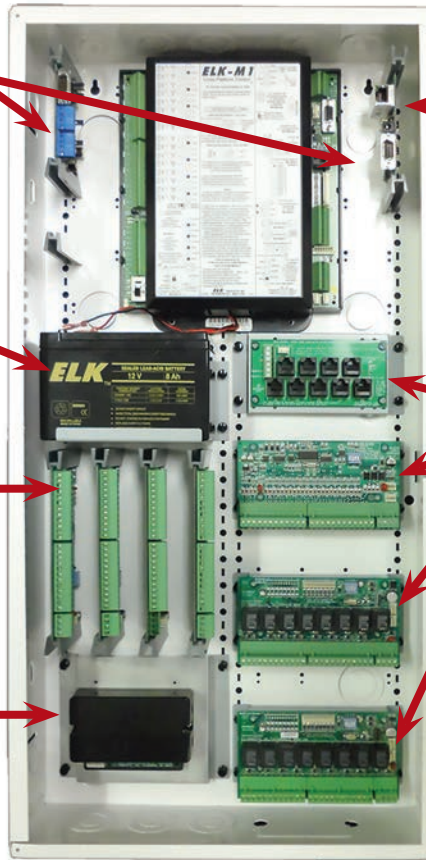
The right side of the M1 board is an ideal place to mount the C1M1 or M1XEP where it will be close to the on-board serial port.

The ELK-1280 battery fits just below the M1 board.

The ELK-SWP3 plate fits just below the M1 board.

## M1 Gold In SWB28

Modules can be installed on left and right side of M1 Board using the ELK-SWG Glides.



The right side of the M1 board is an ideal place to mount the C1M1 or M1XEP where it will be close to the on-board serial port.

Use ELK-SWS shelf for ELK-1280 battery.

Up to 7 additional modules can be mounted in bottom half of the enclosure using the ELK-SWG Glides.

ELK-SWP3 multi-purpose plates can be used to mount many M1 modules.

The ELK-SWP4 multi-purpose plate can accommodate devices in housings or other larger components.

Check out our "Structured Wiring & M1" video on YouTube for more tips & tricks!



Check out these great examples submitted by installers!



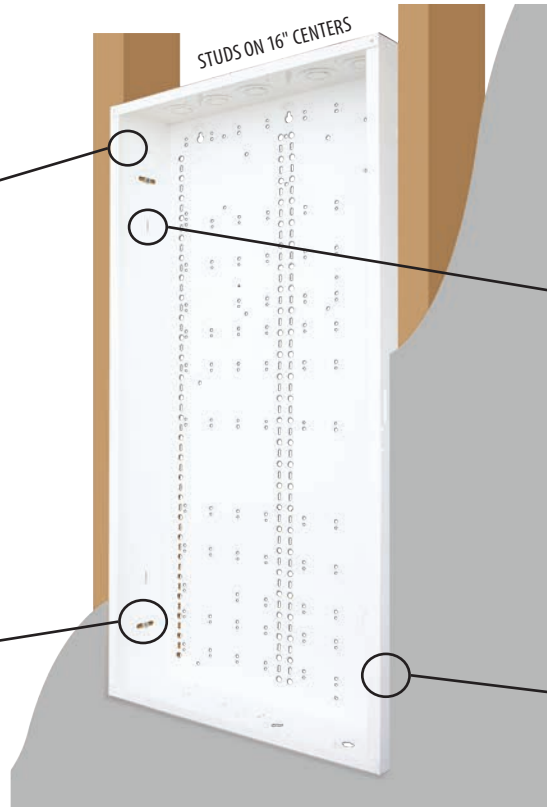
# Structured Wiring

## ELK Structured Wiring Enclosure Features and Installation Tips

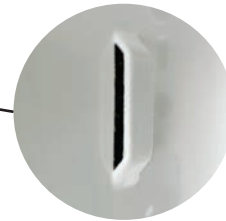
Keyhole slots on side of enclosure simplify installation of hinged door.



Slots allow depth adjustment. Marks on sides assist with depth adjustments.



Organize wires with plastic wire ties or hook & loop strips attached to basket handles along sides of enclosure.



Enclosure should stick out about 3/4" from the finished wall to allow room for hinge.



Conduit knockouts of various sizes are located on all sides and back of the enclosure. Remove desired knockouts prior to mounting.



ELK-SWB28

### 28" Structured Wiring Box

Multi-purpose flush or surface mount cabinet for structured wiring, controls, and peripherals.

- Versatile mounting for multiple manufacturers' structured wiring modules; such as Leviton, OnQ by Legrand, OpenHouse, and others
- Flush Mount, Heavy Duty, locking cover with camlock
- Color: Appliance White
- Knockouts: 1/2", 3/4", and 1 1/4"
- 2" Electrical box knockout in bottom
- Size: 14.25" x 28" x 4.5"
- UL Listed
- RoHS Compliant



### ELK-SWFD28

- Replacement Door with Camlock for ELK-SWB28
- Door Size: 15.63" x 29.88" x .63"
- RoHS Compliant



ELK-SWB14

### 14" Structured Wiring Box

Multi-purpose, surface mount cabinet for structured wiring, controls, and peripherals.

- Versatile mounting for multiple manufacturers' structured wiring modules; such as Leviton, OnQ by Legrand, OpenHouse, and others
- Heavy Duty, Tab Hinged Door with Camlock (optional flush mount door available)
- 2" electrical box knockout in bottom
- Color: Appliance White
- Knockouts: 1/2", 3/4", and 1 1/4"
- Size: 14.25" x 14.25" x 3.5"
- UL Listed
- RoHS Compliant



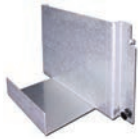


ELK-SWFD14

### Flush Mount Door for ELK-SWB14

Turn the SWB14 into a flush mount enclosure! Can be adjusted for varying wall finish thickness and this locking, removable, hinged door extends beyond the box edges approx. 5/8", easily concealing uneven cutouts of the wallboard edges.

- Ideal for hollow frame walls with studs on 16" centers
- Size: 15.5" x 15.8" x .5"
- RoHS Compliant

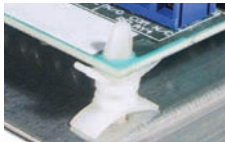


ELK-SWS

### Battery Shelf

Holds up to an 8 Ah battery.

- Mounts into the ELK structured wiring enclosures or onto the SWR rails
- Size: 6.25" x 4.75" x 3.25"
- RoHS Compliant



ELK-SWNS1

### Nylon Standoffs for Circuit Boards

For attaching ELK-M1 expansion boards or other manufacturers' boards onto the ELK-SWP3 or ELK-SWP4 plates.

- Color: White
- 1/4" spacing, fits .156" hole
- Made in USA
- Package of 10 standoffs
- RoHS Compliant



ELK-SWD1

### Grommet Donuts

Pack of 2 grommet donuts for use in structured wire enclosures.

- For use in 1.75" wire holes.
- Protects wires from nicks and scrapes
- Made in USA
- Outside Hole Diameter: 1.75"
- Inside Hole Diameter: 1.25"
- Color: Black
- RoHS Compliant



ELK-SWNSL

### Snap Lock Rivets/Plungers

Replacement rivets/plungers for ELK-SWP4 and ELK-SWP3 plates as well as the ELK-SWS battery shelf.

- Color: Black
- Made in USA
- Package of 10
- RoHS Compliant



ELK-SWR

### Mounting Rails

A package of 2 universal rails to mount adapter plates and modules; such as Telephone, CATV, or Network modules. Accommodates modules from Leviton, OnQ by Legrand, OpenHouse, and others.

- Can be mounted to plywood or other manufacturers' structured wiring boxes
- RoHS Compliant
- Size: 1.125" x 12.5" x .375"
- **Not required in ELK structured wiring enclosures**





ELK-SWG

### Circuit Board Glides

For mounting ELK-M1 expansion boards or other manufacturers' boards into the ELK structured wiring enclosures.

