

**NEMTEK**  
www.nemtek.com



# WIZORD

Electric Fence Energizer

## User Manual



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# Introduction & Company Profile

## INTRODUCTION

Thank you for choosing our product! NEMTEK Electric Fence Energizers are 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 WIZORD.

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

## COMPANY PROFILE

The NEMTEK Group of Companies manufacture and distribute intelligent electronic 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 WIZORD energizer, manufactured by IO Tech Manufacturing (Pty) Ltd, is guaranteed for a period of two year from date of sale against defects due to faulty workmanship or materials.

IO Tech Manufacturing (Pty) Ltd will, at its discretion, either repair or replace a product that proves to be defective.

IO Tech Manufacturing (Pty) Ltd 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

## **HEAD OFFICE**

Tel: +27 (0)11 462 8283

Fax: +27 (0)11 462 7132

Northriding Commercial Park  
Stand 251, Aintree Street, Northriding  
Randburg, South Africa

## **EXPORTS**

Tel: +27 (0)11 462 8283

Fax: +27 (0)11 462 7132

exports@nemtek.com

## **EDENVALE**

Tel: +27 (0)11 453 1970

Fax: +27 (0)11 453 1858

Unit 4, Meadowdale Park  
Cnr. Dick Kemp & Herman Roads  
Meadowdale, Edenvale, South Africa

## **CAPE TOWN**

Tel: +27 (0)21 386-3742

Fax: +27 (0)21 386-5573

27B Concord Crescent, Airport City  
Cape Town, South Africa

## **NELSPRUIT**

Tel: +27 (0)13 752-2187

Fax: +27 (0)13 752-2188

Waterval Ave, Riverside Industrial  
Nelspruit, South Africa

## **KWAZULU-NATAL**

Tel: +27 (0)31 701-2125

Fax: +27 (0)31 701-2125

19 Henwood Road  
Pinetown, South Africa

## **AUSTRALIA**

Tel: (08) 9303 9855

Email: nemtek@bigpond.net.au

Unit 5, 19 Innovation Circuit,  
Wangara, 6065, Perth, WA, Australia

Website: [www.nemtek.com](http://www.nemtek.com)

E-mail: [nemtek@nemtek.com](mailto:nemtek@nemtek.com)

Manufactured in South Africa

# Standard Operating Procedure

## **TURNING YOUR UNIT ON / OFF:**

In the default state, the energizer can be turned on or off by holding the plastic tab over the corresponding logo on the fascia of the unit. The unit will beep once when turned on and twice when turned off.

## **FENCE STATUS INDICATION:**

The unit will indicate that a condition is currently active (fence fault, gate open, or service condition) if the corresponding LED is flashing; e.g. if the fence LED is flashing, the fence voltage is currently not satisfactory. If the fence alarm indication LED is lit continuously, there was a fence alarm condition previously but the fence voltage is now satisfactory. Similarly, if the gate alarm indication LED is lit permanently, the gate opening time exceeded the entry delay period but is now closed. If the gate indication LED is flashing, the gate is still open.

If the mains supply is present the power LED is lit and it will go out with a mains failure. The On LED will be lit when the unit is switched on and it will be off when it is switched off. The On LED will flash when the unit is switched to the Low Voltage Mode.

## **ALARM INDICATION:**

The fence and gate inputs are configured to trigger external alarms and the internal buzzer. The service condition will activate the buzzer only. Be aware that, should there be a prolonged power failure, the battery may run low and cause the service light to flash. If the mains interruption is sufficiently long, the unit will shut down and there will be no indication of mains failure.

## **RESETTING THE ALARM:**

Switch the unit off with the Nemtek tab or remote key-switch. This will silence the siren (if it has not already timed-out), internal buzzer and will switch the strobe off. One of the alarm lights will be flashing or will remain lit to indicate the source of the alarm. A permanently lit indicator notifies the user that the fault no longer exists. In the latter case simply turning the energizer On again will clear the memory condition. A flashing alarm light illustrates that the fault condition persists. In this case rectify the condition which caused the alarm. To reset and clear the memory condition turn the energizer On and Off and On again. Only if the alarm condition is resolved will the energizer operate without alarm activation.

# Standard Operating Procedure

## **BUZZER:**

The buzzer has a different cadence for the fence alarm and gate alarm.

