



ELECTRIC FENCING PRODUCTS THAT DELIVER PEACE OF MIND

**NEMTEK**  
Electric Fencing Products



## DRUID™ 24 (DUAL ZONE)



The Druid 24 LCD is the dual zone version for the LCD range. Each independently controlled zone offers 2 joules of output energy into a 500 ohms load. This integral unit is ideal for dual zone systems and can be expanded to a 4 zone system.

- Two independently monitored and controlled zones
- A four zone system can be created by linking two D24 LCD energizers together
- Keypad programmable
- Each zone can be set independently to on/off or high/low voltage mode
- LCD display – quick and easy to read
- The unit can be used as a standard electric fence energizer, but can also be programmed to use the expansion card to be an integral part of an alarm system

### D24 EXPANSION CARD



- 10 relay outputs
- 4 relay inputs
- Programmable configuration for relays
- Relay outputs can be programmed to show and mimic
  - Zones 1 or 2 on and off
  - Zone 1 or 2 high and low voltage
  - Mains fail
  - Battery low
  - Alarms zone 1 and 2
  - Service indication
  - Tamper indication
  - Check indication zone 1 and 2
  - Communication time out
- Relay inputs can be programmed to control
  - Zone 1 and 2 on and off
  - Zone 1 and 2 high and low voltage

## FG7 TOUCHSCREEN

The FG7 is a touch screen LCD keypad interface that can be used to control a multiple number of energizers. The FG7 can be used with the Druid 24 LCD or with both the Merlin M25S and the M28S energizers.



