

* Try these other fine ELK products *

Magic Module Series

- MM443** Magic Module, 4 Input, 4 Output, Programmable
- MM447** Automation Controller w/Voice, Caddx Interface
- MV480** Recordable Voice Module, 400 Channels
- MKHOME1** Home Control Kit for Caddx NX Controls
- MK400** Starter Kit, Includes MM443 & MK485
- MK485** Programming Kit, MB485, Cables, Software
- MK410** X-10® Transceiver Kit, Programmed MM443
- MK420** iButton™ Access Kit w/ MM443, MA100, MA101
- MA100** iButton™ 'Touchkey' Reader & Interface Pack
- MA101** iButton™ 'Touchkeys', 10 pcs w/keyring holders
- MA290** Proximity / Wiegand Data Interface to MM443
- MB485** Data Bus Interface, RS232 to RS485
- MC100** Clock / Calendar Module for MM443
- ML8** Link Interface to Caddx NX Controls
- MT100** Temperature Sensor Module for MM443
- MM220** Magic Module, 2 Input, 2 Output, Programmable

Rust Free Sirens / Speakers

- 1RT** Speaker & Stainless Steel Enclosure
- 150RT** Siren & Stainless Steel Enclosure
- 155RT** Voice Siren in Stainless Steel Box

Speakers & Sirens

- 44** Speaker, 30 W, 8 Ohm Compact Horn
- 45** Siren, Compact Horn, 118db
- 55** Voice Siren, Compact Horn
- M120** Siren, Single Tone, 107db, Mini Horn
- SP15** Speaker, 15 watt, Small Horn
- SP30** Speaker, 30 watt, Horn
- SP35** Speaker, 20 watt, Interior
- SP40** Speaker, 40 watt, Horn
- SS15** Siren, Dual Tone, 110db, Horn
- SS30** Siren, Dual Tone, 120db, Horn
- SS36** Siren, Dual Tone, 105db, Interior

ECHO™ Sirens & Speakers

- 73** ECHO Speaker, 20 Watt, Interior
- 74** ECHO Dual Tone Siren, Interior
- 75** ECHO Voice Siren, Interior
- 870** ECHO Speaker, Self Amplified

Siren & Voice Drivers

- 100** High Performance Siren Driver
- 110** Voice Siren Driver, English & Spanish
- 120** Recordable Voice Module and Siren
- 124** Recordable Voice Module, 4 Channels

Surge Suppressors

- 950** Surge Suppressor, Phone & Power Line
- 951** Surge Suppressor, Phone - Single Line
- 955** Surge Suppressor, Phone - Dual Line

Relay Modules

- 912** Compact Relay, 12 Vdc, SPDT
- 912B** Heavy Duty Compact Relay, 12/24 Vdc, SPDT
- 924** Sensitive Relay, 12/24 Vdc, DPDT
- 941** Alarm Output Director
- 960** Delay Timer Relay, 1 sec. to 60 min.

Power Products

- 1240** Battery, Lead Acid, 12v, 5Ah
- 1270** Battery, Lead Acid, 12v, 8Ah
- 12100** Battery, Lead Acid, 12v, 12Ah
- 12170** Battery, Lead Acid, 12v, 18Ah
- 12250** Battery, Lead Acid, 12v, 25Ah
- P112** 12 Volts DC, 1 Amp Power Supply w/Enclosure
- P124** 24 Volts DC, 800mA Power Supply w/Enclosure
- P1216** 12 Volts DC, 1.5 Amp Power Supply
- P412** 12 Volts DC, 4 Amp Power Supply
- P624** Power Supply & Battery Charger
- PD9** Power Distribution Module
- 965** Low Battery Cutoff and Power Switch
- TRG1640** Transformer, 16.5VAC @ 40 VA
- TRG2440** Transformer, 24VAC @ 40 VA

