

D - Taut Wire Intrusion Detection System

D-Fence's D-Taut Wire presents the latest technology in Taut Wire systems. Whilst the D-Taut Wire is considered as one of the top leading security perimeter systems, it not only provides a physical barrier against intruders but also a sophisticated electronic remote control system which indicates the precise location of any intrusion attempt.

The D-Taut Wire is installed around Airports, Prisons, Borders, Nuclear Plants and other high sensitive facilities.

The D-Taut Wire system is based on sensor posts, where each one contains an electronic processor unit which converts analog signals from the wire sensors installed on the posts, into digital signals. The processor unit analyses the signals from the sensors and serves as a local signal processing and analyzing system at the level of the post. This electronic unit also communicates with the central computer at the control station, and controls a dry multi-purpose contact. Any attempt of cutting through, switching off the wires, climbing on the taut wires or on the fence posts or corner posts, dismantling any of the systems components, will immediately cause an alarm at the control unit, and will activate all connected external devices such as: CCTV, VMD, lights, sirens, GSM mobile systems, pagers, etc,

The D-Taut Wire system can use any type of wire such as regular wire, double braided wire, barbed wire, aircraft wire, etc. It's possible to create two parallel taut wire screens without the need for additional posts.

Due to terror attacks and global warning, the D-Taut Wire is installed nowadays around sites which had so far passive fences only. A quick integration is required in order to connect the D-Taut Wire system with different existing fences such as palisades,



- Practically zero false alarms
- Long intervals between field maintenance
- Easy installation
- Integration with all types of fences
- No need to install anchor posts
- Self adaptation
- Withstands all environmental conditions



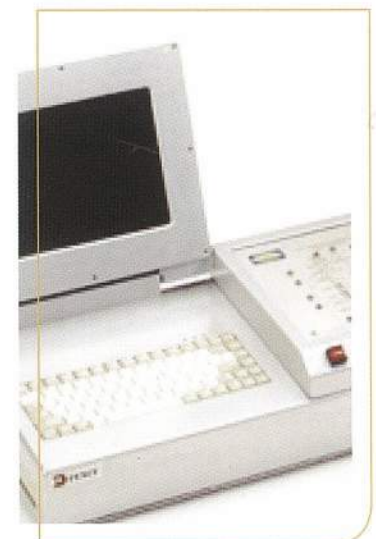
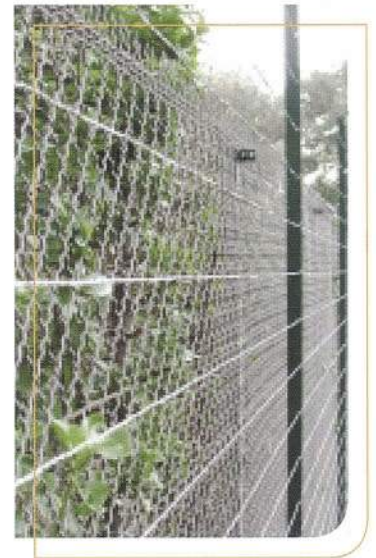
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welded mesh, chain link, concertina, power fence, walls and more. Due to the system flexibility, you can easily upgrade your perimeter system to enjoy the benefits and better protection of the D-Taut Wire system.

The D-Taut Wire system operates equally well in all weather conditions, from desert temperatures rising above 72°C down to -25°C. The D-Taut Wire system has a self adjustment processing unit which calculates the pressure on the system wires. Therefore, the D-Taut Wire system has practically ZERO false alarms. The wide dynamic range of the D-Taut Wire system sensors allows for longer intervals between maintenance operations. The rugged sensors contain no electrical contacts, rubber or moving parts, so system maintenance is very rare.

The D-fence computerized control center (CCC) is based on industrial board spec PC104. High scalability and redundancy is achieved by using hard/flash disc, CCD display – tube screen and dual communication ports for each transmission/reception line. Integrated in this unit is a geographic map of the protected site. This unique user-friendly Control Unit allows operating the entire system by using 3 push buttons only.

The D-Fence CCC supports up to 60 sensor posts and the control unit displays the status of each post in the system and indicates to the operator whether the system is secured, alert or if there's no communication. The CCC displays the state of the sensors on one post as selected by the operator. A number ranging from 0 to 255 shows the stress on each sensor and if it's in Secure or Alert mode. The control unit has an illuminated map which illustrates the perimeter system, divided into zones and each zone has 2 designations: Secure or Alarm. The map is connected to the control unit through RS232 and the control unit updates the map every 1/2 second. Other salve maps can be added to the main map, which is operated with 3 buttons only:



Taut wire - home



Taut wire - industrial



Test, Alarm and Reset.

A printer can be connected to the system in order to print the status of the system and also to print every event with indication of date, time and zone number, sensor number and direction.

Any attempt of cutting through, switching the wires off, climbing on the wires or on the fence posts or dismantling of any of the systems components will immediately cause an alarm at the control unit, and will activate all connected external devices.



Physical Description

Fence Length	Practical limitation
Fence Height	According to customer specification
Length of system zone	Not exceeding 100 m

System Unit Processor

Unit dimensions	250x55x25 mm (L*W*H) 200 Gr. (weight)
Processing unit	Up to 32 sensors per processing unit, or up to 30 sensors with additional connector for a vibration sensor and a fiber optic cable
Deflection force	25 KG of force and above will activate alarm
Dry contact	N.O & N.C. 1A@48VDC
Power supply	12mA@48VDC
Communication Output	RS232

Environmental conditions

Temperature range of operation	+72°C to -25°C (162°F to-13°F)
Storage Temperature	+80°C to -32°C (176°F to-26°F)
Corrosion	All system parts received anti-corrosion treatment according with MIL T 152 all parts are S.S
Humidity	95%
Lightning & electronic trasients	MIL STD 9094
EMI & RFI	According with MIL STD 461, 462

Reliability and Maintainability

False Alarm Rate (FAR)	Less than one per km per three months maximum
MTBF sensor	4.7x10 ⁸ hours
MTTR	30 minutes
Warranty	10 years for the sensor



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