

* 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

Magic Module Series

Clock/Calendar Module

ELK-MC100

APPLICATION:

The Clock/Calendar is an accessory for the Magic Module programmable controller series. It can be used in a vast array of Clock & Calendar applications requiring Minute, Hour, Day, Week-day, and Monthly timing. It also provides an on-board connection for the Temperature Sensor Module(ELK-MT100) (optional).



Magic Module Series

ELK-MC100



Clock/Calendar Module

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Accessory for the ELK Magic Module

FEATURES:

- Adds Clock & Calendar Functions to the ELK Magic Module(ELK-MM443(S)).
- Plugs into Accessory Connector(J1).
- Battery Back-Up Included.
- Daylight-Savings Time Program Option.
- Automatic Leap Year Adjustment.
- Lifetime Limited Warranty, call for details.
- On-board Connection for Temperature Sensor Module(ELK-MT100) (optional).

SPECIFICATIONS:

- Size: 2.2" x 1.5" (60mm x 38mm).
- Operating Voltage: 9.6-15 Volts D.C.
- Current Required: 200uA.
- Battery: 3 Volt Lithium (CR2032).

REQUIRED EQUIPMENT: (not included)

- ELK-MM443 Module, 4 input, 4 output.
- Programming Software to set the clock.

Features and Specifications subject to change without notice.



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Instructions Printed On Inside

MAGIC CLOCK / CALENDAR INSTRUCTIONS

The ELK-MC100 adds Clock and Calendar functions to the Magic Module(ELK-MM443) programmable controller. This board plugs into the Magic Module Accessory Connector (J1). The 4 screw terminals on the Clock allow for connection to an optional Temperature Sensor(ELK-MT100) which connects via a 4 conductor cable. Refer to the Temperature Sensor Instructions for more information. Figure 1 shows the Clock plugged into a Magic Module circuit board.

Installation

Insert the flanged end of the nylon standoffs (supplied) into the holes opposite the connector and on the bottom side of the Clock circuit board. Plug the circuit board into the white 5-pin Accessory Connector (J1) on the Magic Module as shown in figure1. Snap in the standoffs to secure the board. Remove the paper on the battery. NOTE: Before use, the Time and Date must be set in the Clock by using the Magic Module Software Program. Refer to the Magic Module Development Kit for programming instructions.

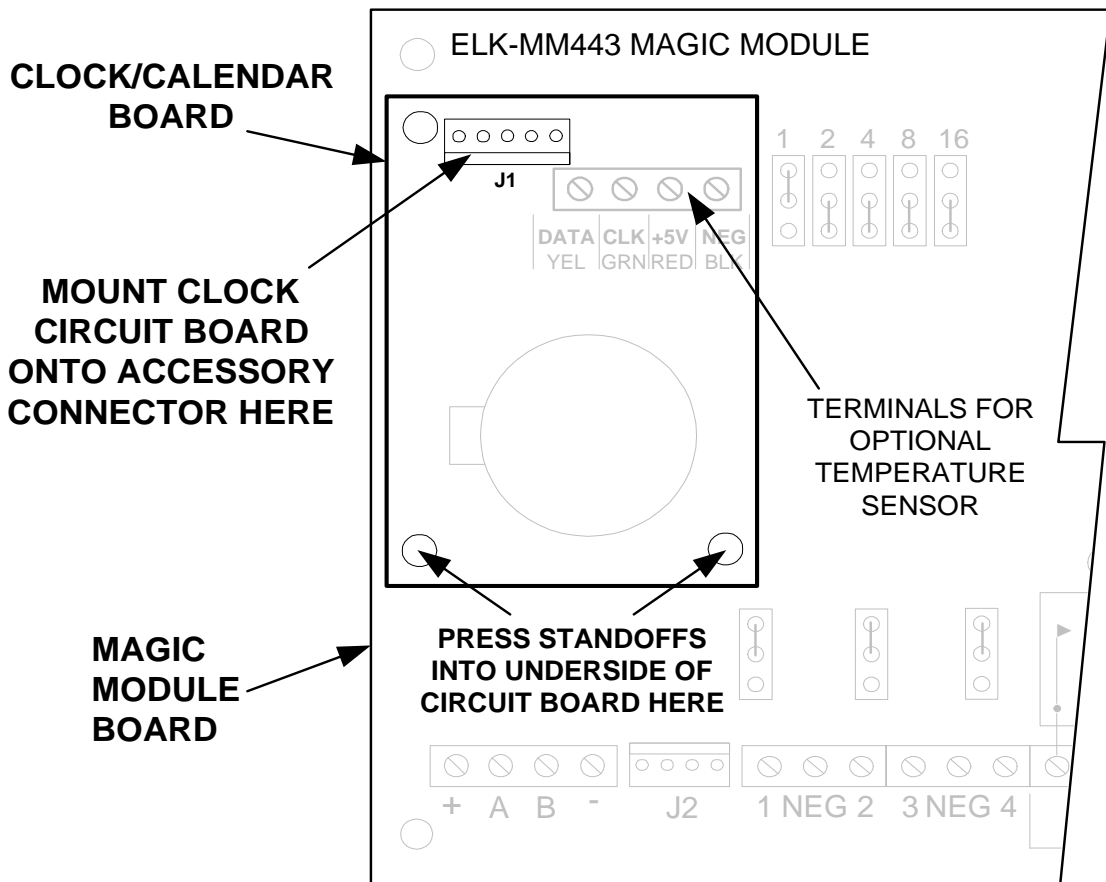


Figure 1. Clock/Calendar mounted on a Magic Module

Sample Real Time Clock Program for the Magic Module

This program will turn relay 1 on for 2 seconds at 8,12, and 5 o'clock PM

```

set      EvtTMR1  Tmr1Evt
set      EvtRTC   RTCStart
main    goto     main
;Main Program
Tmr1Evt set      OUT1    Off
return
;Timer1 Event (turns relay 1 off after 2 seconds)
;return from timer 1 event
RTCStart if      Rhrs not= 8    RTCEvt1  ;Hour-RTC (turn relay 1 on for 2 secs if 8 o'clock)
if      Rmin not= 0    RTCEvt1  ;Minute-Real Time Clock
goto    RingBell
RTCEvt1 if      Rhrs not= 12   RTCEvt2  ;Hour-RTC (turn relay 1 on for 2secs if 12 o'clock)
if      Rmin not= 0    RTCEvt2  ;Minute-Real Time Clock
goto    RingBell
RTCEvt2 if      Rhrs not= 17   RTCEvt3  ;Hour- RTC (turn relay 1 on for 2secs if 5 o'clock)
if      Rmin not= 0    RTCEvt3  ;Minute-Real Time Clock
RingBell set      T1SEC    2
set      OUT1    On
RTCEvt3 return
; (set timer 1 for 2 seconds; on time for relay 1)
; (turns relay 1 on) connect this relay to a horn
;RTCEnd
    
```