- Vertical Mounting
- Includes mounting screws
- **Made in USA**
- Depth: 2 7/8"
- RoHS Compliant



**SPACE SAVING OPTION FOR MOUNTING M1 MODULES!**



ELK-SWP3

### 3" Multi-purpose Adapter Plate

Convenient, multi-purpose plate adapts peripherals, expansion boards, devices, etc. to fit ELK structured wiring enclosures.

- Mounts into ELK structured wiring enclosures or on SWR rails
- Size: 6.5" x 3" x .5"
- RoHS Compliant



**ACCOMMODATES MANY M1 EXPANSION MODULES!**



ELK-SWP4

### 4" Multi-purpose Adapter Plate

**Ideal for most ELK circuit boards!** Convenient, multi-purpose plate adapts peripherals, expansion boards, devices, etc. to fit ELK structured wiring enclosures.

- Mounts into ELK structured wiring enclosures or on SWR rails
- Size: 6.44" x 4" x .5"
- RoHS Compliant



**OUR MOST VERSATILE MOUNTING PLATE!**

## Reference Guide for ELK Structured Wiring Mounting Accessories

Part Number	ELK-SWG	ELK-SWP3	ELK-SWP4
ELK-100	✓		✓
ELK-101			✓
ELK-110	✓	✓	✓
ELK-120		✓	✓
ELK-124			✓
ELK-129			✓
ELK-800			✓
ELK-930			✓
ELK-941	✓		✓
ELK-950			✓
ELK-951			✓
ELK-955			✓
ELK-960			✓
ELK-964B20			✓
ELK-965			✓
ELK-M1DBH		INCLUDED	
ELK-M1DBHR	INCLUDED		✓
ELK-M1EZ8MSI			✓

Part Number	ELK-SWG	ELK-SWP3	ELK-SWP4
ELK-M1KAM	✓	✓	✓
ELK-M1RB	INCLUDED	✓	✓
ELK-M1TWA			✓
ELK-M1TWI			✓
ELK-M1XEP	✓	✓	✓
ELK-M1XIN	INCLUDED	✓	✓
ELK-M1XOVR	INCLUDED	✓	✓
ELK-M1XSLU	✓		✓
ELK-M1XSP	✓	✓	✓
ELK-M1ZTS			✓
ELK-M1ZTSR			✓
ELK-MM220			✓
ELK-P1215			✓
ELK-P212S		INCLUDED	✓
ELK-P624			✓
ELK-PB1			✓
ELK-PD9	✓		✓
ELK-PD9HC	✓		✓

# WHEN YOU ARM AWAY, KEEP WATER AWAY!

Prevent water damage from leaks and broken pipes with ELK's water shutoff valve and M1 Control.



## Universal Automation Accessories



ELK-WSV2



7 62158 55084 3

### Water Shutoff Valve

The ELK-WSV2 is a professional grade electric water shutoff valve. It is designed for residential and light commercial domestic water applications. Used in conjunction with a 12 VDC controller, leak detection devices, or a simple manual push button, the WSV2 can easily and conveniently shut off the main water supply to the building.

- Rapid Action - Opening or Closing
- Manual control handle for power outages
- Integrates to Security or Automation Controller (e.g. M1 Gold or M1EZ8)
- Can be Integrated with a Manual Push Button or Wireless Receiver and Wireless Push Button
- Valve Direction/Water Flow Indication
- Overall Dimensions: 7.75"H x 4.5"W x 4"D
- Requires 12 VDC Power Supply
- Two (2) Year Warranty
- Current Draw: 800mA to 1.5 Amp
- Actuating Speed: < 2 seconds
- Connections: 18 gauge, 4 conductor cord
- Full Port, 2-way Ball Valve
- Stainless Steel Grade 316
- 1" NPT threaded pipe connections
- NSF 61 Approved for Drinking Water
- NEMA 6P & 7D Enclosure
- RoHS Compliant
- **Made in USA**



ELK-930



7 62158 00930 3

### Doorbell & Telephone Ring Detector

Detects doorbell and/or telephone ring to trigger automation events.

- Snap apart board includes 2 doorbell sensors and 1 phone sensor
- Double Sided Foam Mounting Tape Included
- Packaged in Reusable Poly Storage Box
- Lifetime Limited Warranty
- Max Doorbell Input: 24 Volts AC Nominal
- Doorbell Detection Current: 900mA minimum
- Max Output: 40mA @ 12 VDC
- Size 3.4" x 2.75" x .625"
- RoHS Compliant
- **Made in USA**



ELK-9200



7 62158 09200 8

### Heavy Duty Relay/Contactor

Designed for remotely controlling high current devices. The relay coil is pre-wired with a three (3) prong plug-in cord. This plug is compatible with virtually any appliance style automation module (purchased separately) including: UPB, Insteon, Z-Wave, Zigbee, X10, etc. A simple remote command can be sent to activate the automation module, which activates the ELK-9200 relay, permitting the safe and easy On/Off switching of a 110VAC or 220VAC device drawing up to 30 Amps of total electrical current.

- Pre-Wired Terminal Lugs for easy Installation
- 110 VAC Plug Cord for Energizing Relay Coil
- Heavy Duty "Lockable" Metal Enclosure
- Relay Suitable for a 110 VAC or 220 VAC Load
- Ideal for Water Heaters, Motors, Gates, Pumps, etc.
- Lifetime Limited Warranty
- Operating Coil Voltage: 110 VAC
- Coil Current Draw: < 35 mA
- Two Pole Relay Contacts rated for 30 Amps AC (combined maximum of 30 Amp total current)
- Metal Enclosure Size: 12" x 12" x 3.375"
- Color: White
- Not suitable for wet locations
- RoHS Compliant

# Stainless Steel Enclosed Speakers/Sirens



ELK's 1RT speaker and 150RT siren provide a rugged quality, tamper and corrosion resistant enclosure perfect for all jobs. With their compact design and stainless steel construction, these speakers and sirens naturally reflect the mounting surface, blending easily into the surroundings. Great for harsh environments.

- Corrosion resistant stainless steel enclosure
- Compact, yet super loud
- Heavy duty magnet and mylar cone
- Matching strobe (ELK-SL1) in 4 colors
- Exterior or interior use
- RoHS Compliant
- Tamper resistant
- Anti-foam and insect screen
- Size: 5" x 5" x 4"
- 304 Stainless Steel with stainless hardware
- Lifetime Limited Warranty



## ELK-1RT Speaker & Stainless Steel Enclosure

- Clear Voice & Sound Reproduction
- High Fidelity voice coil
- Impedance: 8 Ohms
- Rating: 30 Watts Nominal / 50 Watts Peak
- Frequency Response: 500 to 7000 Hz
- Heavy duty magnet



## ELK-150RT Siren & Stainless Steel Enclosure

- Works well with any control to produce separate sounds (ComboTrigger™) for fire and burglar from a single pulsing output
- Output: 118 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC



# Strobes



ELK-SL1B mounted to ELK-1RT

## LED Strobes for Stainless Steel Enclosed Speaker/Siren

A weather resistant, indoor/outdoor strobe light. Adds visual indication for alarms, warnings, hearing impaired applications, etc. Attaches easily to ELK's stainless steel enclosed units (ELK-1RT & ELK-150RT) or to wall using ELK-WK1. Features simple 12 VDC two wire hookup and compatibility with most control panels.

- Interior or exterior use
- Works with steady or pulsing alarm outputs
- Fits ELK Stainless Steel Enclosed Speaker/Sirens
- May be wall mounted (see ELK-WK1)
- Easy to Install, simple 2 Wire Hookup
- RoHS Compliant
- Durable Polycarbonate Construction
- Colors: Clear, Red, Blue, or Amber
- Operating Voltage: 12 VDC
- Flash Rate: Approx. 1 Flash per second
- Size: 4.875" x 3.875" x 1.125"
- Lifetime Limited Warranty



ELK-SL1A  
Amber Strobe



ELK-SL1B  
Blue Strobe



ELK-SL1C  
Clear Strobe



ELK-SL1R  
Red Strobe



ELK-WK1

## Wall Mount Kit for ELK-SL1 Strobe Light

Esthetically pleasing cover allows mounting of ELK-SL1 directly to wall surfaces.

