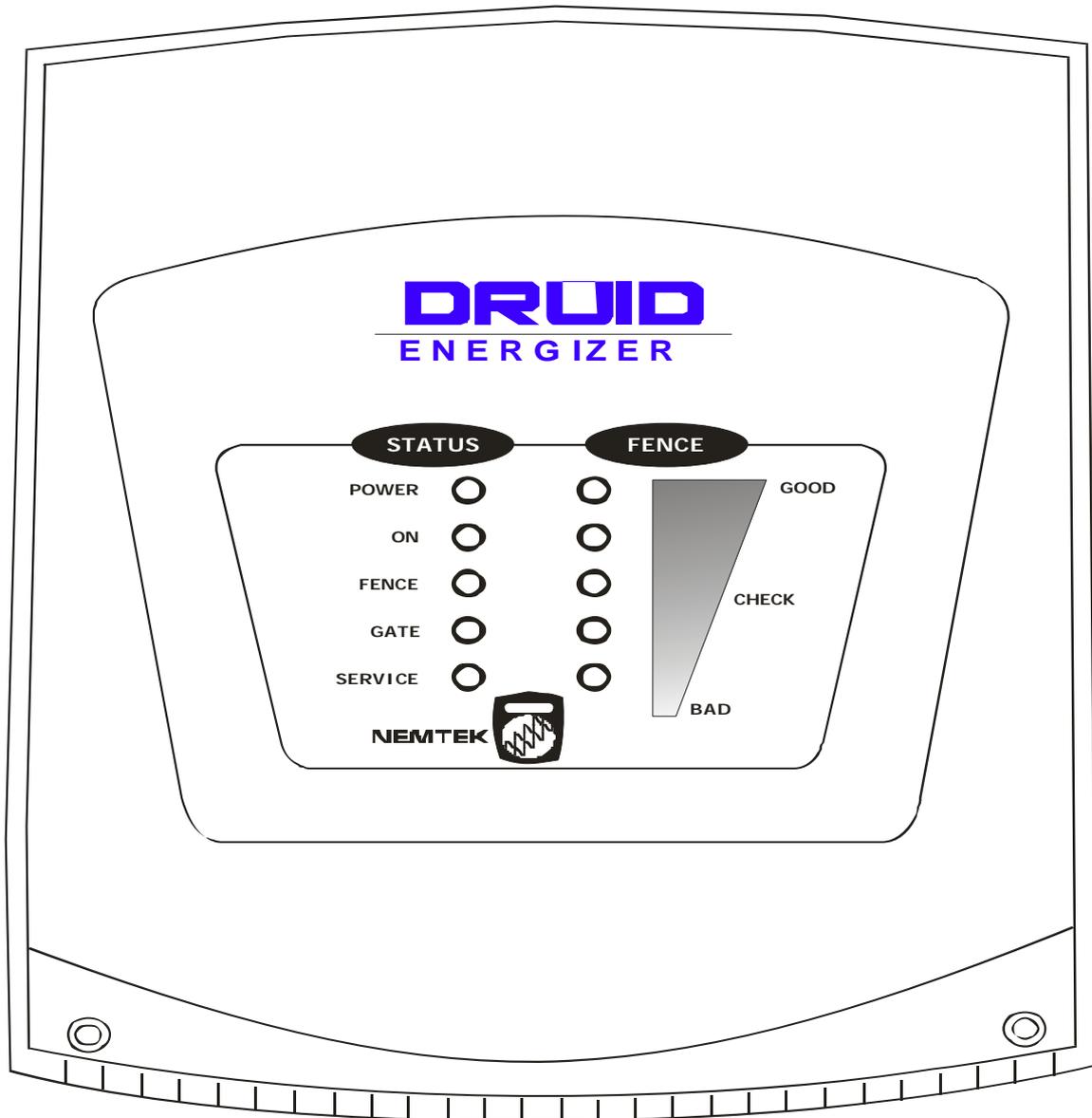




DRUID – Electric Fence Energizer

USER MANUAL



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I N T R O D U C T I O N

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 DRUID.

