

*** 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 for 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:
ELK PRODUCTS, INC 828-397-4200 FAX 828-397-4415
<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.



828-397-4200 Voice
828-397-4415 Fax
<http://www.elkproducts.com>
 email: info@elkproducts.com
 PO Box 100 • Hwy. 70W • Hildebran, NC 28637 • USA

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

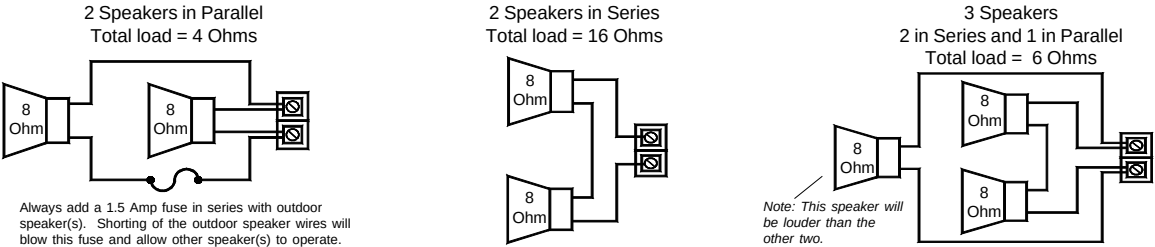
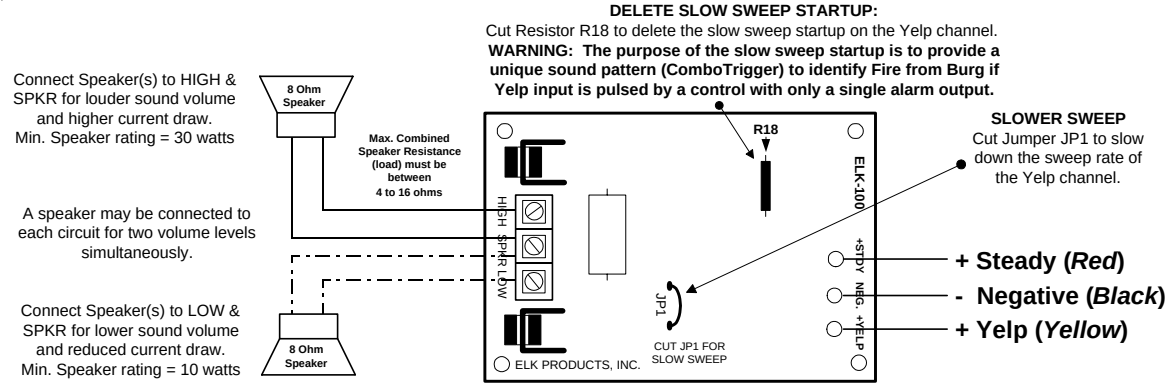
NOTE: While normal resistance for a single alarm speaker is 6.5 to 8 Ohms, total resistance (or load) changes when multiple speakers are wired together in series or parallel. Total resistance should never be less than 4 Ohms on either the SPKR & LOW or the SPKR & HIGH terminal connections. Refer to Table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

THIS WARRANTY IS THE EXCLUSIVE WARRANTY FOR ANY PRODUCT. MANUFACTURER SPECIFICALLY DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. MANUFACTURER SHALL NOT BE LIABLE IN TORT, INCLUDING NEGLIGENCE OR STRICT LIABILITY, AND SHALL HAVE NO LIABILITY AT ALL FOR INJURY TO PERSONS OR PROPERTY. MANUFACTURER'S LIABILITY FOR FAILURE TO FULFILL ITS OBLIGATION UNDER THIS LIMITED WARRANTY OR ANY OTHER LIABILITY IN CONNECTION WITH A PRODUCT SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE RECEIVED BY MANUFACTURER FOR THE PRODUCT. THE REMEDIES STATED IN THIS LIMITED WARRANTY ARE THE CUSTOMER'S EXCLUSIVE REMEDIES AGAINST MANUFACTURER REGARDING ANY PRODUCT. UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS AND REVENUES, INCONVENIENCE OR INTERRUPTIONS IN OPERATIONS, OR ANY OTHER COMMERCIAL OR ECONOMIC LOSSES OF ANY KIND. THESE LIMITATIONS AND DISCLAIMERS ARE NOT MADE BY MANUFACTURER WHERE PROHIBITED BY LAW. SOME STATES PROHIBIT LIMITATIONS OF WARRANTIES AND THE CUSTOMER MAY HAVE ADDITIONAL RIGHTS IN THOSE STATES.

For more information contact your local Distributor or: ELK Products, Inc. - PO Box 100 - 3266 US Hwy. 70 West - Hildebran, NC, - 28637 - USA - (828) 397-4200