QUADROSENSE™

FENCE PROTECTION SYSTEM



QuadroSense™ is Hungarian-produced special fence protection system, which provides linear protection. The main part of the system is the control unit, to which vibration sensitive TB cables are connected. The **TB cable** is a special triboelectric cable, which should be attached with cable tie to the fence to be protected, ideally in a saw- toothed or straight line pattern.

One end of the cable is connected to the control unit, and the other end is terminated by a resistor. The vibration caused by an intruder's motion generates friction in the cable elements, thereby inducing capacity. Depending on adjustable settings, this capacity change can generate an alarm.

The maximum lenght of the vibration sensitive cable is 250 m. Use of this cable is recommended only on a fence which can transmit vibration to the cable. It is also recommended where an intruder can cause cable vibration directly. For example, it is recommended under the ground to prevent digging, or on top of a concrete wall, where an intruder can cause direct cable vibration while attempting to climb over it.

The starting point of the vibration detection cable can be extended up to 500 m away using **DC cable**.

The vibration detection cable is passive and doesn't require an additional power supply. The operating parameters can be individually configured by the connected remote PC software.

The control unit has four alarm relay outputs to transmit an alarm signal, and sends system status information via a RS485 output. The housing of the control unit offers IP65 protection.

MAIN FEATURES

- 4 INPUT CHANNELS
- 250 M SENSOR CABLE / CHANNEL
- SOFTWARE-CONTROLLED SETUP
- PLUG AND PLAY INSTALLATION
- 255 DIFFERENT NETWORK ADDRESSES
- 4 OC ALARM OUTPUTS
- 1 TAMPER OUTPUT
- OPERATION IN ALL WEATHER CONDITIONS



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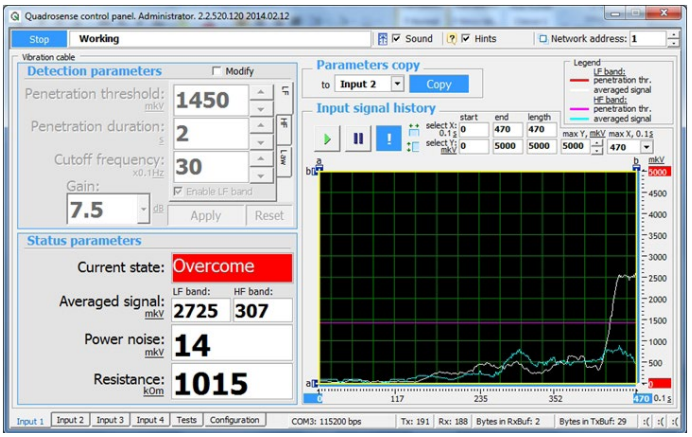
SOFTWARE-CONTROLLED SETUP

The **Quadrosense control panel** is a free PC software to perform settings and adjustment of the control unit's features.

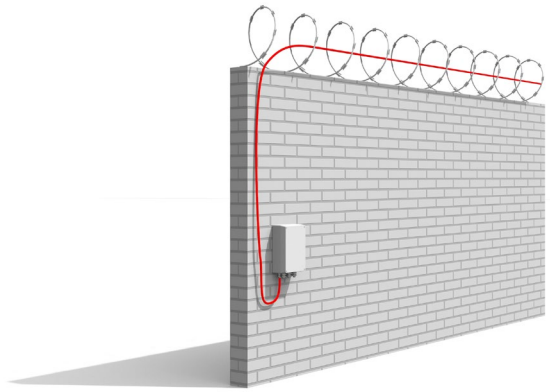
The software has a simple, user- friendly graphical interface, which makes the setup very easy and fast.

It can be downloaded from Umirs Europe's website:

www.umirs.eu



TYPICAL INSTALLATION MODES OF THE TB CABLE

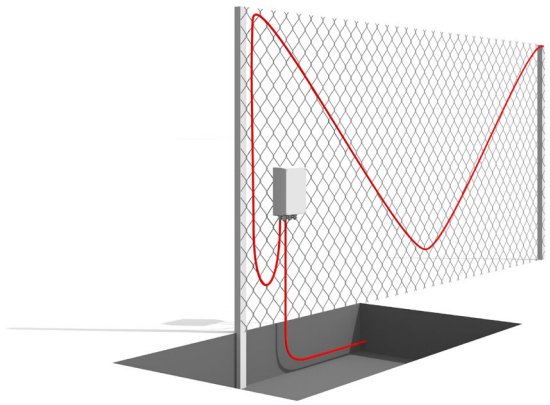


STRAIGHT LINE

This installation mode is suggested on more stable fence types like welded mesh fences, but also applicable to concertina wires.

Fence types:

- Welded mesh fence
- Concertina wire

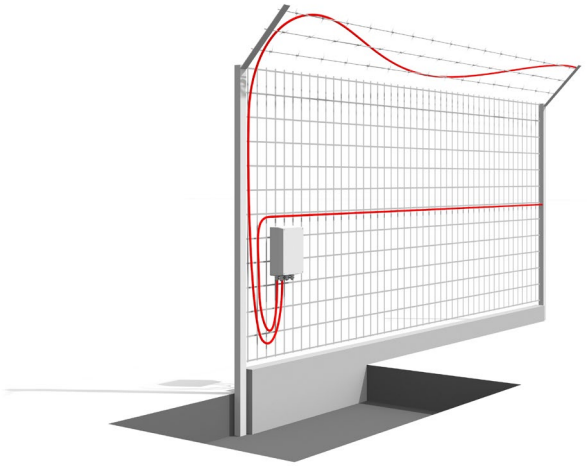


SAW-TOOTHED LINE

This installation mode is suggested on lighter fences like net fence or wire fence. Important note, this installation method requires at least 1,6x more sensor cable.

