



NEMTEK
Electric Fencing Products



WORLD NO.1 IN ELECTRIC FENCING



Nemtek, a pioneer in its field, has become the benchmark for the security electric fencing industry. The Nemtek group manufactures a full range of energizers and fencing hardware for **industrial, commercial and residential applications, and is the product of choice to protect** and has become a globally known and respected company.

Specified by many governments, local authorities and industries as the product of choice to protect domestic, retail and commercial, to airports, power stations, defence facilities and utilities.

residential



commercial



industrial



utilities



high security



power station



WHY ELECTRIC FENCING FOR SECURITY?

DETER, DETECT AND DELAY

A high-voltage shock combined with a physical barrier will deter anyone from attempting to penetrate the perimeter fence.

The detecting ability of a Nemtek electric fence energizer will sound an alarm when the perimeter of the property being protected has been infiltrated or tampered with.

By keeping the perimeter protected using an electric fence, the attempted break in of the protected area is delayed, giving additional time for a reaction team to respond.

The Nemtek group manufactures and supplies a full spectrum of energizers and fencing hardware for industrial, commercial and residential applications, and is the product of choice to protect and deliver peace of mind.



ENERGIZERS

MERLIN 4 (SINGLE ZONE) - 3.7J



The Merlin 4 offers what the Wizard 4 has in terms of features, but with remote control through a dedicated keypad. The keypad also allows the user and the installer to programme and control the energizer from a remote location. This allows the energizer to be installed near the fence and the keypad to be located where it is most convenient for the user.

Additional features that the standard Wizard does not have can be enabled through the keypad.

MERLIN STEALTH M15S (SINGLE ZONE) - 4.8J

MERLIN STEALTH M25S (DUAL ZONE) - 4.8J



The Nemtek Merlin Stealth is a powerful range of energizers, that can be used as simple high-end security energizers, but can also be programmed to offer a customised solution. The Merlin Stealth dual zone energizers are ideal for higher security requirements and can be networked if required.

DRUID™ 13 LCD, 15 LCD (SINGLE ZONE) - 3J, 4.6J



The Druid 13 and 15 offer 3.0 J and 4.6 J output energy.

Using the **Adaptive Power Technology (APT)**, pioneered and patented by Nemtek, these two energizers offer a new and unique method in detecting how much power a fence can accept and handle before it starts to arc and waste energy. This allows the fence to operate at higher voltages and more efficiently.

Changes in the surrounding environment can affect a fence's efficiency. The **APT** actively analyses the fence and adapts the transfer of power as required to ensure maximum performance.



DRUID™ 24 (DUAL ZONE) - 2X 1.9J



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.



D24 EXPANSION CARD

- 10 relay outputs
- 4 relay inputs
- Programmable configuration for relays
- Relay outputs can be programmed to show and mimic
- Relay inputs can be programmed to control

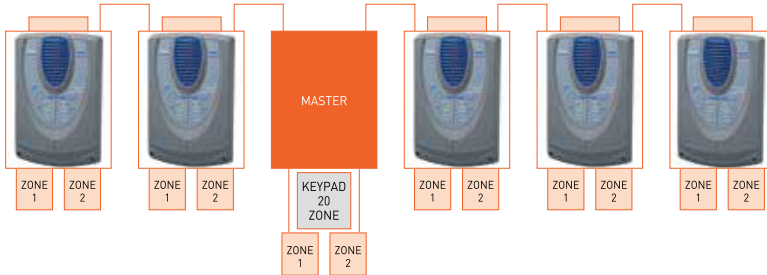
MULTI ZONED SYSTEMS

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

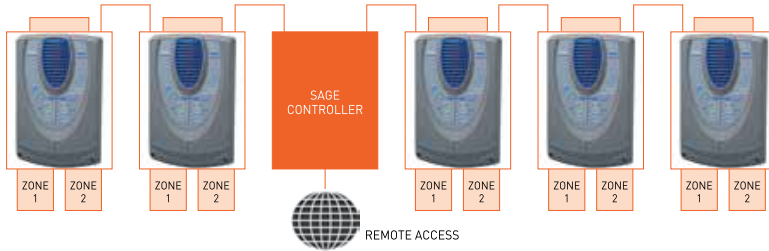


1. MASTER 4 – 20 ZONE SYSTEM



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. 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.



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.

