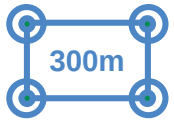
Perimeter Intrusion Detection

Mikro**Tek**

Mikro**Tek** Key Advantages



One analyzer - up to 300m detection range!

A single Mikro**Tek** analyzer can secure up to 300m of fence depending on the type of structure to be secured.

Excellent intrusion detection performance!

Over 30 years of industry experience have perfected our detection technologies so that intrusion related and non-hostile activities are reliably differentiated.

Easy to set-up!

The Mikro**Tek** is designed to be easy to install. The set-up routine is done in minutes without any software required.

Easy integration with CCTV and 3rd party software!

Mikro**Tek** works very well with CCTV. Integration into alarm and security management systems is straightforward via dry relay contacts.

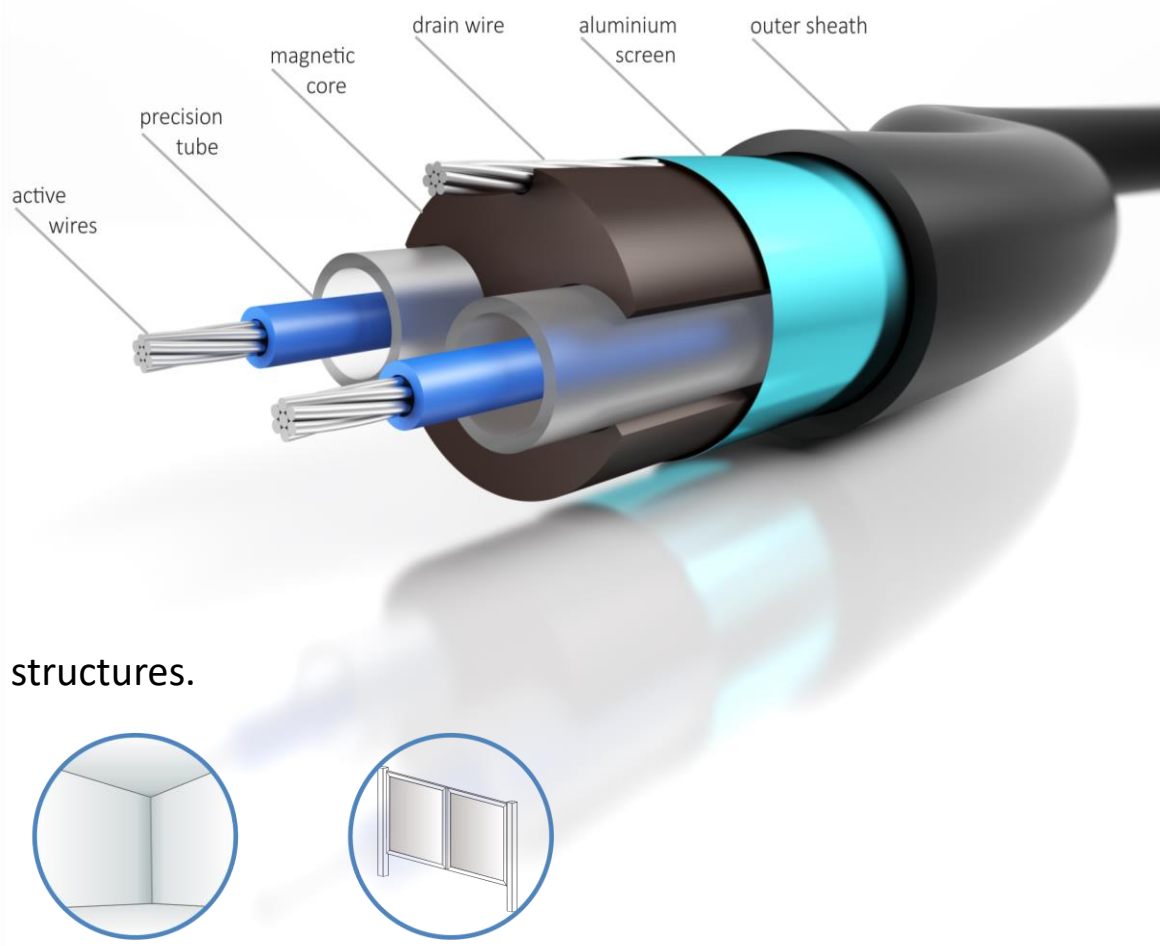
Vibra**Tek Plus** – The New Benchmark

The best PID sensor becomes even better

Vibra**Tek Plus** is the newest innovation of the Vibra**Tek** sensor family. Compared to the previous Vibra**Tek** sensor generation the sensitivity could be further increased by 25%.

