



GENERIC SPECIFICATION

SYSTEM DESCRIPTION

The system shall operate by means of a sensor cable, which is attached to the perimeter fence. In the event of an intruder attempting to force entry, the vibration caused by the intrusion will be detected by the sensor cable and passed to the analyser. The analyser converts the vibrations into alarm and audio verification signals, which are sent back to the central control.

SENSOR CABLE

The sensor cable shall have a solid state 2 conductor coaxial construction. The sensor cable shall be able to detect movement with equal sensitivity along its entire length. The sensor cable shall have an outside diameter of 2.8mm, a half life sensitivity of 40 years and a maximum zone length of 300m. The operating temperature shall be -40 degrees centigrade to +85 degrees centigrade. Repair of the sensor cable shall be achieved quickly by the use of a screened jointing box.



SIGNAL ANALYSER

The analyser shall process the signals received from the sensor cable in terms of frequency, amplitude and time. The analyser shall have an Automatic Environmental Control, which is used to minimise nuisance alarms caused by wind, rain or other climatic conditions.



The analyser shall monitor the integrity of the sensor cable by monitoring a resistor fitted to the remote end of the sensor cable. A tamper alarm shall be generated if the resistance of the sensor cable either increases or decreases by 20% from the value of the end of line resistor.

The analyser shall have the following internal control to facilitate adjusting the analyser settings. All controls shall be digital switches.

- ◆ A.E.C. – ON/OFF
- ◆ GAIN 1, GAIN 2
- ◆ IMPULSE COUNTER
- ◆ TIME WINDOW
- ◆ SENSITIVITY

FLEXIGUARD

Flexiguard™ Fence System

The analyser shall have the following internal indicators to facilitate setting up and testing.

- ◆ ALARM ACTIVATED
- ◆ TIME WINDOW
- ◆ CABLE OPEN CIRCUIT
- ◆ CABLE SHORT CIRCUIT
- ◆ IMPULSE DETECTED
- ◆ A.E.C. OPERATING

The analyser shall be capable of operating from a supply of 15 to 21 VDC with a power consumption of 15 MA. Alarm and tamper outputs shall be in the form of normally closed dry contacts.

An audio output shall be available for alarm verification. The output level shall be IV peak to peak into an impedance of 600 ohms.

All electronics should be protected against the environment by means of a conformed coating and being housed in a metal enclosure of IP66 rating.

SENSOR CABLE INSTALLATION

The sensor cable shall be attached to the fence using ultra violet resistant cable ties. For extra protection the sensor cable can be housed in a 6mm-diameter stainless steel roundlock flexible conduit.