## ENERGIZER SPECIFICATIONS

| Nemtek Energizer Brand   | Wizord             |             | Merlin          | Merlin Stealth™    |              |              |              | Stealth Master |              | Druid                 |             |                    |                  |                                   |
|--|--------------------|-------------|-----------------|--------------------|--------------|--------------|--------------|----------------|--------------|-----------------------|-------------|--------------------|------------------|-----------------------------------|
| Model Number   | 2                  | 4           | 4               | M15S               | M18S         | M25S         | M28S<br>M28X | M25M           | M28M         | 13 LCD                | 15 LCD      | 18 LCD             | 114<br>LCD       | 24 LCD                            |
| Energizer Dimensions   |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
|  | L180 x W205 x D120 |             |                 | L365 x W230 x D140 |              |              |              |                |              | L180 x W205 x<br>D120 |             | L365 x W230 x D140 |                  |                                   |
| High Voltage Outputs   |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
| Typical energy output into<br>500 Ohms load (Joules)   | 2J                 | 3.7J        | 3.7J            | 4.8J               | 7.6J         | 4.8J         | 7.6J         | 4.8J           | 7.6J         | 3J                    | 4.6J        | 7.6J               | 13.8J<br>(150 Ω) | 1.9J x<br>2 zones                 |
| Output Voltage into an open circuit  | 7 400V             | 8 000V      | 8 000V          | 8 500V             | 9 300V       | 8 500V       | 9 300V       | 8 500V         | 9 300V       | 9 000V                | 9 000V      | 9 600V             | 9 000V           | 10kV                              |
| High or Low Voltage modes, alarm<br>monitoring is enabled in both<br>modes. Output voltage settings<br>can be changed for both the High<br>and the Low voltage modes | N/A                | N/A         | Yes             | Yes                | Yes          | Yes          | Yes          | Yes            | Yes          | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Number of High Voltage<br>monitored zones  | 1                  | 1           | 1               | 1                  | 1            | 2            | 2            | 2              | 2            | 1                     | 1           | 1                  | 1                | 2                                 |
| Number of Earth loop monitored<br>zones  | 1                  | 1           | 1               | 1                  | 1            | 2            | 2            | 2              | 2            | 1                     | 1           | 1                  | 1                | 2                                 |
| Adaptive Power Technology (APT),<br>reducing false alarms and arcing<br>on the fence   | No                 | No          | No              | No                 | No           | No           | No           | No             | No           | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Fence Interference detection from<br>foreign energizers  | No                 | Yes         | Yes             | No                 | No           | No           | No           | No             | No           | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Energizer Controls and Displays  |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
| Keypads for the remote control of<br>the energizer   | No                 | No          | 4 max<br>1 incl | 4 max              | 4 max        | 4 max        | 4 max        | 4 max          | 4 max        | 2 max                 | 2 max       | 2 max              | 2 max            | 2 max                             |
| Tag switch – to control the<br>energizer without using a keypad  | Yes                | Yes         | Yes             | Yes                | Yes          | Yes          | Yes          | Yes            | Yes          | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Remote On/Off input  | Yes*               | Yes*        | Yes*            | Yes*               | Yes*         | Yes*         | Yes*         | Yes*           | Yes*         | Yes*                  | Yes*        | Yes*               | Yes*             | Yes                               |
| Displays the output and return<br>voltages   | No                 | No          | No              | No                 | No           | No           | No           | No             | No           | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Display type   | LED                | LED         | LED             | LED                | LED          | LED          | LED          | LED            | LED          | LCD                   | LCD         | LCD                | LCD              | LCD                               |
| Gate and Panic Button inputs   |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
| Timed gate switch input, used<br>to monitor open and closing of<br>the gate  | Yes*               | Yes*        | Yes*            | Yes*               | Yes*         | Yes*         | Yes*         | Yes*           | Yes*         | Yes*                  | Yes*        | Yes*               | Yes*             | Yes                               |
| Panic button input   | Yes*               | Yes*        | Yes*            | Yes*               | Yes*         | Yes*         | Yes*         | Yes*           | Yes*         | Yes*                  | Yes*        | Yes*               | Yes*             | Yes                               |
| Alarm outputs  |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
| Siren output, time programmable  | Fixed              | Fixed       | Yes             | Yes                | Yes          | Yes          | Yes          | Yes            | Yes          | Yes                   | Yes         | Yes                | Yes              | Yes                               |
| Strobe light output to visually<br>indicate an alarm condition   | 1                  | 1           | 1               | 1                  | 1            | 2            | 2            | 2              | 2            | 1                     | 1           | 1                  | 1                | 2                                 |
| Power supply and battery backup systems  |                    |             |                 |                    |              |              |              |                |              |                       |             |                    |                  |                                   |
| Mains supply voltage***  | 230V               | 230V        | 230V            | 230V               | 230V         | 230V         | 230V         | 230V           | 230V         | 230V                  | 230V        | 230V               | 230V             | 100 –<br>240Vac<br>/ 50 –<br>60Hz |
| Typical power consumption under<br>normal operating conditions   | 17VA               | 18VA        | 16VA            | 27VA               | 27VA         | 27VA         | 27VA         | 27VA           | 27VA         | 18VA                  | 18VA        | 25VA               | 27VA             | 25VA                              |
| Internal battery backup system<br>in case of power failure, capacity<br>of battery   | 7 Ah               | 7 Ah        | 7 Ah            | 7 Ah               | 7 Ah         | 7 Ah         | 7 Ah         | 7 Ah           | 7 Ah         | 7 Ah                  | 7 Ah        | 7 Ah               | 7 Ah             | 7 Ah                              |
| Typical standby time, with a fully<br>charged battery  | 24 hrs             | 36 hrs      | 24 hrs          | 6 hrs              | 8 hrs        | 7 hrs        | 6 hrs        | 7 hrs          | 6 hrs        | 24 hrs                | 24 hrs      | 24 hrs             | 9 hrs            | 24 hrs                            |
| Solar power panels can<br>be connected to power the<br>energizers, (recommend Watt size<br>for 24 hr operation)**  | 60<br>Watts        | 60<br>Watts | 60<br>Watts     | 120<br>Watts       | 140<br>Watts | 120<br>Watts | 140<br>Watts | 120<br>Watts   | 140<br>Watts | 60<br>Watts           | 60<br>Watts | 140<br>Watts       | 140<br>Watts     | 60<br>Watts                       |