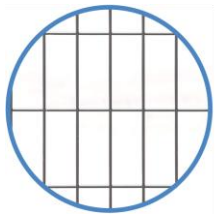
Best-in-class intrusion detection

Minimal intrusion-related activity detected by the Vibra**Tek Plus** sensor will generate a signal typically 1000 times greater than the background noise. This unmatched signal-to-noise ratio is the reason for an exceptional intrusion detection.

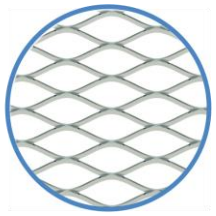


Protects various types of perimeter structures

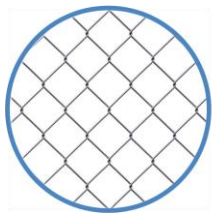
Detects intruders climbing or breaking through fences and other perimeter structures.



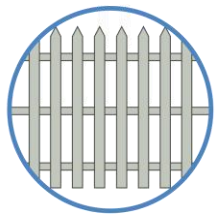
Welded mesh fence



Expanded metal fence



Chain link fence



Palisade fence

Walls, floors and ceilings

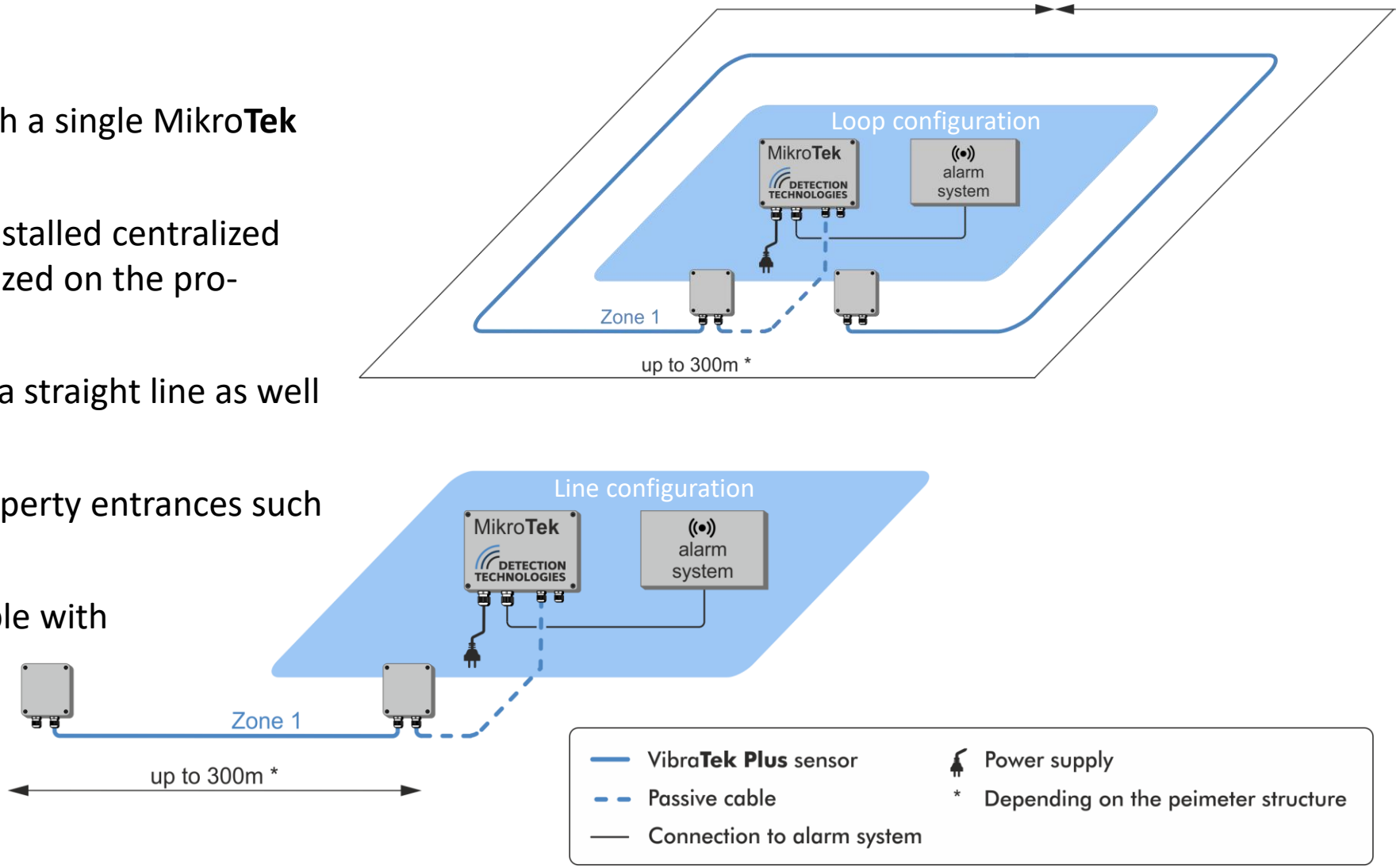
Doors, gates

How Vibra**Tek Plus** Works

- The Vibra**Tek Plus** sensor will be installed along the perimeter boundary (fence, wall, gate, railing, etc.)
- Breaking through (cutting, sawing, burning) or climbing over the protected structure inevitably leads to vibrations
- These vibrations are coupled into the Vibra**Tek Plus** sensor and subsequently converted to an electrical signal
- The electrical signal is an very accurate representation of the mechanical energy which caused the signal
- The Mikro**Tek** module analyzer analyzes the electrical signals in real-time and notifies intrusion related activity

MikoTek

- Up to 300m detection range with a single Mikro**Tek** analyzer
- The Mikro**Tek** analyzer can be installed centralized (e.g. control room) or decentralized on the protected structure (e.g. fence)
- Sensor cable can be installed in a straight line as well as in a loop
