

## ELECTRO-FENCE™

### DETECTS AND DETERS WOULD-BE INTRUDERS

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

High tensile wires are spaced at a distance of 95mm apart and a safe, high voltage pulse is sent down alternate wires every second.

The wire alternates between live and earth.

Intruders coming into contact with the high tensile wires feel a short, sharp, shock deterring them from climbing or cutting the fence.

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



All Electro-fence™ Controllers have been manufactured to exceed European standards: EN61011/1; EN61011/2. Electric fence controllers have an impeccable safety record. The high voltage pulse is of less than one thousandth of a second in duration.

### INTRUDER DETERRENT AND DETECTOR

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.***



### 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 and also simple to operate.

### UK MANUFACTURER & SUPPORT SERVICES

Electro-fence™ is manufactured in the UK by Advanced Perimeter Systems Ltd and our expert team is always on hand to give advice and support where needed.

## ELEMENTS OF THE SYSTEM

### ELECTRO-FENCE CONTROLS

Controllers are available in single or dual zone which are fence-mountable. There is no requirement for H.T. lead-out cable ducts. A six-zone Controller is available for larger installations. The Controller continuously monitors for different types of attack.

1. **Shock Monitoring** - when a predetermined number of shocks have been administered to a would be 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.



The Electro-fence™ system can be broken down into zones so that the Controller immediately recognises the attempted entry location. In the event of power failure, uninterrupted power is supplied by battery back-up system.



## 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.**
- **2.4 metre high system has 24 wires.**
- **The 1 metre high system has 11 wires.**

**Posts** - All posts are hot dip galvanised to British Standard 729. The corner and straining posts are dimensioned at 5 x 25mm and 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 drums of 650 metres approximately. The wire is tensioned to 50kg between end posts.

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

## ROOF AND WALL TYPES

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.

## INSTALLATION

All Electro-fence™ installations are carried out by an approved installer and on completion, Advanced Perimeter Systems Ltd. inspect the system and issue a Certificate of Completion.



## WARRANTY

A 12 month warranty is given on all system materials for normal wear and tear.