Accessories

- 129** Computer Sound Card Interface
- 800** Audio Amplifier, 10 Watts
- 900-2** "B" Connectors, Unfilled, 500 pcs
- 902-2** "B" Connectors, Gel filled, 500 pcs
- 980** Telephone Line Fault Monitor
- 998** Warning Alarm System Decals
- 999** Double Sided Tape
- SL1** Strobe Light, 4 colors available
- WK1** Wall Mount Kit for SL1 Strobes

For more information contact your local Distributor or:
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<http://www.elkproducts.com> Email: info@elkproducts.com
05/02

Siren Driver

ELK-100

Two Channel- High Performance

APPLICATION:

The **ELK-100** Siren Driver is a great choice for residential and commercial security installations. It draws less current than many siren drivers, and offers two volume levels (one indoor, the other outdoor) simultaneously. The ELK-100 has two inputs, Yelp & Steady.



Siren Driver

ELK-100



Two Channel - High Performance

FEATURES:

- Two Volume Levels Simultaneously.
- Draws Less Current Than Most Sirens.
- Loud Attention Getting Sound.
- **ComboTrigger™** option for controls that have a single alarm output with a pulsing option for fire or burglary. When pulsed, this channel produces a distinctive third sound pattern.
- **MilliMiser™** option allows further reduction of current draw for controls that have limited alarm or auxiliary output.
- Lifetime Limited Warranty.
- Packed In Reusable Poly Storage Box.

SPECIFICATIONS:

- Operating Voltage: 6 - 14 Volts D.C.
- Sound Level: 122 db @ 1 meter.
- Sounds: Steady, Yelp, & Slow Sweep Steady Overrides Yelp.
- Nominal Current Drain: 1.2 Amps.
- **MilliMiser™** Current Drain 800 mA.
- Maximum Speaker Loading: 4 Ohms.
- Size: 2.75" X 3.6" (70mm X 91mm).

Features or Specifications subject to change without notice.



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Instructions Printed On Inside

SPEAKER HOOKUP

The ELK-100 has 3 speaker terminals. Terminal HIGH is for high volume (max. current draw), LOW is for low volume (min. current draw), and SPKR is a common terminal. The unique benefits of having 3 terminals are:

1. Two volume levels can be obtained simultaneously from two speakers (ie: one indoor, the other outdoor).
2. Current draw can be minimized (**MilliMiser™**) by connecting speaker(s) to terminals SPKR & LOW only.
3. Maximum volume can be obtained by connecting speaker(s) to terminals SPKR & HIGH only.
4. Low wattage speakers (10 to 15 watts) may be connected to SPKR & LOW with no danger of burnout.

Speakers 8 Ohm Nom.	Connection of 2 or more Speakers (series, parallel)	Total Load	Avg. current draw using Terminals SPKR & HIGH	Avg. current draw using Terminals SPKR & LOW
1	---	8 Ohms	1.2 Amps	800 mA
2	Parallel	4 Ohms	2.1 Amps	1.5 Amps
2	Series	16 Ohms	700 mA	600 mA
3	2 Series, 1 Parallel	6 Ohms	1.7 Amps	1.2 Amps

TABLE 1. ELK-100 SPEAKER LOADING & CURRENT DRAW

NOTE: While normal resistance for a single alarm speaker is 6.5 to 8 Ohms, total resistance (or load) changes when multiple speakers are wired together in series or parallel. Total resistance should never be less than 4 Ohms on either the SPKR & LOW or the SPKR & HIGH terminal connections. Refer to Table 1 and the diagrams below for wiring multiple 8 Ohm speakers in parallel or series to maintain a load between 4 and 16 Ohms.

