

**NEMTEK**  
www.nemtek.com



# Merlin 4

Electric Fence Energizer

## User Manual



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# Introduction & company profile

## INTRODUCTION

Thank you for choosing our product! The NEMTEK Merlin 4 Electric Fence Energizer is designed and manufactured to provide many years of reliable use, if installed and maintained correctly. The guidelines provided in this manual will assist you with the basic operation and maintenance of your Merlin 4.

Currently this product is designed and manufactured in South Africa for the South African and international markets. More information on our products and general information are available on our web site at: <http://www.nemtek.com>.

## COMPANY PROFILE

The NEMTEK Group of Companies manufacture and distribute intelligent electronic agricultural fencing systems, security and perimeter control systems and have been involved in the security industry since 1990.

We have our own research and development team, designing and manufacturing a full range of globally competitive electric fence energizers and related products.

NEMTEK is continually updating its products according to South African and international standards in order to ensure the highest quality products and continuous customer satisfaction.

### **GUARANTEE**

The Merlin 4 Electric Fence Energizer, manufactured by NEMTEK, is guaranteed for a period of two years from date of sale against defects due to faulty workmanship or materials.

NEMTEK will, at its discretion, either repair or replace a product that proves to be defective.

NEMTEK guarantees that the product, when properly installed and used in line with the specification as determined by NEMTEK from time to time, will execute its function of generating a suitable potential. NEMTEK does not guarantee that the operation of the product will be uninterrupted and totally error free. Faulty units must be returned to one of the NEMTEK Group outlets. The buyer shall pay all shipping and other charges for the return of the product to NEMTEK or NEMTEK Security Warehouse.

### **LIMITATION OF GUARANTEE**

The guarantee does not apply to defects resulting from acts of God, modifications made by the buyer or any third party, misuse, neglect, abuse, accident and mishandling.

### **EXCLUSIVE REMEDIES**

The remedies provided herein are NEMTEK's sole liability and the buyer's sole and exclusive remedies for breach of guarantee. NEMTEK shall not be liable for any special, incidental, consequential, direct or indirect damages, whether based on contract, tort, or any other legal theory. The foregoing guarantee is in lieu of any and all other guarantees, whether expressed, implied, or statutory, including but not limited to warranties of merchantability and suitability for a particular purpose.

## NEMTEK Group outlets

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Cape Town, South Africa

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Manufactured in South Africa

## Using your key pad

### SWITCH THE FENCE ON/OFF



To switch the fence **On** or **Off**, enter your four digit PIN followed by the **#** key.  
If the red **ON** light is lit or flashing, the fence is energized.

- Don't pause for more than 5 seconds while entering the digits, or the control panel will reject your PIN number.
- If you make a mistake while entering your PIN, press the **#** key and start again.
- The default master (User # 1) PIN is **1 2 3 4**.  
The default user (User # 2) PIN is **5 5 5 5**.

### AFTER AN ALARM OCCURS



Enter your PIN and press the **#** key. This will silence the buzzer and siren.  
It will switch the fence off. One of the **ALARM** lights will flash or stay lit to indicate the source of the alarm. A flashing indicator illustrates that the fault condition persists.  
A permanently lit indicator notifies the user that the fault no longer exists.

### CHANGE THE VOLTAGE ON THE FENCE



Enter your PIN and press the **\*** key, enter the digit **3**, then press the **#** key.  
When the fence is on and in low voltage mode, the red **ON** light will flash.  
The red **ON** light will stay permanently lit if the fence is in high voltage mode.  
Use the low voltage mode when children are in the fence vicinity.

### BYPASS THE FENCE ALARM



Enter your PIN and press the **\*** key, enter the digit **1**, then press the **#** key.  
The **FENCE ALARM** light will start flashing slowly to confirm the fence alarm is bypassed.  
To cancel the bypass, repeat the same sequence of keys.

## Using your key pad

### **BYPASS THE SIREN AND STROBE LIGHT (SILENT ALARM)**



Enter your PIN and press the \* key, enter the digit **4**, then press the # key. The beeper in the control panel and energizer will still be active.

