telegrafia®

Warning System for Quarries and Open-Pit Mines

Enhance Safety in Quarries with Electronic Sirens

Working in quarries and open-pit mines belongs to the most demanding and high-risk industries. Hazards such as explosions, landslides, falling rocks, and the extreme noise of heavy machinery pose a serious threat to employees' health and lives. A reliable warning system is therefore an essential part of these operations.

Electronic sirens cover the entire quarry area and, with their clear and penetrating sound, can overpower the noise of heavy machinery. To ensure maximum safety, it is essential to inform workers about upcoming explosions and other threats using a loud acoustic signal. Additionally, the ability to automatically connect with detection systems enables an immediate response in case of unforeseen situations.

Effective Worker Warning as a Health Protection Measure

The warning system for quarries and surface mines is designed to protect workers and the public in the event of unforeseen situations such as landslides, explosions, or natural hazards. The fast and reliable dissemination of acoustic and visual warning signals and information enables employees to respond in time and evacuate hazardous areas. Therefore, this system should be an essential safety component for any company managing quarries or surface mines.

Warning Technology in Quarries and Open-Pit Mines

The warning system for quarries and surface mines from **Telegrafia** is based on electronic sirens that effectively inform people about emerging risks. The selection of a specific electronic siren(s) depends on the size of the area that needs to be covered with acoustic warnings. For smaller quarries, the **compact Bono electronic siren** is a suitable choice, while the **Pavian Portable** electronic siren is designed for larger areas or locations where flexibility and mobility of the warning system are required.

Why Invest in Electronic Sirens

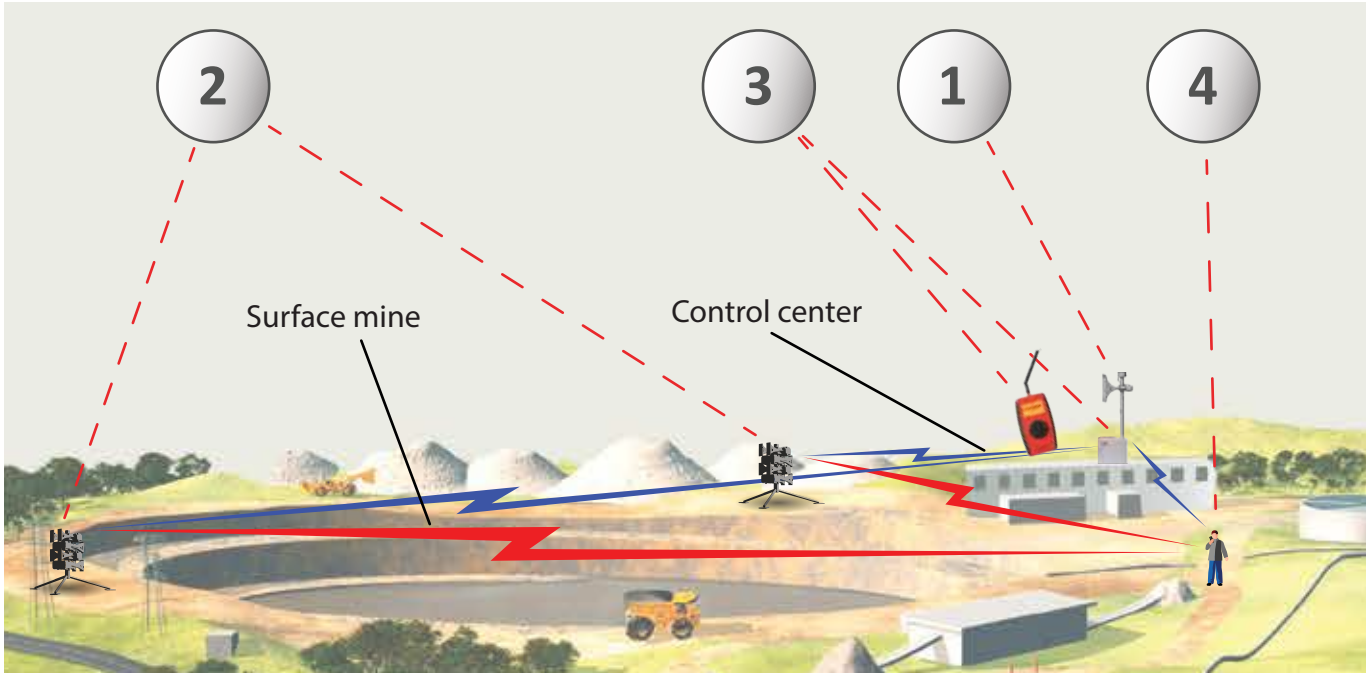
1. **Enhanced Safety in High-Risk Environments** – Electronic sirens reliably cover the entire area, increasing worker safety and minimizing the risk of injuries.

2. **Effective Warning** – The penetrating sound of sirens surpasses the noise of heavy machinery, ensuring that employees are promptly informed about imminent dangers such as explosions and landslides.

3. **Automatic and Immediate Threat Response** – Integration with detection systems allows sirens to respond automatically to unexpected events, enhancing worker protection.

4. **Adaptability for Various Site Sizes** – The solution includes the compact Bono siren for smaller quarries and the Pavian Portable siren for larger areas, ensuring maximum efficiency. This makes the warning system scalable and flexible.

5. **Ease of Installation and Mobility** – The ability to use both fixed and portable electronic sirens creates optimal conditions for warnings in any situation. Whether for small area coverage or a flexible solution adapting to changing needs, the system is designed to meet diverse requirements.



1 Bono Electronic Siren

The **Bono siren** is an ideal solution for smaller quarries or areas with limited coverage needs. Thanks to its ability to connect to a solar panel, it is also suitable for locations without access to a mains power supply. It features a **compact design**, enabling easy installation and reliable operation in demanding conditions. Bono provides sufficient acoustic power to achieve the required coverage and, when connected to external light signaling devices, also offers a **visual warning system**. This allows it to reliably inform about threats in a short time.

2 Pavian Portable – A Mobile Solution for Larger Sites

The P**avian Portable** is a powerful and mobile electronic siren designed for **large quarries and surface mines**. Thanks to its portability and quick deployment, it offers the **flexibility** needed for changes in mining areas or relocation between different sites. With its **high-performance output**, it effectively covers vast areas and informs employees or nearby residents, even over long distances.

3 Control Devices

The control of warning systems in quarries is managed by devices such as the **Central Control Unit (CCU)**, which is installed in the communication center. For **portable and flexible management**, the **CCU Portable** is available, while remote control via **SMS messages** is an ideal solution for off-site operation. Additionally, a **compact remote controller (RCU15)** is available for small warning systems. All these solutions enable a **quick and reliable response** to arising situations, ensuring **safe, dependable, and intuitive real-time control** of warning systems.

4 Notified Personnel

Competent personnel are informed about **emergency events via phone calls or SMS messages** and are summoned to workplaces for emergency response and rescue operations.

Telegrafia Warning Systems

The **warning systems for quarries and surface mines** developed by **Telegrafia a.s.** meet the highest **safety and durability standards**. They are designed to withstand even the most **challenging conditions**, providing **mine operators with a reliable solution** for **daily operations as well as emergency situations**.

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