## **SERVICE INDICATION:**

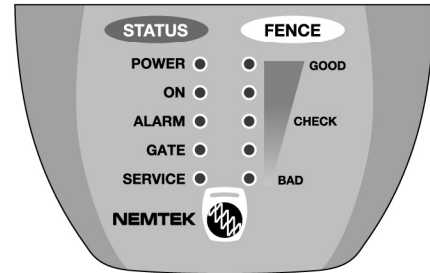
The service indicator should remain off during normal operation. If it is lit due to an obvious condition, such as prolonged mains failure, simply turn the unit off and on again. Should the condition persist, refer to your installer. The unit has built-in diagnostics to assist the installer.

## **Standard Operating Procedure - Notes:**

1. The energizer will, under normal conditions, provide the fence with a pulse at the rated energy level. Should a mains failure occur, the energizer will automatically switch to a reduced energy level. This enables the unit to operate without mains for extended periods of time (i.e. with a good battery the unit should be able to operate for approximately twenty four hours). Batteries should be checked on a bi-annual basis.
2. A functional energizer will only turn itself off after prolonged mains failure.
3. There are no "user-serviceable" parts within the energizer. Please refer all problems to qualified service personnel.
4. It is possible that, under mains failure conditions, the energizer will operate at reduced energy levels and the fence status display will not be fully lit. The mains should be restored first before checking the physical fence condition.
5. Keep the fence clear of vegetation and do a periodical check for any slack fence strands, etc.

# Standard Operating Procedure - LEDs

The status of the energizer and the fence is displayed on the front panel of the energizer, as follows:



Under **normal operating conditions:**

<b>TABLE 1</b>	<p><b>STATUS</b></p> <ul style="list-style-type: none"> <li>POWER ● Mains present, battery charging</li> <li>ON ● Fence energized</li> <li>ALARM ○ No fence alarm</li> <li>GATE ○ No gate alarm</li> <li>SERVICE ○ No service condition</li> </ul>
<b>TABLE 2</b>	<p><b>FENCE</b></p> <p>If all are flashing, fence is operating correctly</p>

Conditions that if ignored **will sound the alarm:**

<b>TABLE 3</b>	<p><b>STATUS</b></p> <ul style="list-style-type: none"> <li>POWER ○ Restore mains – see Note 1</li> <li>ON ○ Turn energizer on – see Note 2</li> <li>ALARM ⊗ Alarm condition</li> <li>GATE ⊗ Alarm condition</li> <li>SERVICE ⊗ Possible installer intervention required – see Note 3</li> </ul>
<b>TABLE 4</b>	<p><b>FENCE</b></p> <ul style="list-style-type: none"> <li>Fence good</li> <li>Concern – see Note 4</li> <li>Service fence – see note 4</li> <li>Service fence</li> <li>Alarm/Fence faulty</li> </ul>

**LED OFF**

**LED PERMANENTLY LIT**  
Fault occurred but is now gone

**LED FLASHING**  
Fault still present



## Features & Functions

### **INTEGRATED UNIT:**

For energizers designed from a security perspective, the fence monitoring is an integral part of the product. The energizer is an integrated energizer, battery charger and fence monitor with a siren and strobe light output.

### **LIGHTNING PROTECTION:**

The mains and high voltage outputs are protected against lightning and power surges. It also protects the unit against abnormally high potential differences between the high voltage and mains ground.

### **REMOTE KEY-SWITCH:**

The energizer can be wired to a remote on/off switch. There is only one external input and the selection of gate, remote on/off or low/high voltage is exclusive.

### **GATE INPUT:**

Gate delay entry of four minutes, one minute (Wizord 2 only) or immediate entry alarm.

### **HIGH/LOW VOLTAGE:**

The energizer (Wizord 2 only) can be switched between low/high voltage mode.

### **EARTH LOOP MONITORING:**

For additional security, the facility to use earth loop monitoring is provided for.

### **EXTENDED OPERATION DURING MAINS FAILURE:**

The unit detects the mains failure and reduces the fence output energy.

### **AUXILIARY 12VDC OUTPUT:**

A 12 Volts DC fused output is available to supply any auxiliary equipment like a radio remote receiver. The current must not exceed 0.5 amps.

### **SIREN OUTPUT:**

12VDC output for siren available.

### **STROBE LIGHT OUTPUT:**

12VDC output for strobe light available.

### **WEATHER PROOF HOUSING:**

The unit enclosure is made of high quality weather resistant material.

### **ARMED RESPONSE RADIO CONNECTABLE:**

The system has the facility to be connected to an armed response radio.

### **BATTERY BACKUP:**

The unit is supplied standard with a 12V 7AH rechargeable battery.

## IEC Safety Information

- The Energizer is fully compliant to IEC 60335-2-76.
- 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.

**Rev 1.5, 4 February 2016**

Updated for Wizord 4i

**Rev 1.6, 20 June 2016**

Combined Wizord 4i and Wizord 2

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