

* 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:
 ELK PRODUCTS, INC 828-397-4200 FAX 828-397-4415
<http://www.elkproducts.com> Email: info@elkproducts.com
 05/02

Magic Module Series

**iButton™ 'Touchkey'
 Reader & Interface Pack
 ELK-MA100**

Contains two accessory components that allow the ELK Magic Module(ELK-MM443(S)) to read iButton™ 'Touchkeys' from Dallas Semiconductor. Applications include: high security access control, simple on/off switching, password authentication, etc. The small "dime sized" iButton is a rugged memory device containing a uniquely readable "non-repeating" serial number.



Magic Module Series

**ELK-MA100
 iButton™ 'Touchkey'
 Reader & Interface Pack**



Accessory for the ELK Magic Module(ELK-MM443(S))

FEATURES:

- Interface(ELK-MA190) with 6 ft. Modular Cord.
- Reader Probe(ELK-MA110), Two-Wire, with Stainless Steel 2" x 4" Wall Mount Plate.
- Probe Can Be Up To 650' From Reader.
- Overvoltage protection on Data Lines.
- Lifetime Limited Warranty, call for details

SPECIFICATIONS:

- Interface Size: 2.4" X 2.4" (60mm x 60mm).
- Current Draw:10mA (supplied by ELK-MM443).

REQUIRED EQUIPMENT: (not included)

- ELK Magic Module(ELK-MM443(S)).
- iButton™ 'TouchKeys'(ELK-MA101).

Also available as a pre-programmed access controller kit (ELK-MK420) w/ 10 iButtons.

Features and Specifications subject to change without notice.

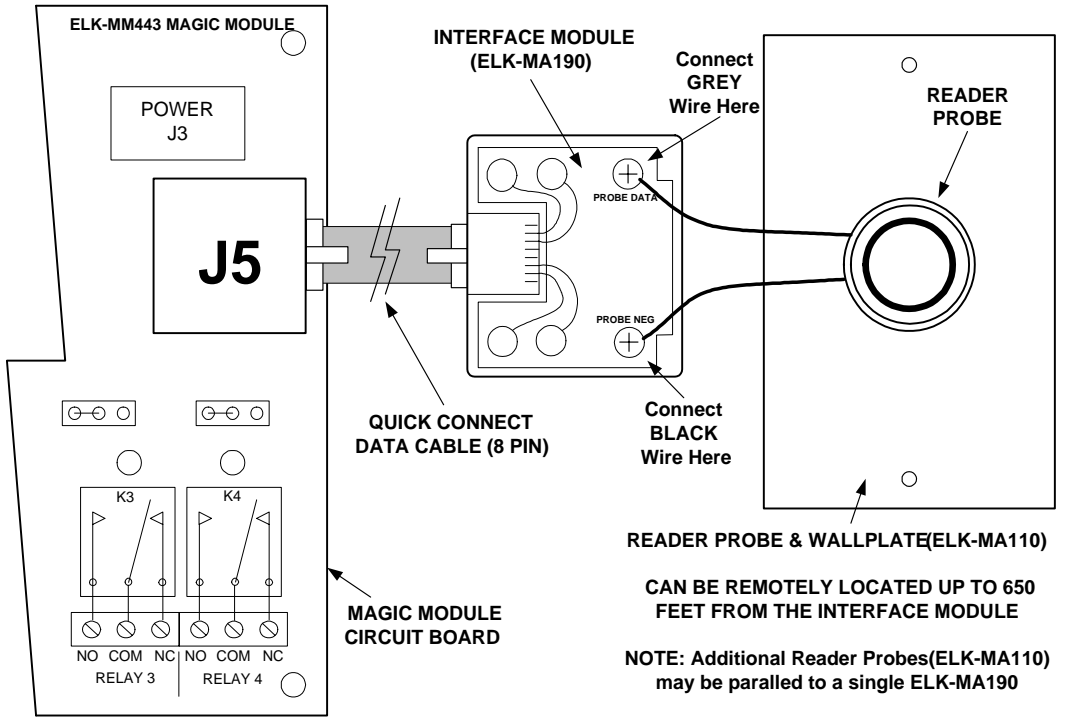
Dallas iButton is a trademark of Dallas Semiconductor Corp.



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Instructions Printed On Inside

Hook-Up Diagram: iButton™ 'Touchkey' Reader to ELK-MM443



Reader Probe & Interface Module Hook-Up

1. Place the nylon washer between the round reader probe and the wall plate.
2. Mount the round reader probe into the wall plate, secure with the retaining ring.
3. Mount the Interface(ELK-MA190) near the ELK Magic Module(ELK-MM443) that will be used for this application.
4. Remove the plastic cover from the Interface.
5. Run a 2 wire cable from the reader probe location to the Interface location.
6. Connect the reader probe's **GREY** wire to the "**PROBE DATA**" terminal.
7. Connect the reader probe's **BLACK** wire to the "**PROBE NEG**" terminal.
(the data probe's 2 wire length can be extended up to 650 feet with 22 gauge twisted wire)
8. Connect the Quick Connect Data Cable from the J5 connector on the Magic Module to the Data Interface jack.
(**Note:** an X-10 power line interface module can not be connected to the Magic Module when using an ELK-MA190)
9. Replace the plastic cover on the Interface.
10. When properly programmed and power applied, the unique serial number in the Dallas iButton can be read by the Magic Module just by touching the metal part of the key to the reader probe.
11. Each Magic Module with the original 256 bytes of program memory space will hold approximately 20 to 30 iButtons. Additional iButtons may be programmed into another Magic Module connected to the data bus. The Magic Module with 4k bytes of memory will hold approximately 512 iButtons.