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

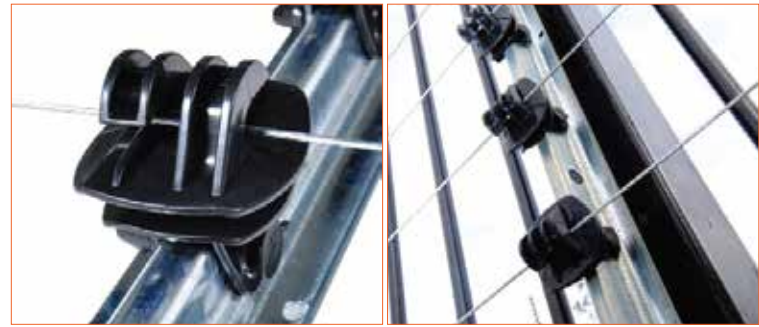


GPS SYNCHRONISER MODULE FOR D24 LCD

BRACKETS AND ACCESSORIES

OMEGA BRACKETS

The Omega bracket offers a flexible solution to the piggy back systems, where an electric fence can use the mechanical strength of an existing fence to reduce the cost of constructing a complete new system. The Omegas can also be used to secure windows and roofs, thus making this bracket an extremely versatile and flexible solution. The pre-punched holes allow options of where insulators can be fixed.



OMEGA DOUBLE SHIELD INSULATOR

WALL TOP BRACKETS AND ACCESSORIES

Nemtek brackets are made to a high standard to maximise security and long life in the field. The level of security achieved is directly affected by the choice of bracket, the number of wires forming the electrical barrier and the distance between the brackets. Nemtek offers a large range of brackets to suit most wall types and applications. They are made from steel and are finished in a high quality coating of outdoor powder, or hot dip galvanised for coastal conditions. Our factory can manufacture different types of designs and finishes on request.

 <p>SQUARE TUBE JURASSIC T-POLE</p> <ul style="list-style-type: none">• 8 wires• Offering high security• Large base plate for stronger mounting• PC or HDG finish• 760mm long	 <p>QF BRACKET</p> <ul style="list-style-type: none">• Straight and angled• 6,8 or 10 wires• HDG or HDG and PC finish• 5 or 6 wires• 1 395mm long• Ideal for coastal use	 <p>STAY AND LUG</p> <ul style="list-style-type: none">• Available in 600mm and 750mm• Available hot dip galvanized• Easier and faster installation
 <p>ROUND BAR PVC</p> <ul style="list-style-type: none">• 5 wires• PVC finish, steel inner core• 600mm long	 <p>SQUARE TUBE JURASSIC STRAIGHT</p> <ul style="list-style-type: none">• Straight and angled• 6 or 8 wires• HDG or HDG and PC finish• 995 mm or 1195 mm long	 <p>TEK SCREWS</p> <ul style="list-style-type: none">• Self-drilling screws for mounting onto metal structures• HDG or electro-plated finish

PC: Powder coated finish, HDG: Hot dip galvanised, HDG and PC: First hot dip galvanised and then powder coated

MODULUS SYSTEM

The patented Modulus brackets are designed with flexibility in mind. By using the different components, a full range of sizes and different applications can be formulated. It gives the installer flexibility on the spacing of the insulators, amount of insulators and height of the fence. The key components are the 2-way and 3-way brackets. The 2-way is primarily used as an intermediate bracket. The 3-way is used as an end tensioning post, as a corner post, to change the wire direction, or as an inline strain post on long straight walls.

KEY FEATURES OF THE MODULUS SYSTEM

- Durable and can be installed in most harsh environments
- Light to transport and easy to handle
- Insulator can be installed on both sides

MODULUS 2-WAY BRACKET

MODULUS 3-WAY BRACKET



FENCING WIRES AND CABLES

FENCE WIRES

A variety of solid and stranded (also known as braided) Nemtek wires are available to address the different environmental, mechanical strength, and electrical resistance requirements. The flexibility offered by the stranded wire construction makes working with the wire easier during installation and results in a neat clean look on the fence without compromising the fence performance.



ALUMINIUM WIRE

- This wire is available in both solid and stranded wire construction; 1.6 and 2.0mm
- Aluminium wire has the lowest resistance of all Nemtek wires
- It has a high resistance against corrosion, offering a long lifespan on the fence

STAINLESS STEEL WIRE

- Available in both solid and stranded wire construction, in a 304 and 316 grade
- 316 being the grade of choice for high corrosive coastal areas

HIGH VOLTAGE CABLE

A-SERIES HIGH VOLTAGE CABLE (HT CABLES)



- The A-Series high voltage cable is used with the range of aluminium wires and galvanised earth spikes
- Ideal for coastal conditions where aluminium wire is used
- Low electrical resistance reducing power and voltage drops over long distances



U-SERIES (UNDERGROUND HT CABLES)

- The U-Series high voltage cable is used with galvanised wires
- Available in 1.6mm and 2.5mm heavy galvanised inner conductor

CABLE CONNECTORS

FERRULES



- Ferrules offer a permanent connection and cannot be removed (for high security)
- Good mechanical connection for a good electrical conductivity

LINE CLAMPS



- The line clamps are used for the larger wire diameters
- Can connect after the wire has been installed
- 6mm electro-galvanised