- Attractive cover
- Indoor/Outdoor
- Durable ABS Plastic
- Easy to Install
- RoHS Compliant
- Color: White
- Mounting Hardware Included
- Size: 5.125" x 2.625" x 1.375"
- Lifetime Limited Warranty



# Echo™ Paintable Speakers/Sirens



The versatile Echo™ Series speakers and sirens are designed to be heard but not seen! Sound "echoes" off mounting surface from back plate edge. The unique contemporary design has a smooth, paintable, "no grill" surface that easily blends with any decor.

- May be painted or wallpapered to please the most discerning decorator
- Mounts to any flat surface or single gang electrical box
- Interior use only
- RoHS Compliant
- Color: White
- Mounting Hardware Included
- **Lifetime Limited Warranty**

## A. ELK-70

### Echo™ Speaker

- Interior Speaker
- Great for Voice and Sounds
- Impedance: 8 Ohms
- Rating: 20 Watts Nominal
- Frequency Response: 500 to 7000 Hz
- Size: 4.375" x 6.375" x 1.875"



## B. ELK-71

### Echo™ Siren

- Interior Alarm Siren with Yelp and Steady Tones
- Operating Voltage: 6 - 14 Volts DC
- Sound Level: 100 db @ 1 Meter, 13.8VDC
- Current Draw: 480mA @ 13.8VDC
- Size: 4.375" x 6.375" x 1.875"



## C. ELK-73

### Compact Echo™ Speaker

- Small, Interior Speaker
- Great for Voice and Sounds
- Impedance: 8 Ohms
- Rating: 20 Watts Nominal
- Frequency Response: 500 to 7000 Hz
- Size: 4.56" x 4.3" x 1.875"



## D. ELK-74

### Compact Echo™ Siren

- Small, Interior Alarm Siren with Yelp and Steady Tones
- Operating Voltage: 6 - 14 Volts DC
- Sound Level: 100 db @ 1 meter, 13.8VDC
- Current draw: 480mA @ 13.8VDC
- Size: 4.56" x 4.3" x 1.875"



# Interior Speakers/Sirens



## E. ELK-SP12F

### Flush Mount Speaker

Features compact, low profile design. Wall plate size allows unit to be unnoticed at outlet height. 32 ohm impedance allows multiple speakers to be wired in parallel, while maintaining an overall load rating that is acceptable for most control panels.

- 12 Watt, 32 Ohm Interior Speaker
- Ideal for alarm or voice applications
- Fits single gang electrical boxes
- Size: 4.81" x 3.13" x 1.44"
- **Lifetime Limited Warranty**
- RoHS Compliant



# Surface Mount Speakers/Sirens

- Compact
- Easy To Mount, Hardware Included
- Color: White
- Size: 4.25" x 4.25" x 2.13"
- RoHS Compliant
- **Lifetime Limited Warranty**

## F. ELK-SP35

### 20 Watt Interior Speaker

- Great for voice or sounds
- Impedance: 8 Ohms
- Rating: 20 Watts Nominal
- Frequency Response: 250 to 8000 Hz



## G. ELK-SS36

### Two Tone, Self-Contained Interior Siren

- Two Input Channels - Steady & Yelp
- Output: 108 db @ 1 meter, 13.8VDC
- Operating Voltage: 12 VDC
- Current draw: 500mA @ 13.8VDC
- UL Listed





# Multi-Purpose Speakers/Sirens



## Rugged, Compact Speakers/Sirens

- Easy To Mount
- Interior or Exterior use

- Color: Black
- Size: 4" x 4" x 3.5"

- RoHS Compliant
- [Lifetime Limited Warranty](#)

### H. ELK-44 30 Watt Speaker

- Ideal for Alarm Systems or Paging
- Loud - Rivals Sound of Larger Speakers
- Heavy duty magnet and mylar cone
- High Fidelity Voice Coil

- Impedance: 8 Ohms
- Rating: 30 Watts Nominal / 50 Watts Peak
- Frequency Response: 500 to 7000 Hz



### I. ELK-45 Loud, Self Contained Siren

- ComboTrigger™ Produces two distinct tones from single pulsing alarm outputs
- Output: 118 db @ 1 meter, 13.8VDC

- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC



## Horn Speakers/Sirens

- Easy To Mount
- Interior or Exterior use

- Color: White
- [Lifetime Limited Warranty](#)

- RoHS Compliant

### J. ELK-M120 Compact, Dual Tone Siren

Self-contained, exterior alarm siren. Small size makes it ideal for tight spaces.

- Output: 110 db @ 1 meter, 13.8VDC
- Operating Voltage: 12 VDC

- Current draw: 500mA @ 13.8VDC
- Size: 3.25" x 4" x 4"



### K. ELK-SP15 15 Watt Speaker

- Multi-purpose, horn speaker
- Impedance: 8 Ohms
- Rating: 15 Watts Nominal

- Frequency Response: 500 to 7000 Hz
- Size: 5.25" x 6"



### L. ELK-SS15 Two Tone Siren

- Self-contained, exterior alarm siren
- Two Tones - Yelp & Steady
- Output: 115 db @ 1 meter, 13.8VDC
- Operating Voltage: 12 VDC

- Current Draw: 550mA @ 13.8VDC
- Size: 5.25" x 6"
- UL Listed



### M. ELK-SP30 30 Watt Speaker

- Multi-purpose horn speaker
- Great for voice or sounds
- Ideal for Alarm Systems or Paging
- High Fidelity Voice Coil

- Impedance: 8 Ohms
- Rating: 30 Watts Nominal
- Size: 6" x 8" x 9.5"
- Frequency Response: 500 to 7000 Hz



### N. ELK-SS30 Two Tone Siren

- Self-contained, exterior alarm siren
- Two Tones - Yelp & Steady
- Output: 122 db @ 1 meter, 13.8VDC
- Operating Voltage: 12 VDC

