IDS-2000

Seismic Intrusion Detection Systems

General Information

The IDS 2000, an advanced geophone seismic intrusion detection systems, offers a reliable, cost-effective solution to intrusion detection needs on different terrain situations. Seismic systems are ideal for protecting utilities, military sites, prisons, refineries, estates, residential, industrial sites or sensitive land areas. The IDS 2000 is easily integrated with complementing security features.

Geophone sensors are placed in or on earth, asphalt or concrete to detect low-level intruder vibrations. The IDS 2000 features detector and discriminator geophone line for superior detection reliability. Detector lines are placed where vehicular traffic is not expected, while discriminator lines are installed near highways, railroads or other sources of vibration.

All signals are processed and analyzed to selectively discriminate between actual intruders and natural disturbances. The seismic signal processors compare signals generated by the geophones to a user-adjustable threshold. As each signal crosses this threshold, it is scanned for timing, count and other criteria. The system also compares detector line inputs to discriminator line inputs to filter out ambient disturbances. When allcriteria are met, the logic system generates an alarm. Detects driving, walking, digging, tunneling, drilling, leaks and other activities. The system can identify intruders in very slow movement in any weathers.
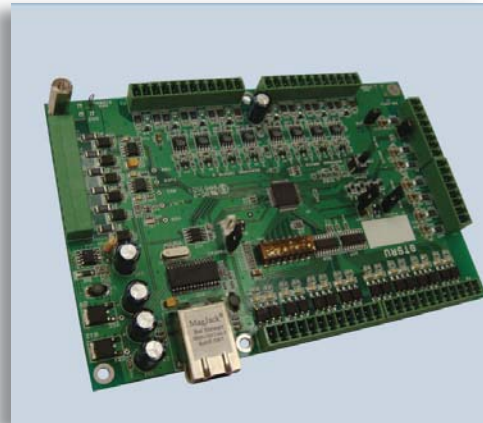
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Discreet Signal IP, RS232, and RS422, wired or wireless. Theory of Operation Seismic signals generated by any intruder, generate electric signal thru the sensor strings, The electric signal amplified and processed by the GTSRU (electronic board). The GTSRU innovative adaptive learning algorithm analyzed the signals to reliable decision.

GTSRU can analyze simultaneously up to 8 seismic channels, integrate sensors from others security systems, fences, indoor or outdoor detectors and automatically activate systems based on definition, up to 16 dry contacts for any requirements (lights, Horn, siren, automatic door locks, siren, SMS, beeper, etc.).GTSRU can communicate IP, RS232, and RS422, wired or wireless.

Computerized control center hardware and innovative software can operate the system to meet any customer requirement.
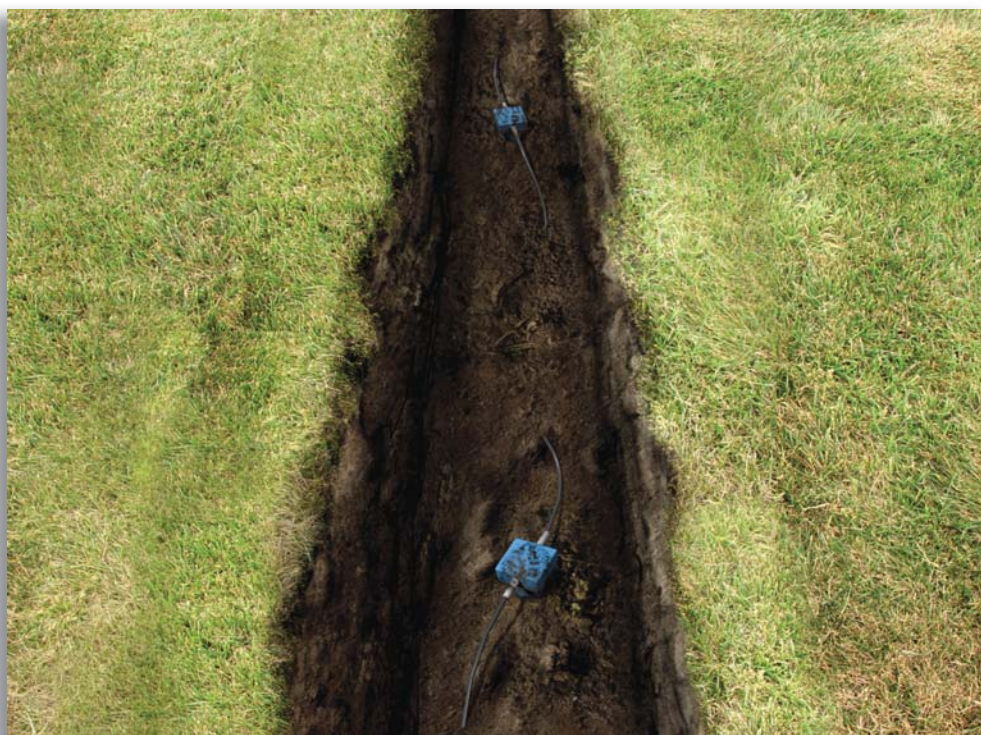
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Reliability