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

C O M P A N Y P R O F I L E

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 international standards in order to ensure the highest quality products and continuous customer satisfaction.

G U A R A N T E E

The DRUID energizer, manufactured by IO Tech Manufacturing (Pty) Ltd, is guaranteed for a period of one 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 IO Tech Manufacturing (Pty) Ltd from time to time, will execute its function of generating a suitable potential. IO Tech Manufacturing (Pty) Ltd does not guarantee that the operation of the product will be uninterrupted and totally error free. Faulty units must be returned to Nemtek, Units 4 & 5, 64 Vervoer Street, Kya Sand, Randburg, Gauteng, South Africa OR Nemtek Security Warehouse, Unit 4, Meadowdale Park, Cnr. Herman & Dick Kemp Roads, Meadowdale, Edenvale, Gauteng, South Africa. The buyer shall pay all shipping and other charges for the return of the product to Nemtek or Nemtek Security Warehouse.

L I M I T A T I O N O F G U A R A N T E E

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.

E X C L U S I V E R E M E D I E S

The remedies provided herein are IO Tech Manufacturing (Pty) Ltd's sole liability and the buyer's sole and exclusive remedies for breach of guarantee. IO Tech Manufacturing (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 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.

STANDARD OPERATION

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 four times when turned on and three times when turned off.

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; eg. 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 (siren and strobe light) and the internal buzzer.

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 exist. In the latter case simply turning the energizer On again will clear the memory condition. A flashing alarm light illustrates that the fault condition persist. 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.

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

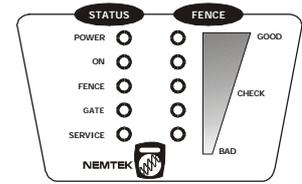
FENCE INDICATION

The fence lights indicates the condition of the fence in a bar graph type of display, under normal conditions the graph will go all the way to the top and indicate that the fence is good. If it does not reach the top the fence requires checking and clearing of vegetation. If non of the lights come on there is a fault on the fence and the alarm will sound.

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. However, should loading be detected on the fence, the unit will revert to the rated energy level, battery permitting, until the load is removed or mains is restored. This enables the unit to operate without mains for extended periods of time (ie. without loading and with good battery the unit should be able to operate for in excess of twenty hours). Batteries should be checked on a bi-annual basis.
2. A functional energizer will only turn itself off with a prolonged mains failure or if battery failure has occurred.
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 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.

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



Under **normal operating conditions**:

STATUS	
POWER	(Mains present, battery charging)
ON	(Fence energized)
FENCE	(No fence alarm)
GATE	(No gate alarm)
SERVICE	(No service condition)

FENCE	
	GOOD
	CHECK
	BAD

If all flash, fence is operating correctly

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

STATUS	
POWER	(Restore mains - see Note 1)
ON	(Turn energizer on - see Note 2)
FENCE	(Alarm condition)
GATE	(Alarm condition)
SERVICE	(Possible installer intervention required - see Note 3)

FENCE	
	GOOD
	CHECK
	BAD

(Check later - see Note 4)
 (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.

AUTO FENCE VOLTAGE:

If the monitor detects a drop in the fence voltage, it will automatically compensate by increasing the output energy. The opposite applies if the fence voltage is too high.

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.

INTERFERENCE SUPPRESSION / LOW EMI RADIATION:

The unit has been tested to comply with the latest international requirements CISPR14-2/1997.

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. However, should the fence loading increase, the unit will automatically provide additional energy to the fence within the limitations of the battery and energy rating of the unit.

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.

OPTIONS:

The energizer can be configured for different applications. However there is only one external input so only one of the options can be selected. The options should be discussed with the installer so that the energizer can be configured to suit the requirements.

Option 1: Gate delay entry of four minutes

Option 2: Gate delay entry of one minute

Option 3: Panic Alarm

Option 4: Remote On/Off

Option 5: Remote On/Off indication (no alarm strobe light available) and delay entry of four minutes

Option 6: The energizer can be switched between High and Low Voltage mode