- Current draw: 1000mA @ 13.8VDC
- Size: 6" x 8" x 9.5"
- UL Listed



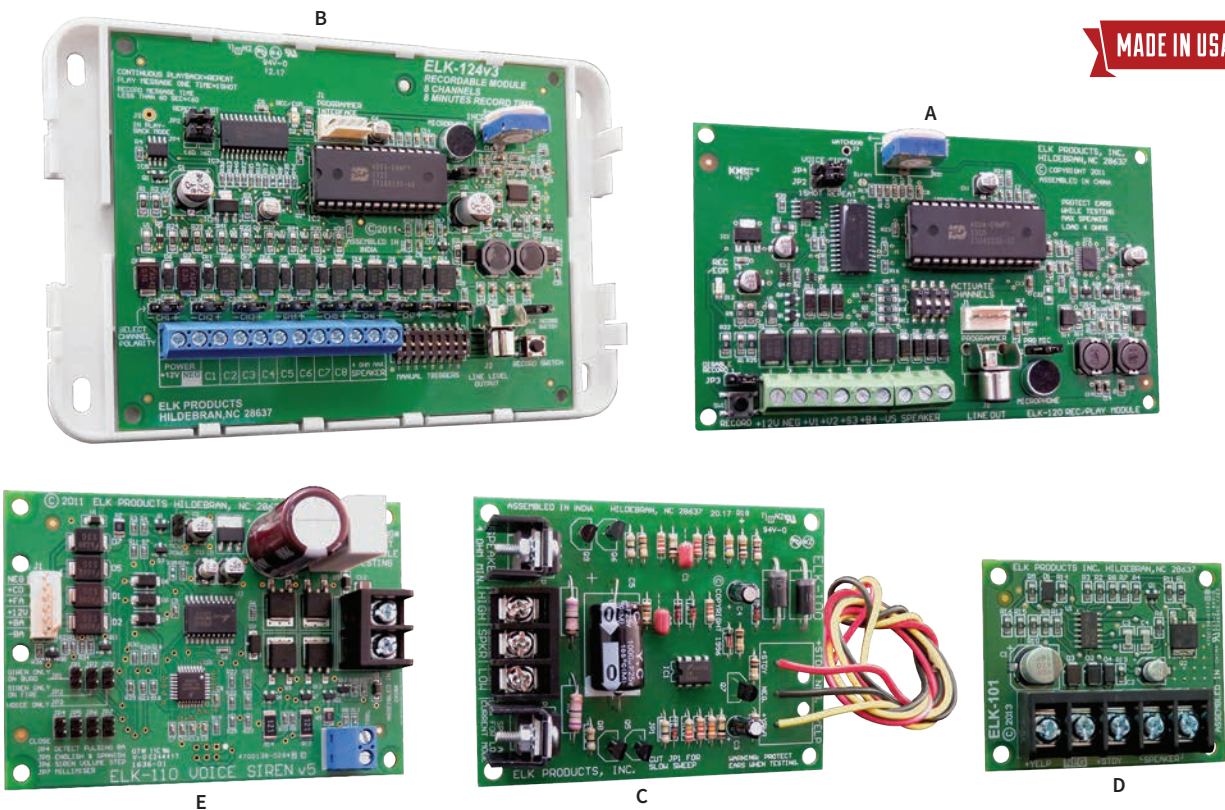
### O. ELK-SP40 40 Watt Speaker

Heavy duty, horn speaker when maximum volume and clarity are a must.

- Great for voice or sounds
- Ideal for Alarm Systems or Paging
- Tamper Loop
- High Fidelity Voice Coil

- Impedance: 8 Ohms
- Rating: 40 Watts Nominal
- Freq. Response: 250 to 8000 Hz
- Size: 11" x 6.5" x 8.5"





## A. ELK-120 Recordable Voice and Siren Driver with Temporal Code

This unique driver can be utilized as 4 recordable channels or 2 siren channels and 2 recordable channels. Recording is easy using the on-board microphone or the ELK-129 sound card interface to transfer voice/sound .wav files from a PC.

- Up to 4 messages, or 2 voice + 2 siren
- On-board microphone
- 24 W Audio Amplifier with volume control
- One shot & repeat modes of playback
- Line level and speaker outputs
- Momentary/maintained "+" triggering
- Connector for PC sound card interface, ELK-129
- Sounds: Classic Yelp Siren, Temporal Coded Horn, and Steady Industrial Horn
- Maximum record time: 8 minutes
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Output: 120 db @ 1 meter, 13.8VDC
- Operating Voltage: 11 to 14 Volts DC
- Current Draw: 200 mA Nom., 2 A Max.
- Size: 3" x 5" x 1.25"
- RoHS Compliant
- [Lifetime Limited Warranty](#)



## B. ELK-124 Recordable Voice Annunciator

Applications are nearly endless with this versatile unit. It allows up to 8 custom announcements which can be related to security, video surveillance, access control, museum narratives, amusement sounds/messages, on-hold messages, equipment warnings, etc.

- Up to 8 messages
- On-board microphone
- 24 W Audio Amplifier with volume control
- One shot & repeat modes of playback
- Line level and speaker outputs
- Momentary/maintained "+" or "-" triggering
- Connector for PC sound card interface, ELK-129
- Maximum record time: 8 minutes
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Output: 120 db @ 1 meter, 13.8VDC
- Operating Voltage: 11 to 14 Volts DC
- Current Draw: 200 mA Nom., 2 A Max.
- Enclosure Size: 4.375" x 6.5" x 2"
- RoHS Compliant
- [Lifetime Limited Warranty](#)



## ELK-129 PC Sound Card Interface for Recordable Drivers

This interface allows you to download Audio .Wav files from your computer to ELK's recordable modules.

- Program ELK's recordable modules from PC
- Audio Jacks: Computer in and speaker out
- Includes: 6 Ft. audio cable & ribbon interface cable
- RoHS Compliant
- [Lifetime Limited Warranty](#)
- PC requirements: Stereo speaker output jack or Sound Card and speakers
- Input Power Required for programming ELK-120 or ELK-124: 12 VAC, 20VA Transformer (not included)



### C. ELK-100

#### High Performance Siren Driver

Great for residential or commercial alarm installations, the ELK-100 offers 2 volume levels simultaneously, allowing exterior sound to be louder than interior.

- Two Volume Level Choices
- 3 sound options: Steady, Yelp, and Slow Sweep
- MilliMiser™ Lowers Current Draw
- ComboTrigger™ for Controls with Single Alarm Outputs
- Pre-Wired for easy installation
- Output: 120 db @ 1 meter, 13.8VDC OR 109 dB on MilliMiser™ setting
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC, (700 mA on MilliMiser™ setting)
- Size: 2.75" x 3.6"
- RoHS Compliant
- Lifetime Limited Warranty



### D. ELK-101

#### Two Channel Low Current Siren Driver

The ELK-101 is a two channel (Yelp and Steady) siren driver. It can be powered from 6 or 12 VDC and is compatible with a wide variety of alarm panels.

- Two channel operation, steady and yelp sounds
- Steady overrides yelp if both are triggered
- Very low current draw
- Terminal blocks for easy hookup
- Reverse polarity protection
- Output: 112 db @ 1 meter, 13.8VDC
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Operating Voltage: 6 or 12 VDC
- Current Draw: 305mA to 950mA
- Size: 1.9" x 2.3" x .7"
- RoHS Compliant
- Lifetime Limited Warranty



### E. ELK-110

#### CO, Burg & Fire Voice Siren Driver with Temporal Codes & VolumeStep™

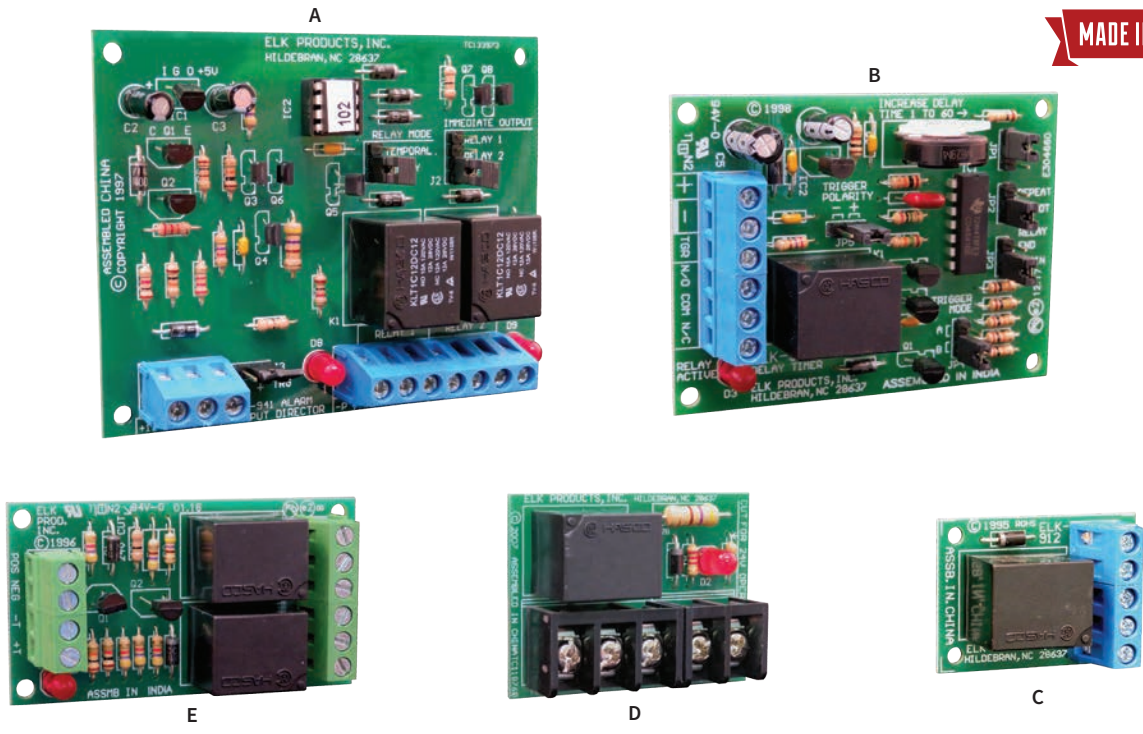
The ELK-110 is ideal for residential and commercial alarm applications. It combines the advantages of high quality voice messages with conventional siren and temporal code tone sounds. It features 3 input channels, bilingual voice messages, and many unique options.