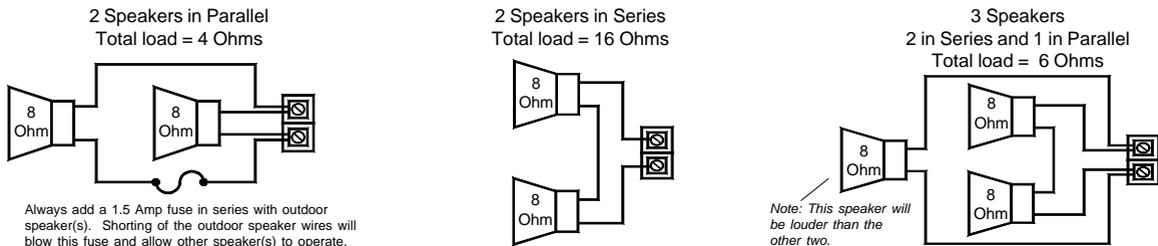
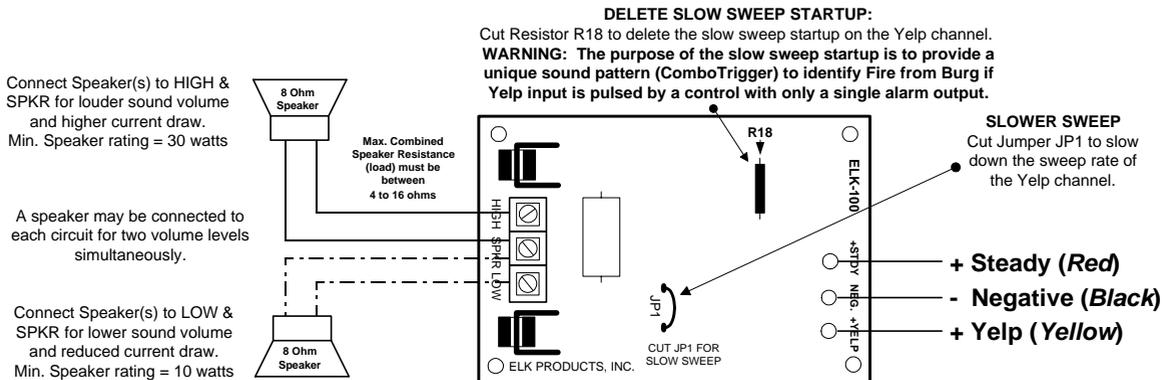
MilliMiser™ Connecting the speaker(s) to the LOW and SPKR terminals allows current draw to be reduced by approximately 25% with only 6 to 8% less sound.

VOLTAGE INPUTS

Connect the 3 terminals on the ELK-100 to the control panel alarm output as follows:

- +STDY (Red) = Steady Channel generally connected to the alarm output terminal for Fire.
- NEG. (Black) = Common Negative (-)
- +YELP (Yellow) = Yelp Channel generally connected to the alarm output terminal for Burglary.

ComboTrigger™ For controls with only a single alarm output, connect the NEG and +YELP to the alarm output and program the control to pulse the output (if available) for Fire. Pulsing the +YELP input on/off at a 1 sec. duty cycle produces a unique slow sweep sound which draws attention and helps identify Fire from Burg.



LIFETIME LIMITED WARRANTY

Elk Products, Inc. ("Manufacturer") warrants to the original purchaser (the "Customer") that the products it manufactures ("Product") shall be free from defects in material and workmanship at time of shipment. Manufacturer's obligations under this Limited Warranty shall be limited to repairing or replacing, at its option, free of charge, any product returned to Manufacturer freight prepaid. Manufacturer shall have no obligation under this Limited Warranty or otherwise if (1) the Product has been damaged by negligence, accident, mishandling, lightning or flood, or other Acts of God, (2) the Product has not been operated in accordance with its operating instructions, (3) the Product has been altered or repaired by anyone outside Manufacturer's authorized facilities (4) adaptations or accessories have been made or attached to the Product which, in Manufacturer's sole determination, have adversely affected its performance, safety or reliability. Products such as batteries and fused transformers have their own warranties, and are not included in this Limited Warranty.

If a Product should malfunction or fail, contact Manufacturer or one of its authorized distributors for a Return Authorization (RA) number. Returned Products must include a complete description of the problem, along with the RA number clearly marked on outside of the package. Manufacturer will not be responsible for any unnecessary items included with any returned Product.

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