

REAL-TIME ALARMING

FOR NATURAL HAZARD BARRIERS

Every second counts when a natural disaster has struck. Our digital monitoring solution will provide you with that extra time needed for a quick response.

SAFE. SIMPLE. SMART.

The ImpactSentinel system gives an extra layer of safety to your investment in preventative measures. Easy to install and with little to no maintenance. One system for all your monitoring solutions.



Be informed at all times

The ImpactSentinel is an intelligent wireless sensor alarming and monitoring system, which can be employed for a variety of applications for real-time surveillance. The system informs the end user of hazardous disasters such as landslides, avalanches and rock falls.



RAILWAYS, ROADS, HYDROPLANTS, PUBLIC THOROUGHFARES, BUILDING SITES, REMOTE & ISOLATED LOCATIONS.



ADVANTAGES of the ImpactSentinel system

With its simple approach and versatility, the ImpactSentinel system is an economical solution to monitoring hazard barriers. This reliable and robust system has been employed worldwide in places of extreme conditions, remote locations and prone risk areas.

Through customisation and add-ons, the system can be tailored to individual clients requirements.

15+ years experience

INGLAS was the first company to introduce electronic monitoring systems for hazard barriers. Now with over 15 years of experience and continuing developments in this field, the system leads the way in real-time alarming and monitoring solutions.

INGLAS aims to provide the highest quality products and services, delivering an elite system that is trusted globally.

REAL-TIME ALARMING

3 STAGES OF REDUNDANCY

ECONOMICAL

COMPACT & ROBUST

LOW MAINTANANCE

FOR ALL INFRASTRUCTURES



The **SENSOR**

Compact, light and robust: approx. 600g and able to withstand over 100G

Housed in a durable aluminium case with high shock resistant parts

Universal mount: suitable for barriers, fences and poles from all manufacturers

Water proof and extreme weather resistant

Temperature range of -20°C to +60°C

Operated with long-life LI-Batteries



Pull-out



Impact Force



Acceleration



Tilt

The sensors are equipped with patented technologies to measure all types of events in hazard barriers.

With the signature **pull-out** mechanism, real-time alarms of major events are possible within seconds.

Additionally the sensors record all **impact forces** through **acceleration** and are outfitted with a **XYZ- tilt** monitor to measure movement over time.

Sensors can be mounted on fence posts as seen on this picture. Alternatively they can also be installed on steel cables and/or break rings.

The system **AT A GLANCE**





The base station processes and evaluates the data and then transmits it to the end user via several possible communication avenues, such as GSM, 3G, 4G, optical fiber or LAN.

The information can reach the end user via SMS, E-Mail, Dashboard, or be integrated into an existing monitoring software.

User INTERFACES

The **Dashboard** is a user-friendly and intuitive application with a simplistic user interface.

This dashboard can be used out of the office and on the go, so when an emergency strikes you are informed real-time, 24/7.

The dashboard gives a top- down approach of your digital monitoring system, from maps to projects, nets to individual sensors.

Alarms, system status and pictures of the event - all the information at your finger tips.

2 The Sensor Actor Module 'SAM' is a tailorable datalog platform, which can be used on its own or interfaced with existing control room software.

With SAM, the ImpactSentinel system can be retrofitted to any existing monitoring networks.





Projects

1

Digital Monitoring System Mountain Railway Company

Welcome back, John Doe Please choose a project below



SAFETY via redundancy

Redundancy is the inclusion of extra components for an additional safety backup, in case of failure in the primary components.

The system can employ three stages of redundancy to ensure efficient coverage and a high level of protection:

1. Monitoring redundancy

The below examples show two typical setups for monitoring redundancy. In these scenarios two sensors are always monitoring each section of a hazard barrier, utilizing their pull-out pin cables throughout the net. Both sensors can then trigger an alarm in case of an event.



2. Network redundancy

Through the use of several base stations/data relays a network redundancy can be achieved as shown in the diagram below. Each sensor relays its data to two or more base station(s) and/or data relays.



3. Communication redundancy

The base station can relay the alarm/data to the end user using several communication avenues. To ensure redundancy, two or more of these options can be utilised. The base station can be outfitted with several telecommunication and physical connections.





System **ADD-ONS**



Video cameras can be used in-situ within our system. They can offer a visual observation of an event and can be a vital tool with the 'fast evaluation and quick response' approach. When an event has triggered the sensors, the camera will automatically switch on. They can also be remotely accessed through the base station for visual inspection.

Additional sensors can

be integrated to detect a variety of conditions, such as **Rain**, **Wind**, **Light**, **Sound**,

as well as observational sensors, such as

Inclinometer, Seismometer and Extensometer.



SYSTEM SETUPS Degrees of coverage and budget

INGLAS ImpactSentinel offers several packages, that can be tailored to individual needs and budgets.

Basic Monitoring system Cost efficient	ImpactSentinel LITE	Monitoring
Real-time alarming Monitoring system Project assessment	ImpactSentinel CLASSIC	((())) Alarming Monitoring
Service package Fully customised 3 stages of redundancy	ImpactSentinel PLUS	((())) Alarming Monitoring

Also available:

Portable & compact All-in-one system in a suitcase

This small-scale system is suitable for use in temporary projects.



CONTACT us

For additional in-depth information about the system and costing please contact us at info@impact-sentinel.com



Your direct contact:

RYAN ANDERSON International Sales ryan.anderson@impact-sentinel.com +49 (0) 7544 90492 98