- 3 Input Channels: Burglar, Fire, and CO
- Siren only, Voice only, or combination
- Bilingual Voice: English and/or Spanish
- 3 Volume Settings:
  - Millimiser 90dB @ 1 meter, 800mA
  - Full 122 db @ 1 meter, 1.25 A
  - VolumeStep™, low to full volume in 30 seconds
- Speaker Trouble Supervision
- Size: 2.75" X 4.0"
- Temporal Coded Tones - ANSI standard Audible Emergency Evacuation Signaling
- Freq. Temporal 3=800Hz, Temporal 4=1000Hz
- Nom. Operating Voltage: 10-14 Volts DC
- Min. Low Current Trigger: 10.5 VDC
- Maximum Speaker Loading: 4 Ohms
- RoHS Compliant
- Lifetime Limited Warranty



## SIREN/VOICE DRIVER FEATURE COMPARISON

	ELK-100	ELK-101	ELK-110	ELK-120	ELK-124
<b>Siren Sounds</b>	✓ Yelp, Steady, Slow Sweep	✓ Yelp, Steady	✓ Yelp (Burg), Temporal Coded Tones (Fire & CO)	✓ Preloaded Yelp, Industrial Horn & Temporal Coded Tone (Fire)	✓ No Preloaded Sounds
<b>Voice Capability</b>	✗ No Voice	✗ No Voice	✓ Burg, Fire, and CO Voice Messages	✓ Preloaded Burg & Fire Messages	✓ No Preloaded Messages
<b>Recordable</b>	✗ NO	✗ NO	✗ NO	✓ YES 4 Channels	✓ YES 8 Channels
<b>Connections</b>	Flying Leads	Screw Terminals	Plug-In Harness	Screw Terminals	Screw Terminals
<b>Sound Level</b>	120 dB @ 1 meter	112 dB @ 1 meter	122 dB @ 1 meter	122 dB @ 1 meter	122 dB @ 1 meter
<b>Volume Settings</b>	Two Levels (High/Low)	None	VolumeStep™ (slowly increases siren volume)	Adjustable Volume	Adjustable Volume
<b>Current Draw (Min /Max)</b>	700mA / 1.2 Amps	305mA / 950mA	800mA / 1.25Amps	200mA / 2 Amps	200mA / 2 Amps
<b>Operating Voltage</b>	6-14 VDC	6-14 VDC	10-14 VDC	11-14 VDC	11-14 VDC
<b>Dimensions</b>	2.75" x 3.6" x 1"	1.9" x 2.3" x .7"	2.75" x 4.0" x 1.13"	3" x 5" x .8"	4.38" x 6.5" x 2" (enclosure)
<b>Lifetime Limited Warranty</b>	✓ YES	✓ YES	✓ YES	✓ YES	✓ YES



## A. ELK-941

### Alarm Output Director

Allows single output control to activate 2 separate relays to provide steady voltage to 2 devices. Intelligently determines whether the source is pulsing or steady. Can be triggered by a positive or negative source. Possible uses include triggering long-range radio or cellular dialers, fire bells, strobes and siren drivers.

- Ideal For Two (2) Channel Long Range Radio, Cellular Transmitters, or strobes
- Meets ANSI S3.41 Audible Emergency Evacuation Signals 3-Pulse Pattern
- Elevator Style Screw Terminals
- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Pulsing Input: .1 - 4sec. (.125-6hz)
- Trigger Voltage: 9 - 14VDC, Pos or Neg
- Trigger Current: 15mA
- Operating Voltage: 12 VDC
- Current draw: 96mA (both relays on)
- Size: 4.4" x 3" x 1.15"
- RoHS Compliant
- [Lifetime Limited Warranty](#)



## B. ELK-960

### Relay Module with Timer

Economical and flexible relay with timer for all purpose use. It features positive or negative trigger logic with triggers as low as 4.5 V, making it compatible with 5 V logic outputs.

- Adjustable Time Delay
- Operating Modes: One-Shot or Repeat
- Low Current Input Trigger (<1mA)
- Configurable to be normally on or normally off
- Elevator Style Screw Terminals
- Size: 3" x 2.2" x 1" (Fits Standard Snap Track)
- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Time Settings: 1-60 Seconds or 1-60 Minutes
- Trigger Voltage: 4.5 - 24VDC, Pos or Neg
- Operating Voltage: 12 to 24 Volts DC
- Current Draw: 40 mA (relay on)
- RoHS Compliant
- [Lifetime Limited Warranty](#)



## Compact Relay, 12 Volt

Quality, heavy duty relay module with SPDT (Form "C") dry contacts.

- Positive Or Negative Activation
- Low Current Draw
- Elevator Style Screw Terminals
- Size: 1.1" X 1.55" each
- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Operating Voltage: 12 VDC
- Current draw: 30mA (relay on)
- Includes Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- RoHS Compliant
- [Lifetime Limited Warranty](#)

## C. ELK-912

- Single Relay



## ELK-91212

- Snap-Apart 12 Pack



### Relay, 12/24 Volt

Quality, heavy duty relay module with SPDT Form "C" dry contacts and LED indicator.

- High Quality Large Cross Head Screw Terminals
- Positive Or Negative Activation
- Low Current Draw
- Voltage Input and Status LED
- Size: 2" X 1.5" each
- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Operating Voltage: 12 or 24 Volts DC
- Current draw: 35mA, triggered (relay on)
- Includes Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- RoHS Compliant
- Lifetime Limited Warranty

#### D. ELK-912B

- Single Relay



#### ELK-912B6

- Snap-Apart 6 Pack



### Sensitive Relay, 12/24 Volt

Sensitive trigger, heavy duty relay module with DPDT (Form "C") dry contacts.

- Trigger Current: 1.2mA @ 5-24VDC
- Positive (+) Or Negative (-) Trigger Input
- 12 or 24 VDC Selectable Operation
- Voltage Input LED
- Mounts in Standard 2.75" Snap Track
- Elevator Style Screw Terminals
- Size: 1.5" X 2.75" each
- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Trigger Voltage: 5 - 24VDC, Pos or Neg
- Operating Voltage: 12 or 24 Volts DC
- Current draw: 60mA (both relays on)
- Incl. Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- RoHS Compliant
- Lifetime Limited Warranty

