

Fence mounted detection systems

Effective and accurate
intrusion detection

Experts in perimeter protection



Although perimeter fencing and gates provide a line of defense to a given site or premise, adding a PIDS complements and greatly increases the overall effectiveness of the perimeter security. Protect and secure your site with Heras' fence-mounted Perimeter Intrusion Detection Systems (PIDSs).

The business benefits of having a Heras PIDS include:

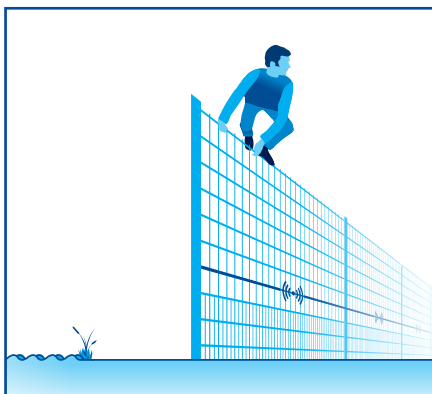
- An early warning of an intrusion attempt
- Enables a more timely security response
- Lower level of claims due to injury or theft and also minimise associated bad press
- Seamless integration with your SMS (Security Management System) to enhance overall site security
- Reduce the costs of your onsite security resources
- Peace of mind, protect business assets and staff

Heras offers an innovative range of PIDS products which are designed to be used on virtually any type of fence. The highly sensitive microphonic sensor cables (GeoMic), or advanced point sensors (GeoPoint), can detect many types of intrusion attempt, from filing and cutting to climbing. The GeoMic and GeoPoint offer versatility as they can also be wall or ceiling mounted.

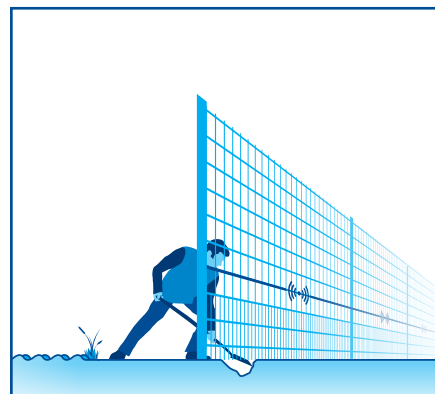
The following situations are therefore detected:



Through



Over



Under



Why invest in a PIDS

A PIDS can counter act and help prevent potential business risks including:

- Illegal entry to site for the purpose of theft
- Vandalism and low-level nuisance due to trespass
- Preventing wildlife from entering the site and causing contamination and/or damage
- Protecting staff & visitors from the above
- Insurance claims & reduce liability

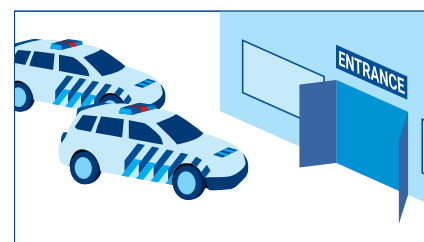
The PIDS enhances the security of your site by giving an early warning alarm to an intrusion attempt. By combining a PIDS with your fence, entrance and access control, you create a dependable, total perimeter protection solution.

Upon an intrusion attempt, the system picks up signals from the fence, then the associated hardware analyses these and determines the nature and validity of the intrusion. Upon a

confirmed intrusion attempt, the system will then produce the appropriate output to the alarm system. This early warning gives the security team more time to respond to the intrusion attempt.

The system is optimised to minimise false alarms and to ignore most weather effects and background noise events, such as traffic, which can cause unwanted alarms.

Our fence-mounted detection solutions are designed to seamlessly integrate into the front-end security management system (SMS) and the other security components on site. With many configurable features, the detection systems will enhance the overall security system operation and functionality.



Finding the right solution

Each and every location has individual site-specific security requirements and environmental conditions. By understanding the bespoke needs, Heras will discuss and advise on the most appropriate solution, utilising one of two innovative technologies:

	Heras Microphonic System (GeoMic)	Heras Point Sensor System (GeoPoint)
Key benefits	<ul style="list-style-type: none">• Cost effective for large zones• Backwards compatible with sensor cable / systems• No power needed on the fence	<ul style="list-style-type: none">• Multi-sensor detection capability• Flexibility• Zonal configuration• Individual sensitivity adjustment• Large detection zone/sensor• Redundancy option

Typical applications for both systems:

- Commercial
- Industrial
- Power Plants
- High Security
- Ministry of Defence
- Government
- Military
- Critical National Infrastructure

Use on:

- Chain link
- Welded mesh
- Swing gates
- Bar fencing
- Security rated welded mesh
- Walls and roofs

Both systems ensure effective and accurate intrusion detection, with low false and reduced unwanted alarm rates. In certain circumstances a mixture of both technologies could be used to give the optimum detection system.