| Nemtek Energizer Brand   | Wizord |       | Merlin | Merlin Stealth™ |        |         |              | Stealth Master |         | Druid  |        |        |            |         |
|--|--------|-------|--------|-----------------|--------|---------|--------------|----------------|---------|--------|--------|--------|------------|---------|
| Model Number   | 2      | 4     | 4      | M15S            | M18S   | M25S    | M28S<br>M28X | M25M           | M28M    | 13 LCD | 15 LCD | 18 LCD | 114<br>LCD | 24 LCD  |
| Solar voltage regulator  | 5 Amp  | 5 Amp | 5 Amp  | 9 Amp           | 10Amp  | 9 Amp   | 10Amp        | 9 Amp          | 10Amp   | 5 Amp  | 5 Amp  | 10Amp  | 10Amp      | 5Amp    |
| Deep cycle battery size<br>recommended in Amp hours (20<br>% discharge over a 24 hr cycle)         | 60 Ah  | 60 Ah | 60 Ah  | 120 Ah          | 150 Ah | 120 Ah  | 150 Ah       | 120 Ah         | 150 Ah  | 60 Ah  | 60 Ah  | 150 Ah | 150 Ah     | 60 Ah   |
| <b>Wire length per energizer (live wires in a series system) for both solid and stranded wires</b> |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| <b>Galvanised wires, 1.2mm</b>   |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 2km    | 3km   | 3km    | 8km             | 10km   | 2x4km   | 2x5km        | 2x4km          | 2x5km   | 3km    | 5km    | 10km   | 15km       | 2x2km   |
| • Maximum  | 4km    | 5km   | 5km    | 18km            | 25km   | 2x9km   | 2x13km       | 2x9km          | 2x13km  | 5km    | 8km    | 25km   | 35km       | 2x4km   |
| <b>Galvanised wires, 2.0mm,<br/>2.24mm</b>   |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 3km    | 4km   | 4km    | 16km            | 20km   | 2x8km   | 2x10km       | 2x8km          | 2x10km  | 3.3km  | 5km    | 20km   | 20km       | 2x3km   |
| • Maximum  | 6km    | 10km  | 10km   | 35km            | 50km   | 2x17km  | 2x25km       | 2x17km         | 2x25km  | 6.6km  | 12km   | 50km   | 50km       | 2x6km   |
| <b>Stainless Steel 1.0mm, 304 and<br/>316 grade</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 0.5km  | 0.6km | 0.6km  | 0.6km           | 0.7km  | 2x0.7km | 2x0.8km      | 2x0.7km        | 2x0.8km | 0.6km  | 0.7km  | 0.8km  | 0.9km      | 2x0.5km |
| • Maximum  | 0.6km  | 0.9km | 0.9km  | 0.9km           | 1km    | 2x1km   | 2x1.2km      | 2x1km          | 2x1.2km | 0.9km  | 1km    | 1km    | 1.2km      | 2x0.6km |
| <b>Stainless Steel 1.2mm, 304 and<br/>316 grade</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 0.6km  | 0.7km | 0.7km  | 0.8km           | 1km    | 2x0.8km | 2x1km        | 2x0.8km        | 2x1km   | 0.7km  | 0.8km  | 1km    | 1km        | 2x0.6km |
| • Maximum  | 0.9km  | 1km   | 1km    | 1.1km           | 1.3km  | 2x1.1km | 2x1.3km      | 2x1.1km        | 2x1.3km | 1km    | 1.1km  | 1.3km  | 1.3km      | 2x0.9km |
| <b>Stainless Steel 1.6mm, 304 and<br/>316 grade</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 1.2km  | 1.4km | 1.4km  | 1.6km           | 2km    | 2x1.6km | 2x2km        | 2x1.6km        | 2x2km   | 1.4km  | 1.6km  | 2km    | 2km        | 2x1.2km |
| • Maximum  | 1.8km  | 2km   | 2km    | 2.2km           | 2.6km  | 2x2.2km | 2x2.6km      | 2x2.2km        | 2x2.6km | 2km    | 2.2km  | 2.6km  | 2.6km      | 2x1.8km |
| <b>Stainless Steel 2.0mm, 304 and<br/>316 grade</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 1.8km  | 2.1km | 2.1km  | 2.4km           | 3.3km  | 2x2.4km | 2x3km        | 2x2.4km        | 2x3km   | 2.1km  | 2.4km  | 3.3km  | 3km        | 2x1.8km |
| • Maximum  | 2.7km  | 3km   | 3km    | 3.3km           | 3.9km  | 2x3.3km | 2x3.9km      | 2x3.3km        | 2x3.9km | 3km    | 3.3km  | 3.9km  | 3.9km      | 2x2.7km |
| <b>Aluminium Wire 1.6mm and<br/>2.0mm</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| • Optimal performance up to  | 6km    | 8km   | 8km    | 32km            | 40km   | 2x16km  | 2x20km       | 2x16km         | 2x20km  | 8km    | 10km   | 40km   | 40km       | 2x6km   |
| • Maximum  | 12km   | 16km  | 16km   | 60km            | 80km   | 2x30km  | 2x40km       | 2x30km         | 2x40km  | 16km   | 20km   | 80km   | 80km       | 2x12km  |
| <b>Multi energizer systems</b>   |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| Can be used in multi-energizer<br>network system   | No     | No    | No     | No              | No     | Yes     | Yes<br>No    | Yes            | Yes     | No     | No     | No     | No         | Yes     |
| <b>Compliance</b>  |        |       |        |                 |        |         |              |                |         |        |        |        |            |         |
| IEC 60335-2-76   | Yes    | Yes   | Yes    | Yes             | Yes    | Yes     | Yes          | Yes            | Yes     | Yes    | Yes    | Yes    | Yes        | Yes     |
| Cispr 14, EN 61000   | Yes    | Yes   | Yes    | Yes             | Yes    | Yes     | Yes          | Yes            | Yes     | Yes    | Yes    | Yes    | Yes        | Yes     |

