Main Product

- **Security Electric Fence**

**Product Features**

- Differential voltage output technology: every wire has voltage, have the differential voltage between the two adjacent wires.
- LCD or LED indicate the working state and the voltage on every wire of fence.
- High/low voltage switch manually, long-distance equipment auto switch function.
- Short circuit, break and tamper alarm, Self-inspection System for equipment fault.
- Waterproof casing and downward appearance design leading the industry development.
- RS 485 bus control, keypad, computer, network and multiple long distance management solution.
- DC12V, NC/NO dry contact alarm output, can work with other modern security products.

**Electrical Characteristics**

Power supply: AC180V-240V 50Hz
System power consumption: 10 Watt
Operating environment: Temperature: -40 to +50°C
Relative humidity: ≤95%

**Output parameter:**
- Output peak voltage: 5KV～10KV (7.5 kV～15kV)
- Output low voltage: 700～1000V
- Peak current of pulse: <10A
- Pulse duration: ≤0.1s
- Pulse interval time: 1s
- Max quantity of electricity of pulse: 2.5mC
- Max energy of pulse: ≤5.0J
Advantage of using Electric Fence

- The object of electric fencing is to keep bad guy outside protective area by giving electric shock through the charged fence wire. Properly installed and grounded electric fence is an effective, economical way to keep safety.
- Electric fence is a psychological barrier, physical barrier.
- Cost effective.
- Low maintenance.
- Efficient.
Theory of Electric Fence

The shock current travels through the body and into the earth ground where they are standing.

The effect of the shock on the people depends on the amount of shock current, the duration of the shock, and the body weight of the person.
System Diagram

1 Line output
2 Line output
1 Line input
2 Line input
Lightning arrester
Terminal rod
Terminal insulator
Fire-finder
Alloy wire
Pull rod insulator
Extension rod
Grounding wire
Universal terminal
Kable
Protective Ground

System diagram

RS-485
Keypad control solution
**Mode one**: Install on top of the wall
Install the electric fence on top of wall, the height of fence wall should be above 1.8 meters, the wire pole/rod may have welding, clip or buried the three modes, should choose suitable mode according to the fence structure condition.

For example, install at the steel fence, can take the welding, install at the concrete wall, can take buried mode to make sure stable, artistic, may use other modes also.
Installation Mode - 2

Mode two:
The installation attaches on the fence or top or inside, the fence wall directly withstanding the pressure and wire tension, before installation, please make sure the structural strength of the wall, if unreliable, should reinforce in advance.

The metallic conductor wire from the front end of electric fence spacing to the wall should be smaller than 700mm.
Installation Mode - 3

Mode three : stand alone electric fence
Install the electric fence around the building, because the height is above 1800mm, the wire number reaches 8-20, the strength of the wire to the terminal rod/pull rod tensity must be big, hence, terminal rod/pull rod must have enough strength, and the embedment must be stable. If the soil is solid, may directly bury the wire of terminal rod and pull rod ends to underground 60cm to do fixed. If the rigidity of terminal wiring rod is insufficient, should increase the support rod.
Although the middle pull rod does not withstand the density of wire, but must support the pressure of multiple wires. Therefore, also needs to install it stable. May take buried mode installation.
Accessories

- Keypad
- Terminal Rod Insulator
- Pull Rod Insulator
- Tensioner
- Alloy Wire
- High Voltage Wire
- Universal Pedestal
- Middle Pull Rod Fixation
- Siren-Speaker
- Warning Lighting
- Lightning Arrester
- Fence Warning Signs
- Luminated Signs
- Wire-Wire Linker
- Terminal Insulator Fixed Clip
- Middle Pull Rod
- Terminal Rod
Installation of accessories

- **Rods installation angle:** (the angle with wall)
- According to the site condition and the first party request (0°, 22.5°, 45°, 67.5°, 90°, 112.5°, 135°, 157.5°, 180°) and the inclined direction (inclination angle, camber angle, vertical or horizontal) installation.
- According to the perimeter condition: if resident area, school nearby, suggested by inclination angle or vertical installation, spacious area suggested to install by camber angle, if the height of wall is above 2.5 meters, take horizontal installation.
- According to the protection object: if prevent from outside invasion, suggest camber angle installation, if prevent from interior climbing, suggest inclination angle installation.
Installation of accessories

- **Terminal rod/terminal rod insulator installation**

- Fix the terminal rod insulator on the terminal rod through terminal insulator clip, considering the distance is longer, the pulling strength is bigger, every 100 meters or big corner and divided zone must be set a terminal rod.
Installation of accessories

- **Middle pull rod/insulator installation.** The middle pull insulator assembles on the rod through screws or use pinlock to fix it. Should note the direction of installing, usually every 20 meters to set a middle pull rod.

- **Tensioner installation** The middle tensioner usually hang on the front of electric fence, when install alloy wire, penetrates the wire from the tensioner side's round hole, aim and pass the middle hole, finally gets out from another side round hole. See the Picture. Note, don't make the tight line excessive, heat expanded and cold contracted, it maybe break in winter weather.
Installation of accessories

- Lightning arrester installation
- Firstly fix the lightning arrester on the top of terminal rod, then through the own nuts fixing on the frame, the lightning arrester usually installs on top of pulse energizer, every zone must install two lightning arresters.
Installation of accessories

- **Alloy wire connection**
  - Connect it by wire linker, need connect the lead end to penetrate the wire linker, then use nut to contract wire in the wire linker.

**Warning signs installation**
According to the condition, every 10 meters set as one warning signs.
**Installation of accessories**

**Grounding/earth (3 ---> 2)**

Grounding request: according to “GB/T 7946-2008”, earth principle and weak electricity separated. The electric fence system includes: controller high voltage output earth, lighting arrester earth, protective earth output, the three kinds of earth. High voltage earth and lightning arrester earth can share the same earth, but must separate from protective earth, and the earth pole distance is above 10meters, the earth pole depth of burying is above 1.5m, the resistance value of weak electricity should be below 4Ω, the resistance of high voltage earth should be below 10Ω, the lightning arrester earth connects reliably by square millimeter copper wires.

**Underground wire layout** Electric fence needs underground wire layout, needs the rated voltage 15KV high voltage insulated conductor, penetrate the insulated threading tube. Electric fence underground layout, should avoid high voltage insulated conductor, as the underground is usually moist, it is hard to keep good insulation strength at the tie-in. if tie-in avoidless, should strengthen the tie-in part insulativity, for example, use the Silastic envelope, or change the tie-in above the ground.
Installation Case
Installation Case
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