#### E. ELK-924

- Single Relay



#### ELK-9244

- Snap-Apart 4 Pack



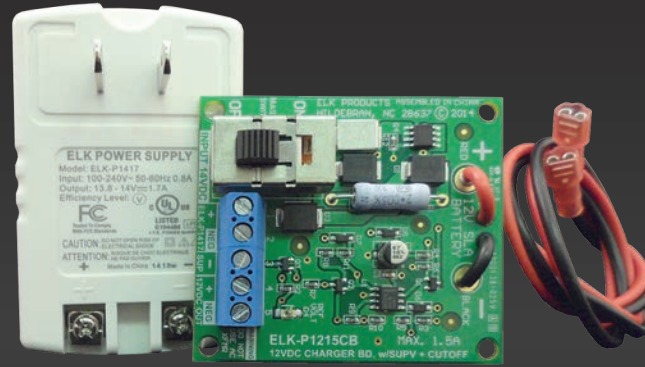
### RELAY FEATURE COMPARISON

	ELK-912	ELK912B	ELK-924	ELK-941	ELK-960
<b>Type/Description</b>	Compact	12/24 Volt	Sensitive Trigger	Alarm Output Director	Relay with Timer
<b>Purpose</b>	General purpose switching of devices or high current loads	General purpose switching of devices or high current loads	Use with low current triggers for switching of devices and high current loads	Allows single output control to activate 2 separate relays to provide steady voltage to 2 devices	Economical and flexible with timer for all purpose use
<b>Operating Voltage</b>	12 VDC	12 or 24 VDC	12 or 24 VDC	12 VDC	12 to 24 VDC
<b>Current Draw</b>	30 mA	35 mA	60 mA	96 mA	40mA
<b>Trigger Voltage</b>	-	-	5-24 VDC Positive or Negative	9-14 VDC Positive or Negative	4.5-24 VDC Positive or Negative
<b>Relay Contact Ratings</b>	7A @ 28VDC, or 10A @ 125VAC	7A @ 28VDC, or 10A @ 125VAC	7A @ 28VDC, or 10A @ 125VAC	7A @ 28VDC, or 10A @ 125VAC	7A @ 28VDC, or 10A @ 125VAC
<b>Relay Contact Type</b>	SPDT Form "C" Dry Contacts	SPDT Form "C" Dry Contacts	DPDT Form "C" Dry Contacts	2)SPDT Form "C" Dry Contacts	SPDT Form "C" Dry Contacts
<b>Status LED</b>	✗ NO	✓ YES	✓ YES	✓ YES	✓ YES
<b>Available in money saving "snap apart" multi-packs</b>	✓ YES ELK-91212 (12 Pack)	✓ YES ELK-912B6 (6 Pack)	✓ YES ELK-9244 (4 Pack)	✗ NO	✗ NO
<b>Size</b>	1.1" x 1.55"	2" x 1.5"	1.5" x 2.75"	4.4" x 3"	3" x 2.2"
<b>Lifetime Limited Warranty</b>	✓ YES	✓ YES	✓ YES	✓ YES	✓ YES



# Reliable Power

for a variety of applications!



## Power Supply & Battery Charger



**Master Power Switch**  
Turns On/Off DC Input & Battery



**Low Battery Supervision**  
and Deep Discharge Cutoff Protection

## Power Supplies

### POWER SUPPLY/BATTERY CHARGER KITS

Multi-purpose 12 VDC power supplies for security, access control, cameras, etc. Provides up to 1.5 amps of current and features low battery supervision output with built in low battery cutoff and master power switch. Great for powering end of line devices.



- Auto-Resetting Overload Protection
- Built-In Battery Charging Circuit
- Low Battery Trouble Output
- Low Battery Deep Discharge Cutoff Protection
- Master Power Switch
- RoHS Compliant
- ***Lifetime Limited Warranty***

- Power Supply Input: 14 Volts DC provided by ELK-P1417
- Continuous Output Current: 1.5 Amps
- Low Battery Trouble: 11 Volts (nominal)
- Low Battery Cutoff: 9 Volts (nominal)
- PC Board Size: 2.25" X 2.5"
- Battery Charging Capacity: 1 to 12 Ah

#### ELK-P1215

12 VDC Power Supply & Charger

- Intelligent Charger Board
- 14VDC Plug-in Power Supply (ELK-P1417)



#### ELK-P1215K

12 VDC Power Supply & Charger with Battery

- Intelligent Charger Board
- 14VDC Plug-in Power Supply (ELK-P1417)
- 12V, 5 Ah Battery (ELK-1250)



**ELK-P1417**



#### Plug-in DC Power Supply

All purpose 14 Volt DC Plug-In Switching Power Supply ideal for alarm, access control, and CCTV applications. It plugs into a 120 Volt AC outlet and supplies 1.7 Amps.

- UL Listed for US and Canada
- RoHS compliant (RoHS2-2011/65/EU)
- Compliant with Energy Star EISA Level V
- Screw terminals for DC output
- Includes optional receptacle mounting bracket
- DC Output Voltage: 13.8 to 14 Volts DC
- Current Rating: 1.7 Amps
- Color: White
- Size with mounting bracket: 3.07" x 2.83" x 1.5"
- ***Lifetime Limited Warranty***

## CANNED POWER SUPPLIES

Multi-purpose power supplies with metal enclosure for security, CCTV, access control, cellular backup, etc.

- Auto Resetting (PTC) Overload Protection
- Visual AC & DC Power Indicators
- AC & DC Surge Suppression
- Built-In Battery Charging Circuit: 1.2Ah to 10Ah Capacity
- Color: White
- Heavy Duty Metal Enclosure with camlock
- Size: 12" x 12" x 3.5"
- RoHS Compliant
- ***Lifetime Limited Warranty***
- **Made in USA**



ELK-P112K

### ELK-P112

12 VDC Power Supply & Battery Charger in Can

- Continuous Current Rating: 1 Amp
- Includes ELK-TRG1640 Transformer



### ELK-P124

24 VDC Power Supply & Battery Charger in Can

- Continuous Current Rating: 800 mA
- Includes ELK-TRG2440 Transformer



### ELK-P112K

12 VDC Power Supply & Battery Charger in Can with battery

- ELK-P112 kit with 12 V, 5Ah battery



### ELK-P124K

24 VDC Power Supply & Battery Charger in Can with batteries

- ELK-P124 kit with two 12 V, 5Ah batteries



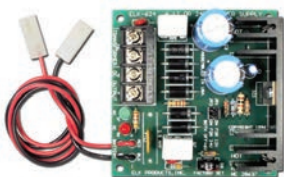
### ELK-P412

4 Amp, 12 VDC Power Supply & Battery Charger in Can

- Three (3) PTC Protected Power Outputs
- Master Power On/Off Switch
- Visual Power Indicators
- Switching Power Supply, no transformer needed
- Built-In Battery Charging Circuit
- Regulated Output Voltage: 13.8 VDC
- Continuous Current Rating: 4 Amps
- AC Input Voltage Range: 120 VAC @ 47-63Hz
- Built-in Low Battery Cutoff:  $\approx$  10 Volts
- Battery Recharging Capacity: 1.2Ah to 10Ah
- RoHS Compliant
- ***Lifetime Limited Warranty***



## OTHER POWER SUPPLIES



ELK-P624



### 6, 12, or 24VDC Power Supply Board

Trouble-free, general-purpose power supply/charger ideal for alarm, access control, and CCTV applications. Features auto-resetting "fuseless" overload protection which eliminates costly service calls to replace blown fuses.

- Auto-Resetting "fuseless" overload protection
- Selectable 6, 12, or 24 VDC Output
- Visual AC & DC Power Indicators
- Built-in Surge Suppression
- Battery Charging Circuit
- Size: 3" x 3" x 1"
- RoHS Compliant
- ***Lifetime Limited Warranty***
- **Made in USA**
- Output Current:
  - 1.2 Amps @ 6V
  - 1 Amp @ 12V
  - .8 Amps @ 24V
- Input Transformer Requirements:
  - 6V operation: 12 VAC Transformer
  - 12V operation: 16.5 VAC (TRG1640)
  - 24V operation: 24 VAC (TRG2440)



ELK-P212S



### Supervised Remote Power Supply

The ELK-P212S is a Supervised Remote Power Supply / Battery Charger, providing 12 VDC output with up to 2 Amps of total current. It supervises the AC Power Input as well as the rechargeable battery. It features relay outputs for AC and Low Battery to allow "stand-alone" operation with any 12 VDC control. When used with M1, it can report abnormal conditions over the RS-485 four (4) wire data bus.

- M1 Control allows:
  - Remote power reset of powered peripherals
  - Data-bus supervision of AC and Battery status
- Stand-alone flexibility for all 12 VDC Controls
  - Two (2) sets of DC outputs
  - On-board relay to supervise battery status
  - On-board relay to supervise AC status
- Master AC and Battery ON/OFF Power Switch
- Visual AC Power Indicator
- RoHS Compliant
- AC Input: 16.5VAC, 45VA (TRG1640 or equiv.)
- DC Output Voltage: 13.8 VDC +/- 5%
- Current Rating: 2.0 Amps
- Wattage: 30 Watts
- DC Output Protection: Auto Resetting PTC
- Rechargeable Battery Size: Max. 12 Ah
- Low Battery Cutoff Threshold: ~10 Volts.
- Size: 5.5" x 3.25" x 1.25"
- Two (2) year warranty
- **Made in USA**



ELK-P1216



### Plug-in Switching DC Power Supply

All purpose 12 Volt DC Plug-In Switching Power Supply ideal for alarm, access control, and CCTV applications. It plugs into a 120 Volt AC outlet and supplies 1.5 Amps of regulated 12 VDC.