PLASTIC INSULATORS

	ROUND BAR INSULATOR <ul style="list-style-type: none">• Used with the 10mm roundbar• Flexible inner core for increased clearance		NAIL ON INSULATOR <ul style="list-style-type: none">• Large clips for heavy duty applications with thicker wires• Larger clearance to eliminate power leakage
	QF INSULATOR FOR SQUARE TUBING <ul style="list-style-type: none">• Longer tracking distance for less arcing• Feed through clip option built in		OMEGA INSULATOR <ul style="list-style-type: none">• Double tracking fin to reduce tracking & arcing• Quick fit design for the Omega bracket• Anti-climb version available
	OMEGA PULL THROUGH INSULATOR <ul style="list-style-type: none">• Heavy duty and durable design• Large creepage distance		JURASSIC INSULATOR - SLOTTED <ul style="list-style-type: none">• Wire slot for quick installation• Larger creepage distance to reduce power loss

TENSIONING SYSTEMS AND ACCESSORIES

HYBRID NYLON TENSIONER



- Combination of two tensioning systems, an active system to expand and compress as required, and the mini titan can take up any slack that has been created over time







HEAVY DUTY COMPRESSION SPRING

- Can be used with any electric fencing wire
- Stainless steel spring



HYBRID BB HEAVY DUTY NYLON TENSIONER

- A hardy heavy duty tensioner for all weather types
- It eliminates galvanic reaction between dissimilar metal thus eliminating rust and can be used with any type of wire

	LARGE TAIL HOOK <ul style="list-style-type: none">• Hot dip galvanised for long life expectancy• Suitable for the Omega brackets, angled & round corner poles		90 DEGREE S-HOOK <ul style="list-style-type: none">• Hot dip galvanised for long life expectancy• Suitable for omega brackets
	S-HOOK <ul style="list-style-type: none">• Stainless steel hook for long life expectancy• Large tail to fit the range of tensioning devices• Quick fit onto the round and flat bar insulator		180 DEGREE S-HOOK <ul style="list-style-type: none">• Hot dip galvanised for long life expectancy• Suitable for omega brackets

FENCING TOOLS AND TESTERS

FENCING TOOLS AND WIRE DISPENSERS



ALUMINIUM WIRE

- Portable design



DISTANCE MEASURING WHEEL

- Quick, walk along distance measuring tool



KNIPPEX WIRE CUTTER

- Designed for high tensile wire cutting



PROFESSIONAL CRIMPING TOOL

- Durable ferrule crimping tool



HALF INCH RACHET

- For the Hybrid BB heavy duty tensioner

FENCE SCOPE™ MULTI TOOL

HELPING YOU DIAGNOSE PROBLEMS AND OPTIMISE YOUR ELECTRIC FENCE INSTALLATION



FOUR SELECTABLE MODES OF OPERATION

- Fence Probe – quickly indicates the direction of a fault, showing the voltage and current
- Fence Energy – accurately measures the output energy (joules)
- Fence Scope – can record and display the waveform of the pulse
- Fence Noise – shows the amount of electromagnetic interference generated by the fence or energizer



GENERAL FENCING ACCESSORIES

WARNING DEVICES



WARNING SIGNS

- UV protected for long life
- Wire clips on the warning sign reduce installation time
- Compliance requirements, every 10m and change of direction



SIRENS

- Available in 15 and 30 watt power output
- 12 volt DC supply



FENCELIGHT

- Install it on your electric fence to indicate power status for peace of mind
- One directional viewing angle, allowing the light to shine into the secure area only. The status is not visible to external areas
- Dual stage design allows the intensity on the light to increase as the voltage on the fence increases



STROBE LIGHTS

- Visual indicator of an alarm
- Used to show the status of a fence after an alarm condition offering a visual alarm event memory

ENERGIZER ENCLOSURES



METAL ENCLOSURE

- Powder coated metal enclosure with an inspection window
- Available in two sizes:
 - (h) 600 x (w) 460 x (d) 230
 - (h) 600 x (w) 800 x (d) 300



LIGHTNING INHIBITOR AND DIVERTER

- The lightning inhibitor and diverter reduces the likelihood of power surge coming through the fence wires to the energizer.
- It offers a two pronged approach. Firstly it inhibits the lightning surge from damaging the energizer and secondly it diverts any lightning surge away from the energizers into the ground through the earth spikes.



HEAVY DUTY SLIDING GATE CONTACT WITH AN OPTIONAL GALVANISED STEEL MOUNTING BRACKET

- Used for series wiring of the gate
- Suitable for any sliding gate
- Robust construction using stainless steel and brass, making it suitable for outdoor use in most climates



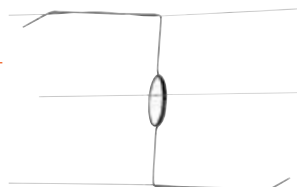
EARTH SPIKES

- Hot dip galvanised or copper clad earth spikes with nuts and washers
- The double nut and washer makes a good electrical connection with the HT cables

EARTH LOOPS AND BRIDGING WIRES

IN LINE LOOP

- Installed onto the fence wire, generally between the earth wires
- Available in galvanised and hardened steel



For enquiries, please contact:

Specification is subject to change without prior notice.