

ELECTRO-FENCE™



Advanced Perimeter Systems Limited



Features:

- ◆ Psychological and physical deterrent
- ◆ Fitted to existing fence
- ◆ Government approved
- ◆ BS EN ISO standards compliant
- ◆ Safe and secure





Intruder Deterrent and Detector

Electro-Fence™ is a powerful intruder deterrent which can be attached to an existing perimeter fence or used as a stand-alone fence.

The obvious physical presence of the fence with its bright yellow warning signs presents a potent front-line deterrent. Access to the premises can therefore be denied at the perimeter. As soon as an attempt to climb or cut the fence is made a safe, short, sharp, very unpleasant shock is felt resulting in a very effective deterrent. **Any attempt to breach the fence generates an immediate alarm.**



Safe, Secure System

All Electro-Fence™ Controllers are manufactured to exceed worldwide standards: BS EN ISO 60335-2-76 and BS1722 part 17. Electro-Fence™ controllers have an impeccable safety record. The high voltage pulse is of less than one thousandth of a second in duration.

To ensure absolute security, a Controller continuously monitors the Electro-Fence™ for different types of attack and generates an alarm when pre-programmed conditions are met.

The Ultimate Security Response

Electro-Fence™ can be used as a stand-alone fence or attached to an existing perimeter fence and readily interfaces with standard security equipment. Electro-Fence™ includes as standard many additional features and enhancements not found in any other similar products, such as Adaptive Alarm Threshold, Pre Alarms, Bipolar outputs and it is also simple to operate.



Typical Installations

The Electro-Fence™ system can be installed on any fence or wall of at least 1.8m high or if it is inside a fence or wall it can be free standing.



▲ Chainlink



▲ Palisade



▲ Weldmesh



▲ Freestanding



▲ Walltop



▲ House Walltop

The sides and roof top of buildings are protected with an 11 wire Electro-Fence™.

Where the top of a brick wall or the edge of a roof require protecting, the use of 1 metre high sections using 11 wires is recommended and is constructed the same as for a fence.



Elements of the System

HV/LV Electro-Fence™ Controllers

Controllers are available in single, dual or six zone types which are fence-mountable. The Controller continuously monitors for different types of attack.

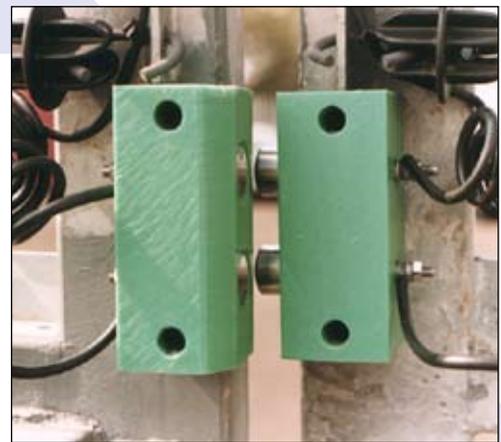
- 1. Shock Monitoring** - when a predetermined number of shocks have been administered to an intruder, an alarm is generated.
- 2. Voltage Monitoring** - if intruders attempt to reduce the voltage, an alarm is generated.
- 3. Cut Monitoring** - if intruders attempt to cut the wire, an alarm is generated.
- 4. Short Circuit Monitoring** - if intruders attempt to short circuit either live or earth wires, an alarm is generated.
- 5. Low Voltage Monitoring** - even when the high voltage is switched off the fence wires can still be monitored and generate an alarm if interfered with.



User Operation and Control

The Electro-Fence™ system can be monitored and controlled via LCD keypads linked to an intruder alarm panel or it can be controlled from a PC using the Multisys® Security Management System.

Alarms are shown on maps of the site and all zones can be controlled from the PC. The voltage on each section of the fence can be displayed on the PC in real time. Full details of the Multisys® Security Management System are available on request.



The Fence

The Fence - Wires 95mm apart are attached to steel galvanised posts spaced approximately 3 metres apart.

- ◆ **The 3 metre high system has 32 wires.**
- ◆ **The 2.4 metre high system has 25 wires.**
- ◆ **The 1 metre high system has 11 wires.**

Posts - All posts are hot dip galvanised to BS EN ISO 1461. The corner and straining posts are dimensioned at 5 x 25 x 25mm and intermediate posts at 2 x 25 x 25mm. Use of the different post lengths ensures that there is a minimum of 600mm Electro-Fence™ protruding above any existing fence.

Insulators - On a 3 metre fence, 32 low loss insulators are fitted at 95mm intervals. All APS low loss security and end strain insulators are resistant to ultra violet and are coloured black for maximum U.V. resistance.

Gates - Gates, which are normally the weakest point in a system, are also protected with Electro-Fence™. The single leaf gate, up to a span of 4 metres, uses a single section. Both gates have a high voltage contact fitted which will activate the alarm on the gate being opened.

Line Wires - High tensile steel ultra galvanised 2.5mm wire is used for all conductors and comes in coils of approximately 650 metres. The wire is tensioned to 20kg between end posts.

Connecting Cables - All high voltage cables are insulated galvanised steel wire with a U.V. resistant black polythene insulation.

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