- The sensor cable can secure property entrances such as swing gates
- Flexibly interrupt the sensor cable with non-protected segments where no protection is needed (e.g. building facade)



Our PID Solutions

DETECTION TECHNOLOGIES
PROTECTING PERIMETERS WORLDWIDE

	VibraSector	DuoTek	UnoTek	MikroTek	VibraFon Dual	VibraFon Single
Sensor Type	sensor cable	sensor cable	sensor cable	sensor cable	32 seismic sensors	16 seismic sensors
Protected structure	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	walls (brick) gates	walls (brick) gates
Range with one analyser [1]	up to 1,000m [2]	up to 600m [2]	up to 300m [2]	up to 300m [2]	up to 160m	up to 80m
Max. number of alarm zones	98	2	1	1	1	1
System configuration	via software	via software	via software	via rotary knobs	via software	via software
Audio alarm verification	yes	yes	yes	yes	yes	yes
Door / gate detection	yes	yes	yes	yes	yes	yes
Tamper detection	yes	yes	yes	yes	yes	yes
Integration of external contacts (e.g. door or gate contacts)	4	4	2	-	4	2
Ways of integrating into CCTV and management systems	Dry relay contacts: - 1 x global alarm - 1 x global tamper - up to 100 x zone alarm Ethernet: - TCP / IP - UDP	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper
Interfaces	1 x Ethernet (RJ45)	1 x USB	1 x USB		1 x USB	1 x USB

[1] analysers can be connected to achieve higher ranges

[2] depending on the type of perimeter struckture

Fence type	Approximate maximal zone length
Plastic coated chain link	150 metres
Galvanised chain link	200 metres
Welded mesh	275 metres
Expanded metal	275 metres
Palisade	300 metres