



MikroTek Detection System

Powered by Detection Technologies Limited

MikroTek analyzer

The MikroTek analyzer combined with VibraTek Plus sensor cable provides the next generation in cost effective stand-alone perimeter intrusion detection.

MikroTek is a single zone analyzer that has the ability, to monitor attempts to cut and/or climb on a perimeter fence of up to 300m (984ft) in length, multiple analyzers can be used together to provide solutions over longer perimeters.

The MikroTek analyzer features on board configuring for easy calibration of detection for cutting and climbing attempts whilst providing minimal false alarms.

Onboard audio output allows for connection of an external audio device to provide direct audio feedback during configuration

The MikroTek analyzer is housed in a tamper protected weather tight enclosure providing a range of installation options from directly on the fence line to internally inside a building.



VibraTek Plus sensor cable

VibraTek Plus is a fourth-generation vibration-sensitive linear sensor cable, specifically designed to provide high performance intruder detection capability when deployed on fences or other barriers used to define the perimeter of a secure site. The development of VibraTek Plus draws on knowledge gained over more than 25 years operational experience of intrusion detection system design, and in particular, from the highly specialised external perimeter market sector where vibration sensing technology applied to fence structures constitutes by far the most widely used and cost effective method of intrusion detection.

VibraTek Plus is a high performing, yet easy to install sensing device, directly attached to fences or other perimeter barriers using cable ties, cable clips, or by installation in conduit attached to such barriers, so that mechanical vibration generated as a result of hostile activity is coupled into the sensor device and converted to representative electrical signals.

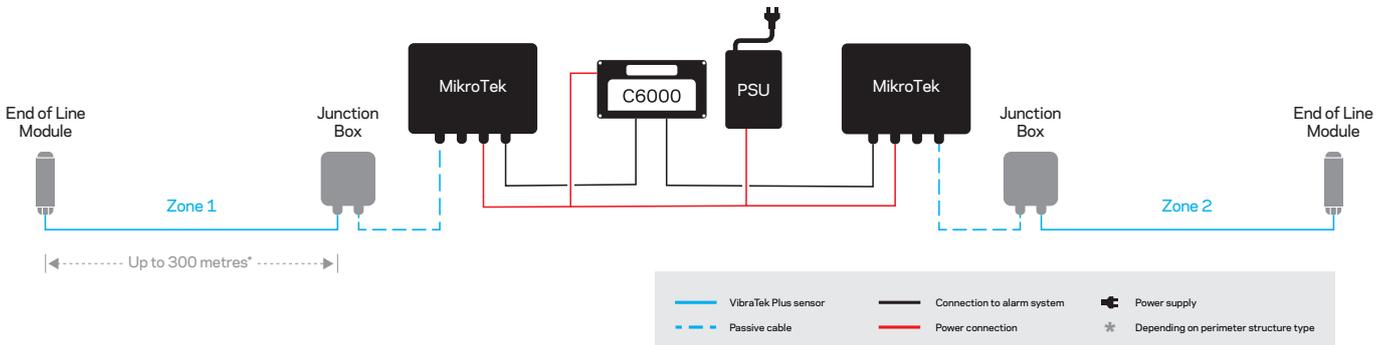
The VibraTek Plus sensor cable is designed to operate seamlessly with the MikroTek analyzer.



 **DETECTION
TECHNOLOGIES**
PROTECTING PERIMETERS WORLDWIDE

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System Architecture



Technical Specifications

MikroTek	
Sensor Type	Sensor cable
Protected structure	Fence (metal & wood), walls/ceilings (metal), gates
Range with one analyzer ¹	Up to 300m
Max. number of alarm zones	1
System configuration	Via rotary knobs
Audio alarm verification	Yes
Door / gate detection	Yes
Tamper detection	Yes
Integration of external contacts (e.g. door or gate contacts)	-
Ways of integrating into CCTV and management systems	Dry relay contacts: 1 x Zone alarm 1 x Zone tamper
Interfaces	-

¹ Analyzers can be connected to achieve higher ranges
² Depending on the type of perimeter structure

VibraTek Plus	
Cable Diameter	8.0 mm
Sheathing	Black, UV stabilized, Low Density Polyethylene (LDPE)
Active Elements	Tinned copper conductors with high molecular weight fluoro-polymer sheathing
Electrostatic Shield	Aluminium/mylar composite tape
Operating Temperature Range	-40°C - +90°C
Relative Humidity Tolerance	100% condensing
Weight	93 g/metre
Ultimate Tensile Strength	1kN
Minimum Bend Radius	95 mm

Electrical Specification	
Bandwidth (-3dB)	10Hz - 5.2 kHz
Typical Signal Voltage Level	1mV
Active Element Impedance	8 ohms per 100 metres
Static Magnetic Field Strength	250 Gauss (0.025 Tesla) minimum
Electrostatic Shielding Factor	100%

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

GALLAGHER WORLD HEADQUARTERS

Kahikatea Drive, Hamilton 3206
 Private Bag 3026, Hamilton 3240
 New Zealand

TEL: +64 7 838 9800
 EMAIL: security@gallagher.com



REGIONAL OFFICES

New Zealand.....+64 7 838 9800
 Americas.....+1 877 560 6308
 Asia.....+852 3468 5175
 Australia.....+61 3 9308 7722
 India.....+91 98 458 92920
 Middle East.....+971 4 5665834
 South Africa.....+27 11 974 4740
 United Kingdom / Europe.....+44 2476 64 1234

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