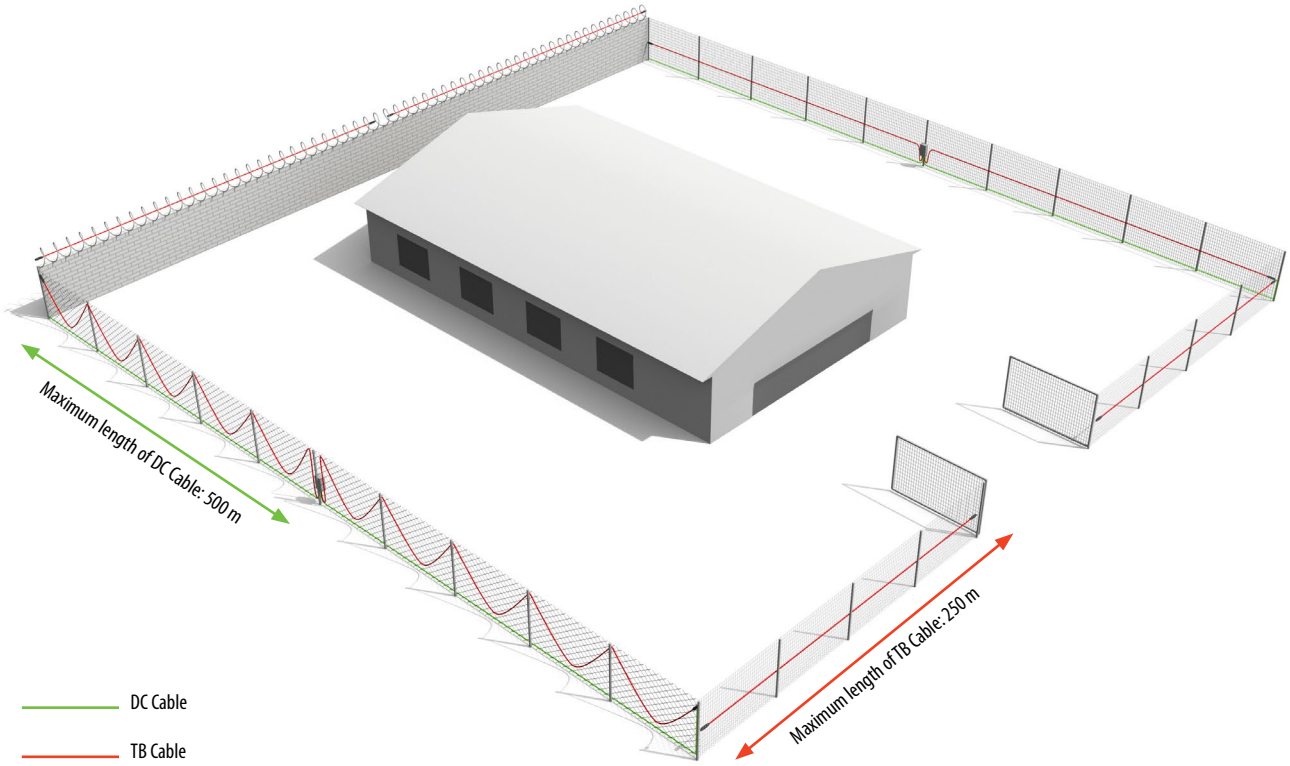
Fence types:

- Chain link fence
- Welded wire fence
- Barbed wire fence



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TYPICAL QUADROSENSE CONFIGURATION ILLUSTRATION



DEVON SUPERVISORY SYSTEM

QuadroSense™ fence protection system can be integrated into **DEVON**, the new supervisory system of Umirs Europe.

With this new map-based software we are capable to monitor different type of sensors and detectors, receive alarms and faults, control PTZ cameras or other security devices through the integrated I/O modules.

Maximum 255 Devon I/O modules can be connected to the PC server on USB, RS485 or ethernet interface Each I/O module has 8 in and 8 output contact, but this number can be increased by 2 relay cards, with 4-4 relay outputs.



ACCESSORIES

TB CABLE

TB cable is the other main part of the Quadrosense fence protection system. This sensor cable is a special Triboelectric cable, which detects the vibrations of fence caused by intruder.
Unit: 250m



DC CABLE

DC cable is a special signal transmitter cable. It is capable to extend the starting point of the sensor cable with up to 500 m.
Unit: 100m



T-TUBE

Junction tube. Applicable to connect TB and DC cables or TB cables and End line units. IP68



CT

Plastic, outdoor, UV-protected cable tie for fixing the TB or DC cables to the fence. Unit: 100pcs



USB/RS485 WP2

USB/RS485 converter is used for programming Quadrosense processing unit with Quadrosense control panel software.

Waterproof casing.



TECHNICAL FEATURES

Sensor cable lenght/channel	250 m
Input channels	4
Power supply	9-36 VDC
Current consumption	180 mA
Network addresses	255
Communication	via RS-485
Software languages	English, Russian, Czech, Portuguese
Outputs	4 OC alarm, 1 tamper output
Operating temperature	-40 – +65 C°
Housing	Aluminium
Protection	IP 65