Output energy is a function of component tolerance and energy settings, and is reduced during power failure.

YES\* Indicates that this function is available at the cost of another function, further details are on our website [www.nemtek.com](http://www.nemtek.com).

\*\* Solar Panel sizes and Battery capacities are based on the exposure to sunlight in southern Africa and can change depending on the location of the solar panels.

\*\*\* All energizers are manufactured with a 230Vac  $\pm$  10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

**Specification may change without prior notice.**



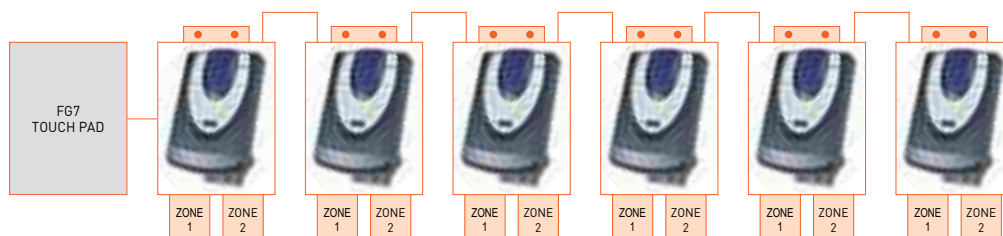
## USING THE DRUID 24 LCD ENERGIZERS

### 1. DRUID 24 LCD 4 ZONE SYSTEM



The Druid 24 LCD energizer can be networked into a 4 zone system using a second Druid 24 LCD energizer. No communication cards are needed for this simple and cost-effective 4 zone solution.

### 2. FG7 SYSTEM. 2 TO 64 ZONE SYSTEMS



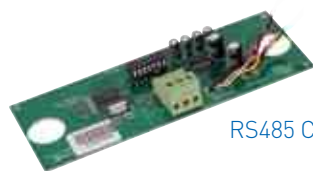
The FG7 system comprises of a LCD touch pad and up to 32 Druid dual zone energizers. Up to 32 Druid dual zone energizers can be controlled by the FG7 offering up to 64 independent zones. This system can also control relay cards for other functions such as gate control and monitoring.

### 3. THIRD PARTY SOFTWARE

The Druid 24 dual zone energizers can be integrated with other software systems using software development kits (SDK) once these systems have been qualified by Nemtek.

## COMMUNICATION CARDS ( )

RS485 and fiber optic communication cards are available for both the Merlin Stealth and the Druid 24 dual zone energizers. These cards allow energizers that are located far apart to communicate with each other and the system. They are housed near or inside the energizers and are powered by the energizer.