Heras Microphonic System - GeoMic

The Heras Microphonic System (GeoMic) comprises a microphonic sensor cable and an associated analyser. The sensor cable is securely fixed to the fence fabric and any noise that is generated by an intruder attempting to climb or cut through is transmitted through the structure.

The sensor cable works like a microphone, it effectively ‘listens’ to sounds along the fence line and relays these to the analyser. This unit amplifies, filters and analyses the sounds then the advanced evaluation algorithms determine if an alarm should be generated. The GeoMic Pro in addition, has double the sensor range to cover a greater zone area, therefore being more cost-effective and it has twice the amount of monitored inputs and relay outputs so it can integrate with more third-party security equipment.



Benefits

- Accurate detection of cutting, sawing and climbing
- High sensitivity (POD) with minimum false alarms (FAR) and minimum unwanted alarms (NAR)
- Quick and easy set up
- Detection zones up to 200 meters
- Low total cost of ownership (TCO)
- Simple integration into third party alarm systems



Heras Point Sensor system - GeoPoint

GeoPoint uses a compact and advanced point detection device to capture structure-borne noise. The system can be optimised to detect a bespoke combination of the sensor inputs, to generate an alarm on specific types of intrusion, for instance a ladder intrusion attempt. Because each point sensor captures location, tilt, movement, sound, and temperature, the analysis of signals from multiple sensors provides a broad range of detection possibilities.

By deploying multiple point sensors, a fence can easily be divided into distinct sectors/zones which are set up with the associated camera system to enable the exact view of the intrusion attempt. Each of these distinct zones can be set up with individual sensitivity and alarm response characteristics, as there may be variances in fence fabric or environmental conditions on the site. This minimises the risk of false alarms and maximises intrusion detection capability. GeoPoint is not limited to fence lines only: it can also be used to bring smart detection to critical assets inside the perimeter. The pro version communicates via an IP network and is completely scalable, which is ideal for large sites and those that may grow and expand in the future.



Benefits

- Accurate detection of cutting, sawing and climbing
- High sensitivity (POD) with minimum false alarms (FAR) and minimum unwanted alarms (NAR)
- Quick and easy set up
- Multifunctional sensor with 6 alarm types
- Detection zones of 5 – 12.5 meters
- One single solution can replace multiple systems
- Low total cost of ownership (TCO)
- Optional redundancy configuration
- Seamless integration into Security Management Systems

Providing solutions across sectors

Heras tailors its perimeter protection solutions to many sectors. Naturally, some goals, services and solutions overlap, while others are unique to each sector and each customer. Our sectors include:

- Critical infrastructure & Utilities
- Governmental
- Transport & Logistics
- Manufacturing & Industry
- Public places & Recreation
- Retail & Trade

Work with our experts in perimeter protection

The security of each and every site is often a challenge for every company as there are so many factors that need to be taken into consideration, but by utilizing our experienced team and the steps laid out in the Heras Security model we are very confident we can provide the best solution for our clients.

We first determine the threat and what valuables you want to protect. Then we describe the scenarios that are relevant to your company. Then we determine together how to prevent these scenarios with the time path analysis. Finally, we choose which measures you can take to achieve this.



Service and Maintenance

The continuity of your business is our top priority. Once your bespoke security system is installed, it is equally important to protect and maintain this investment. Offering a full end-to-end service package Heras has designed the following service solutions in order to provide you with optimum protection:



These service solutions can also be customised. The benefits of having a service and maintenance package with Heras are:

- Ensure compliance with local safety laws
- Extend the lifespan of your installation
- Reduce the risk of disruptions or unsafe situations
- Cost savings in the longer term
- Ensure your perimeter protection operates to optimum performance

We would be more than happy to help you with any of your perimeter security challenges. For more information please contact us at heras.co.uk/contact.