- Computer Grade Switching Power Supply
- Regulated 12 VDC Output
- Slimline Design
- UL Listed
- RoHS Compliant
- Efficiency Level: VI
- DC Output Voltage: 12 VDC
- Current Rating: 1.5 Amps
- Six foot cord and 2.1mm Power Plug (center positive)
- Color: Black
- Size: 2.88" x 1.75" x 1.13"
- Lifetime Limited Warranty

## POWER SUPPLY FEATURE COMPARISON

	ELK-P112	ELK-P124	ELK-P624	ELK-P412	ELK-P1215	ELK-P1417	ELK-P212S	ELK-P1216
Voltage	12 VDC	24 VDC	6, 12, or 24 VDC	12 VDC	12 VDC	14 VDC	12 VDC	12 VDC
Current	1 A	800 mA	1.2 A @ 6V 1 A @ 12V 800mA @ 24V	4 A	1.5 A	1.7 A	2 A	1.5 A
Supervision	✗ NO	✗ NO	✗ NO	✗ NO	✓ Low Battery	✗ NO	✓ AC Failure & Low Battery	✗ NO
On/Off Switch	✗ NO	✗ NO	✗ NO	✓ YES	✓ YES	✗ NO	✓ YES	✗ NO
Required Transformer	ELK-TRG1640 (Included)	ELK-TRG2440 (Included)	6V: 12VAC Transformer 12V: 16.5VAC (TRG1640) 24V: 24VAC (TRG2440)	Includes 6ft. AC Power Cord	P1417 (Included)	N/A	ELK-TRG1640 (not included)	N/A
Battery Charging Capacity	1.2Ah to 10Ah	1.2Ah to 10Ah	1.2Ah to 10Ah	1.2Ah to 10Ah	1 to 12 Ah	N/A	1 to 12 Ah	N/A
Enclosure Included	✓ YES	✓ YES	✗ NO	✓ YES	✗ NO	✗ NO	✗ NO	✗ NO
Kit Available with 5Ah Battery	✓ YES ELK-P112K*	✓ YES ELK-P124K*	✗ NO	✗ NO	✓ YES ELK-P1215K*	✗ NO	✗ NO	✗ NO
Lifetime Limited Warranty	✓ YES	✓ YES	✓ YES	✓ YES	✓ YES	✓ YES	✗ NO 2-Year Warranty	✓ YES

\*Batteries in kits carry 2 year warranty. Other component carry lifetime limited warranty.



# The Original

## AUTO-RESETTING AC TRANSFORMERS



Trusted by Professionals for Over 17 Years!

The pros know a reliable power source is the foundation of any alarm, access control, or CCTV system. That's why installers trust ELK's Auto-Resetting AC Transformers for quality, installer friendly features, and a hassle-free lifetime warranty. Now these industry favorites are more energy efficient!



## Auto-Resetting Transformers

- Efficiency Level VI
- Wire Strain Relief
- Auto-Resetting PTC Overload Protection
- LED Power On Indicator
- Grounding Prong and Terminal

- Electrical outlet mounting tab
- Color: White
- Size: 4.14" x 2.74" x 2.2"
- RoHS Compliant
- UL Listed



### ELK-TRG1640

- 16.5 VAC, 45 VA Auto Resetting Transformer
- Input Voltage: 120 VAC, 60Hz, .43W
  - Output Voltage: 16.5 Volts AC
  - Output Power: 45 VA



### ELK-TRG2440

- 24VAC, 40 VA Auto Resetting Transformer
- Input Voltage: 120 VAC, 60Hz, .43W
  - Output Voltage: 24 Volts AC
  - Output Power: 40 VA



## Power Distribution Units

These convenient modules distribute power from a single AC or DC source to up to 9 outputs for centrally powering cameras, PIR's, photobeams, etc.

- Terminal blocks & 2.1mm DC power jack for power connection
- Auto-resetting PTCs help prevent a shorted output from disabling the other outputs
- Master power on/off switch
- Visual LED power indicators on each output
- Convenient test points for measuring total current draw
- Outputs may be paralleled to increase max current draw from each output
- Requires a 6 to 30 volt AC or DC power source (not included)
- Color: White
- Size: 6.5" x 4.3" x 2"
- RoHS Compliant
- Lifetime Limited Warranty



### ELK-PD9

- Max current draw: 250mA from each output
- Max combined current draw: Not to exceed input power source or 2.3A



### ELK-PD9HC

- Max current draw: 400mA from each output
- Max combined current draw: Not to exceed input power source or 3.6A



*If all batteries look alike, how do you choose?*















## Choose ELK Batteries with a 2 Year Over-the-Counter Warranty

### RECHARGEABLE BATTERIES

Premium Quality, Sealed Lead Acid Batteries with 2 Year Over-the-Counter Warranty

- Rechargeable
- All virgin materials for long life
- More lead for greater Ah capacity
- Size comparable to other manufacturers lower Ah sizes
- UL recognized component
- 2 Year Over-the-Counter Warranty

<p><b>ELK-0613</b> 6 Volt, 1.3 Ah • 3.82" x .94" x 2.01" • .187" F-1 Faston Tab</p>  <p>7 62158 00613 5</p>	<p><b>ELK-0650</b> 6 Volt, 5 Ah • 2.76" x 1.85" x 3.94" • .187" F-1 Faston Tab</p>  <p>7 62158 00640 1</p>	<p><b>ELK-0675</b> 6 Volt, 7.5 Ah • 5.90" x 1.34" x 3.90" • .187" F-1 Faston Tab</p>  <p>7 62158 00670 8</p>	<p><b>ELK-06120</b> 6 Volt, 12 Ah • 5.9" x 1.97" x 3.9" • .187" F-1 Faston Tab</p>  <p>7 62158 06120 2</p>
<p><b>ELK-1213</b> 12 Volt, 1.3 Ah • 3.82" x 1.77" x 2.24" • .187" F-1 Faston Tab</p>  <p>7 62158 01212 9</p>	<p><b>ELK-1233</b> 12 Volt, 3.3 Ah • 5.27" x 2.64" x 2.6" • .187" F-1 Faston Tab</p>  <p>7 62158 01233 4</p>	<p><b>ELK-1250</b> 12 Volt, 5 Ah • 3.5" x 2.75" x 4.17" • .187" F-1 Faston Tab</p>  <p>7 62158 01240 2</p>	<p><b>ELK-1280</b> 12 Volt, 8 Ah • 5.94" x 2.56" x 3.98" • .187" F-1 Faston Tab</p>  <p>7 62158 01270 9</p>
<p><b>ELK-12120</b> 12 Volt, 12 Ah • 5.94" x 3.9" x 3.94" • .187" F-1 Faston Tab</p>  <p>7 62158 12100 5</p>	<p><b>ELK-12180</b> 12 Volt, 18 Ah • 7.12" x 3" x 6.57" • B1-M5 bolt &amp; nut</p>  <p>7 62158 12170 8</p>	<p><b>ELK-12260</b> 12 Volt, 26 Ah • 6.53" x 6.89" x 4.96" • B1-M5 bolt &amp; nut</p>  <p>7 62158 12250 7</p>	

## Other Power Products



ELK-BLT



### Battery LifeTester™

A compact, easy to use service tool for testing 12 Volt rechargeable batteries. The BLT measures internal conductivity (Mhos), which is the best indicator of a battery's health and life expectancy. The BLT operates as follows: For each battery brand and size installed, start by measuring and recording a baseline Mhos reading. Then, during any service call or inspection, simply measure and record the current (most recent) Mhos reading. Always compare the current Mhos reading with the original reading. When the current Mhos reading has reached at or around 71% of the original baseline then it is time to consider replacing the battery.