RS485 CARD



RS485 CARD  
FOR D24 LCD



FIBER OPTIC CARD

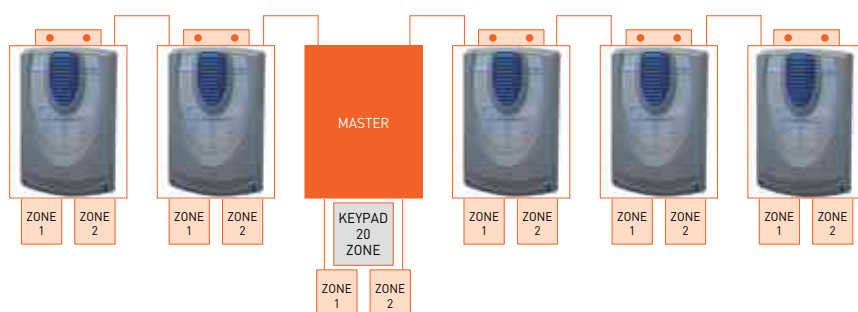
| Network Type                | Energizer types        | Max Zones per sites | Number of sites      | Display and control           | Physical network communication cards | External interface (Connectivity) |
|-----------------------------|------------------------|---------------------|----------------------|-------------------------------|--------------------------------------|-----------------------------------|
| Master system               | M25M, M28M, M25S, M25S | 20                  | 1                    | Led 20 zone keypad            | 1. RS485<br>2. Fiber optics          | Mimic (relays)                    |
| FG7 system                  | M25S, M28S             | 32                  | 1                    | LCD 7" touch pad              | 1. RS485<br>2. Fiber optics          |                                   |
| Nemtek Fence Probe software | M25S, M28S             | 32                  | 5 (standard package) | Computer, screen and keyboard | 1. RS485<br>2. Fiber optics          | TCP/IP                            |
| Cortech Developments        | M25S, M28S             | 32                  | Multiple             | Computer, screen and keyboard | 1. RS485<br>2. Fiber optics          | TCP/IP, Expansion cards (Netiom)  |
| Druid 24 – 4 zone system    | D24                    | 4                   | 1                    | Led 4 zone keypad             |                                      | Expansion card                    |
| FG7 system                  | D24                    | 64                  | 1                    | LCD 7" touch pad              | 1. RS485<br>2. Fiber optics          | Expansion card TCP/IP             |
| Third party software        | D24                    | 64                  | Multiple             | Computer, screen and keyboard | 1. RS485<br>2. Fiber optics          | TCP/IP                            |

## MULTI ZONED SYSTEMS

In situations where multiple electric fence zones are required both the Merlin Stealth and the Druid dual zone energizer systems offer a range of options.

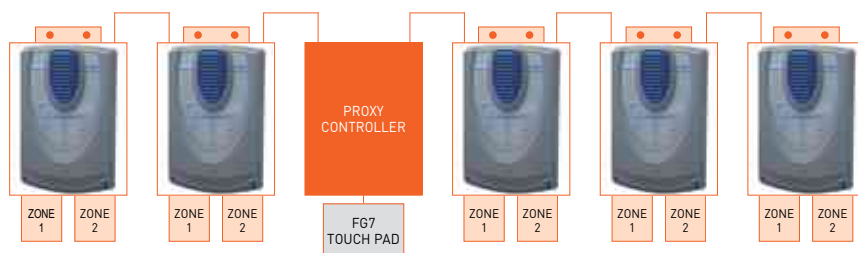
### USING THE MERLIN STEALTH M25S AND M28S ENERGIZERS

#### 1. MASTER 4 – 20 ZONE SYSTEM



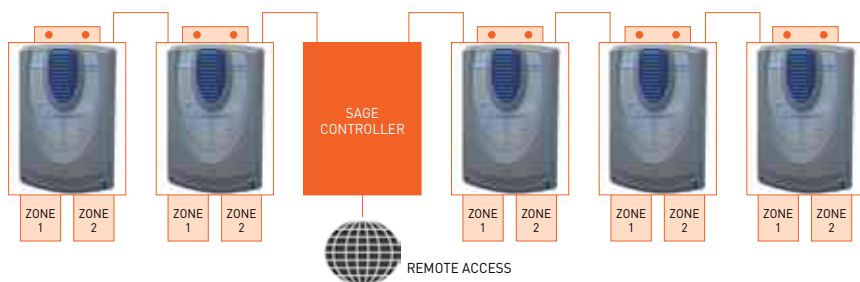
The Merlin master system comprises of a Merlin Stealth Master energizer and up to 9 standard dual zone Merlin Stealth energizers acting as sub-energizers or “slaves” to the Master. The master energizer has two zones and by adding 9 slaves to the system up to 20 electric fence zones can be controlled by one 20 zone LED keypad.