- All-weather system. Unaffected by extreme temperature extremes or weather conditions.

- Solid-state technology utilizes the latest in integrated circuit design and long term reliability.

- A buried system is difficult to locate approach or compromise for increased security.

- Discriminator geophones screen out ambient noises and vibrations to reduce nuisance alarms.

- An optional audio system monitors intruder noise or movement to verify intruder presence versatility.

- Geophone sensors are easily installed in concrete, asphalt or dirt. Sensors are terrain-following, ideal for hilly or irregular sites.

- Modular zoning allows easy expansion of detection zones by simply adding geophones and/or discriminator lines to the basic system.

- Portable systems can protect construction sites or other areas requiring temporary security.

- Outputs provided to drive sirens, turn on lights, and connect to a central station or CCTV
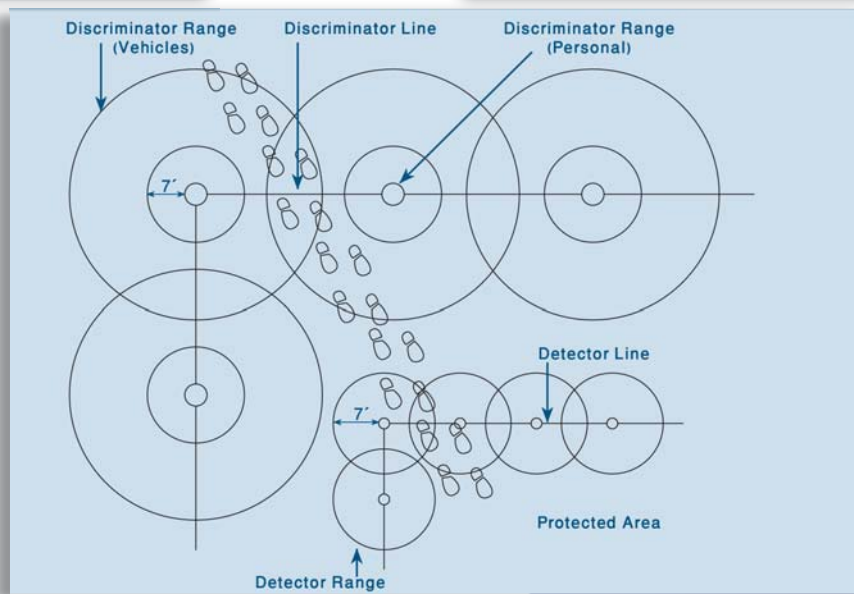
Terrain Types

Lawn Gravel

Gravel

Asphalt

Self-Lockings

Optional Capture Range

Discriminator Range (Vehicles)
Discriminator Line
Discriminator Range (Personal)
7´
Detector Line
7´
Protected Area
Detector Range