### **UN-BYPASS THE SIREN AND STROBE LIGHT**



Enter your PIN and press the \* key, enter the digit **7**, then press the # key.

### **MAKE THE GATE ALARM IMMEDIATE**



Enter your PIN and press the \* key, enter the digit **2**, followed by the digit **7**, then press the # key. The **GATE ALARM** light will start flashing, with a cadence of one flash every 5 seconds, to confirm the gate alarm is immediate.

### **MAKE THE GATE ALARM DELAYED**



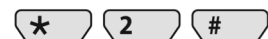
Enter your PIN and press the \* key, enter the digit **2**, followed by the digit **4**, then press the # key. The default gate delay is 4 minutes.

### **BYPASS THE GATE ALARM**



Enter your PIN and press the \* key, enter the digit **2**, then press the # key. The **GATE ALARM** light will start flashing slowly to confirm that the gate alarm is bypassed. To cancel the bypass, repeat the same sequence of keys.

### **TURN THE GATE CHIME ON/OFF**



Press the \* key, enter the digit **2**, then press the # key. The control panel will beep twice to confirm that the gate chime is turned off and three times if it's turned on. If the chime is on, the control panel will beep once if the gate closes and three times if it opens.

## Using your key pad

### BYPASS THE SERVICE ALARM



Enter your PIN and press the \* key, enter the digit **9**, then press the # key.

The **SERVICE ALARM** light will start flashing slowly to confirm that the service alarm is bypassed. To cancel the bypass, repeat the same sequence of keys.

### CHANGING A USER PIN

**Master PIN**



**User (1-2)**



**New PIN**



**New PIN**



Enter your master PIN, press the \* key, enter the digit **0**, then press the # key.

Enter the user number (**1-2**), and push the # key. User number 1 is the master PIN. Enter that user's new PIN and press the # key. Enter the new PIN again and press the # key. If the new PIN is accepted, the control panel will beep twice. If you make a mistake while programming, or if the system rejects the new PIN, the control panel will beep three times. The default master user PIN is **1 2 3 4**. Check the new PIN. If not accepted, the previous PIN will remain valid.

### KEY DEFINITIONS:

Four digit Personal Identification Number (PIN)



### NOTES:

- The Master User (i.e. User #1) can bypass alarm conditions.
- The Normal User (i.e. User #2) can only turn the energizer on/off.
- The installer may alter certain energizer parameters such as voltages and delay times.



## What the lights indicate

<b>Condition:</b>	<b>Power Light</b>	<b>Good Light</b>	<b>On Light</b>	<b>Fence Light</b>	<b>Gate Light</b>	<b>Service Light</b>	<b>Remarks</b>
FENCE GOOD	ON	SLOW FLASH	ON	OFF	OFF	OFF	Fence on, working properly
FENCE OFF	ON	OFF	OFF	OFF	OFF	OFF	Fence off, working properly
MAINS FAILURE	OFF						System on battery power
BATTERY LOW			ON			PULSE (5 SEC)	Check mains, call for service
BATTERY FLAT						FAST FLASH	Check mains, call for service
FENCE ALARM		OFF		FAST FLASH			Problem on fence
FENCE LV MODE			SLOW FLASH				Fence in low voltage mode
FENCE BYPASS				SLOW FLASH			Fence alarm switched off
GATE OPEN					FAST FLASH		Gate is open
GATE BYPASS					SLOW FLASH		Gate alarm switched off
INSTANT GATE					PULSE (5 SEC)		Instant gate alarm
SERVICE ALARM						FAST FLASH	Call for service
SERVICE BYPASS						SLOW FLASH	Service alarm switched off
ALARM MEMORY				(ON)	(ON)	(ON)	Old alarm. Turn off/on

## IEC Safety Information

- There are no user serviceable parts inside the energizer.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similar qualified persons in order to avoid a hazard.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Electric fencing can be lethal. Avoid head contact with the fence. Ask the installer to explain the options of current limiting resistors, the programmable output energy levels as well as the low-voltage operation of the energizer.

**E-MER4: Rev 1.0**

**E-MER4: Rev 1.1 7 June 2015**