- Compact, low cost, and easy to use
- 3 digit display
- Does not discharge or damage the battery
- Includes self-adhesive test data labels for recording battery readings
- Includes hard shell, protective carrying case
- Powered by the battery under test - warns when the battery voltage is too low for testing
- RoHS Compliant
- **Made in USA**
- Size 4.4" x 3" x 1.15"
- Coated clips to connect to battery
- **Lifetime Limited Warranty**

**Self-adhesive Test Data Labels, 100 Pack**  
ELK-BLT LABELS



ELK-965



### Low Battery Cutoff & Master Power Switch

Total power control for any 12V control panel or power supply. Disconnects battery if voltage falls below 10VDC as a result of extended AC power outage. Convenient On/Off switch for manual disconnect.

- Eliminates "run-away" panel headaches
- Automatic low battery cutoff protects battery from deep discharge
- Installer friendly - small compact size
- Includes AC wires & battery leads
- RoHS Compliant
- **Lifetime Limited Warranty**
- Works with most 12 Volt DC Control Panels or power supplies
- AC Power Leads: 18 AWG, 18" Length
- Maximum Transformer Size: 18 VAC
- Battery Leads: 18 AWG, 18" Length
- Low Battery Cutoff Voltage: ~10VDC
- **Made in USA**



**SAVE with 20 Piece Bulk Packs**  
ELK-965B20



**Master Power Switch Only, 20 Piece Bulk Pack**  
ELK-964B20



## Communication Accessories



ELK-800



### 10 Watt Audio Amplifier

This compact amplifier is ideal for telephone paging, PA, custom voice or alarm annunciation.

- No need for 25V or 70V Line Transformers
- Can drive multiple 8 Ohm speakers
- Requires only 22-24 gauge telco wire
- Built-in Volume Control
- Short circuit protection
- Output: 10 Watts
- Input Impedance: 1000 Ohms Nominal
- Speaker Load: 8 Ohm Nom., 2 Ohm Min.
- Color: Black
- Operating Voltage: 12 to 24 Volts AC or DC
- Current draw: 50 mA Nom., 800 mA Max.
- Size: 4.5" x 3" x 1.2"
- RoHS Compliant
- **Lifetime Limited Warranty**
- **Made in USA**



ELK-RJSET



### RJ31X Telco Jack & Cord

For use with Alarm System Communicators, Line Fault devices, or other equipment as a means of connecting to the incoming telephone line.

- USOC RJ31X 8 pin modular jack
- Built-in pass through shorting bars
- Gold plated connector pins
- Includes self adhesive foam mounting pad
- RoHS Compliant
- 2 foot, 8 conductor cord with modular plug on one end and spade terminals on the other
- FCC approved - UL listed as a Communication Circuit Accessory
- **Lifetime Limited Warranty**

# PREVENT DAMAGE TO COSTLY AND IMPORTANT EQUIPMENT WITH ELK SURGE SUPPRESSORS

Super fast response time • Economical and easy to install

## Surge Suppressors

Solid State Surge Suppressors for control systems connected to phone lines. All units feature a super fast response time of less than 1 nanosecond.

- Solid State clamping Line-to-Line and Line-to-Ground
- Self restores after surges within ratings
- RJ31/38X 8-Pin Modular Jack
- Color: Black
- Size: 4.4" x 3" x 1.1"
- **Made in USA**
- Telephone Breakover: 300 Volts
- Peak Pulse Current: 100 Amps
- Convenient Test Points For Lineman's Test Set
- RoHS Compliant
- Lifetime Limited Warranty



ELK-950

### ELK-950 Single Telephone Line & Low Voltage Surge Suppressor

- Protects 1 Incoming Phone Line and AC Input from Transformer
- Max AC Input Voltage: 24 VAC
- AC Breakover: 50 Volts



### ELK-951 Single Telephone Line Surge Suppressor

- Protects 1 Incoming Phone Line



### ELK-955 Dual Telephone Line Surge Suppressor

- Protects 2 Incoming Phone Lines



ELK-952



### In-Line Telephone Surge Protector

The ELK-952 provides exceptional protection against damage from lightning, voltage spikes, and surge damage coming into a phone line. It installs between the RJ31X Phone Jack and the Security Control. The ELK-952 features multi-stage protection and is 5 times faster than MOVs.

- 5 stage surge protection
- Very economical
- Easy to install
- Works with any security control
- RoHS Compliant
- Response Time: < 1 Nanosecond
- Max. Signal Voltage: 250V (peak)
- Breakdown Voltage: 280V (nominal)
- Max 'Peak' Pulse Current: 100 Amps
- 1 year limited warranty

# Universal Accessories

## B CONNECTORS

For solid, dependable splicing of 22 to 26 gauge wires.

- Easy to squeeze soft metal crimp
- Built-in test point
- Insulation piercing internal teeth
- Durable protective outer covering
- 2 handy zip lock bags of 250 pcs each
- 500 pcs per box
- Packaged in reusable poly storage box
- UL listed
- RoHS Compliant



### A. ELK-9002 Yellow Unfilled "B" Connectors

- Yellow color indicates unfilled



### B. ELK-9022 White Gel Filled "B" Connectors

- Non-hardening gel moisture barrier forms corrosion resistant splice
- White color indicates gel filled
- No markings on jacket



## DOUBLE SIDED FOAM MOUNTING TAPE

Use in place of mechanical fasteners to mount relays, siren drivers, and many other devices to various surfaces. It is flexible and conforms to irregular surfaces.

- Permanent Rubber Adhesive
- Packaged in Reusable Poly Storage Box
- Individual Piece Size: 1/2" x 1- 1/2"
- RoHS Compliant

### ELK-999 1/4" Thickness

- 130 Individual Pieces
- Thickness: 1/4"



### ELK-999A Assorted Thickness

- 156 Individual Pieces
- Thickness: 1/16", 1/8", 1/4"  
(52 pieces of each)



## OTHER ACCESSORIES



### ELK-PB1 Project Box

General purpose, paintable box for housing wire splices, relay modules, etc.

- Mounts to a single gang electrical box
- Mounting hardware included
- Removable wire entry tabs work with panduit surface raceway conduit
- Color: White
- Size: 6.5"W x 4.3"H x 2"D
- RoHS Compliant



### ELK-UB12 Utility Box for Power Supplies, etc

Multi-purpose box works well for power supplies and other peripherals.

- Can be used to house "special projects"
- Hinged cover with camlock
- RoHS Compliant
- Color: White
- Size: 12" x 12" x 3.5"
- Included in some M1E28 Control kits



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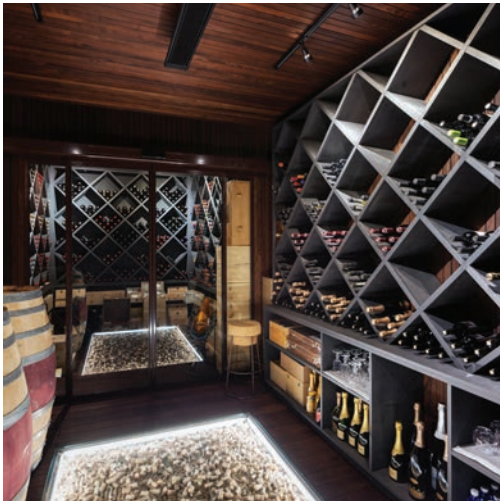
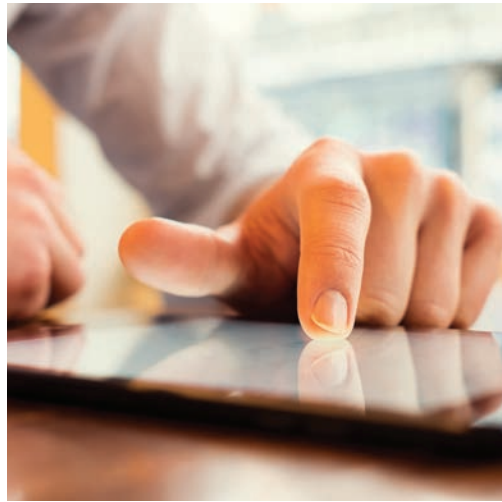
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