NEMTEK
Electric Fencing Products

WIZORD (2 & 4)
Electric Fence Energizers

User Manual

Contents

Introduction

The WIZORD 2 and WIZORD 4 are battery (12V 7AH nominal) operated energizers suitable for connection to mains (220-240Vac, 50-60Hz).

The batteries to be used are rechargeable lead-acid batteries. Non-rechargeable batteries must not be used. The lead-acid batteries require venting and it is imperative that the energizer be situated in a well-ventilated area.

A new fully charged battery will typically provide in excess of 24 hours backup. Backup time will vary with fence condition though.

Electric fencing can be lethal. Please avoid entanglement\entrapment hazards and warn the user to avoid head contact with the fence.

Disclaimer

NEMTEK Holdings (Pty) Ltd or any of its subsidiary companies does not guarantee that the operation of the product will be uninterrupted or totally error free.

Energizer specifications may be altered without prior notification.

The installer must take into consideration the applicable municipal laws concerning the installation of electric fences. General guidelines are available, or refer to the website: http://www.nemtek.com. International standards can be viewed at http://www.iec.ch and South African standards on http://www.sabs.co.za

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.

Electric fencing can be lethal. Avoid head contact with the fence. When installing please take careful note of the options available for current limiting resistors, the programmable output energy levels as well as the low-voltage operation of the energizer.

Nemtek Contact Details

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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.

Notes to Standard Operating Procedure

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.

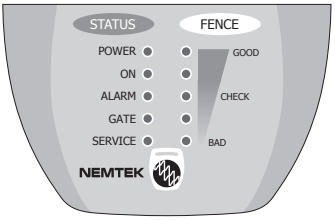
3. There are no "user-serviceable" parts within the energizer. Please refer all problems to qualified service personnel.

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.

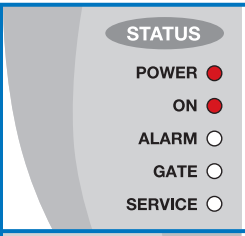
Standard Operating Procedure - LEDs

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



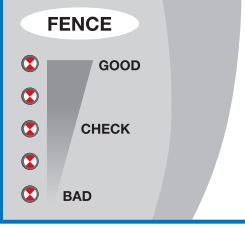
Under normal operating conditions:

TABLE 1



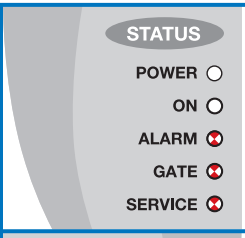
Mains present, battery charging
Fence energized
No fence alarm
No gate alarm
No service condition

TABLE 2



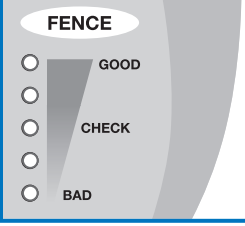
If all are flashing, fence is operating correctly

TABLE 3



Restore mains - see Note 1
Turn energizer on - see Note 2
Alarm condition
Alarm condition
Possible installer intervention required - see Note 3

TABLE 4



Fence good
Concern - see Note 4
Service fence - see Note 4
Service fence
Alarm/Fence faulty

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.

Features & Functions

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.

Weatherproof 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

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.

Please dispose of this energizer in an eco-friendly way at the end of its life.

WARRANTY

Unless otherwise specified all Nemtek energizers have a 2 year warranty and all other fencing components have a 1 year warranty from date of sale against defects due to faulty workmanship or materials. Nemtek (Pty) Ltd will, at its discretion, either repair or replace a product that proves to be defective.

Nemtek (Pty) Ltd does not guarantee that the operation of the product will be uninterrupted and totally error free. Faulty products 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 (Pty) Ltd.

LIMITATION OF WARRANTY

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

EXCLUSIVE REMEDIES

The remedies provided herein are Nemtek (Pty) Ltd's sole liability and the buyers sole and exclusive remedies for breach of warranty. Nemtek (Pty) Ltd 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 warranty is in lieu of any and all other warranties, whether expressed, implied, or statutory, including but not limited to warranties of merchantability and suitability for a particular purpose.

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Rev 1.5, 4 February 2016
Updated for Wizord 4i
Rev 1.6, 20 June 2016
Combined Wizord 4i and Wizord 2
Rev 2.0, 10 November 2025
Manual design update