#### 2. FG7 SYSTEM. 2 TO 32 ZONE SYSTEMS



The FG7 system provides the system operator with a touch screen user interface. This allows the operator to control and monitor up to 32 Merlin Stealth dual zone energizers, allowing for 64 zones. The FG7 communicates with a proxy controller that provides battery backup in the case of power failure. The administrator of the system can configure the system to allocate what is considered as an alarm condition.

#### 3. NEMTEK FENCE PROBE SOFTWARE



The Sage controller provides TCP/IP connectivity to the outside world and in particular the Nemtek Fence Probe software allows a visual map image of the fence and its zones to be displayed on a computer screen. Each zone can be seen and controlled from a central computer. The Nemtek Fence Probe software can control a multitude of sites, logging events and visually displaying what is happening on the system.

#### 4. THIRD PARTY SOFTWARE

The Merlin Stealth dual zone energizers range can be integrated with other technologies such as fire alarms, access control, CCTV and be part of a larger system using the Cortech Developments software. Visit [www.cortech.co.uk](http://www.cortech.co.uk) for more information of this high-end management system.

## TIPS TO INCREASE YOUR SECURITY

Nemtek's worldclass products are designed and manufactured to ensure a high security solution and offer reliability for many years. Due to the large range of products on offer here are a few tips to ensure your system meets your security needs and operates reliably.

- Spacing between fence wires must not exceed 100mm. This will reduce attempts to part wires. Earth or live loops fitted on the fence will cause an alarm when there is an attempt to part the wire.
- The bottom fence wire where possible should be live and fitted with an anti lift loop where there is a threat of lifting this bottom wire. The top wire must also be live.
- All electric fencing live wires must be connected in a series circuit so that a cut live wire can be detected anywhere along the fence.
- Spacing between posts must not exceed 3 metres. This will discourage attempts to part wires. In the case of freestanding fencing it is recommended that a shorter post be placed between the main posts reducing the span to 1.5m. This in-between shorter post will stop any attempts to lift the bottom wires. Ensure that the ground under the freestanding fencing is secure and not easy to dig under. The height of the freestanding fence must be at least 2m.
- The height of the bracket above the wall is important, the higher the wall brackets the more it discourages attempts to step over the fence. The wider walls will need higher and angled brackets to cover the span of the wall top and reduce any chance of standing on the wall.
- The fence wires must be under constant tension using compression springs. This will improve the aesthetics and the security of the fence.
- Alarm zones lengths should not be longer than 200 metres. The zones must be powered by independent energizer zones. This will help locate the fault faster. This is not always possible due to cost and location constraints. In high security areas shorter zones are recommended.
- No two zones must rely on each other being intact to operate effectively and must be independently alarm monitored. This is important in the case of an attempted multi-point entry breach of the fence.
- Gates can be a weak point. Make sure that sliding gates cannot be lifted up off the rack and be slid open. In the case of swing gates they can be forced open when they are closed. These gates can be monitored for unauthorised entry using a magnetic switch.
- Ensure that the fence is kept free of vegetation.

Frequent testing of the fence is imperative. This test must be on a few points along the fence line.

## GENERAL INFORMATION

**WARRANTIES:** Energizer electronics come with a one year warranty, subject to our standard terms and conditions as set out on the Nemtek website.

**COMPLIANCE:** Nemtek energizers and products conform to the standards set out by the IEC 60355-2-76, CISPR 14 and EN 6100. Please refer to energizer section of the Nemtek website for more details ([www.nemtek.com](http://www.nemtek.com)).

**SPECIFICATIONS:** Product details can change without prior notice. This brochure is for general information and marketing purposes only.

**TERMS AND CONDITIONS OF SALE:** Sales of all Nemtek products are done subject to our standard terms and conditions of sale and our distribution agreements. Nemtek terms and conditions of sale are available at all Nemtek branches.

Authorised distributors and representative offices are available around the world, please contact us at [exports@nemtek.com](mailto:exports@nemtek.com) for further information.

**TRAINING COURSES:** Nemtek offers training courses for beginners and advanced training on the principles of electric fencing and also on all the products that it manufactures. The scheduled course dates are displayed on our website on [www.nemtek.co.za](http://www.nemtek.co.za) or email us at [training@nemtek.com](mailto:training@nemtek.com).

For international training courses please email [exports@nemtek.com](mailto:exports@nemtek.com).

**NEMTEK**  
Electric Fencing Products



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