

ZONITH

Mining & Tunnels Safety Solutions

SITUATIONAL AWARENESS PROTECTS STAFF IN VOLATILE ENVIRONMENTS

ZONITH solutions enhance situational awareness, giving management and security personnel complete visibility of employees and assets during emergency situations.

Furthermore, from various inputs including personal panic alarms, ZONITH solutions are configured to initiate a number of actions such as triggering sirens and lights, alerting all on-site staff about an emergency.



MINING AND TUNNELS SOLUTIONS



Underground mining and tunnels present serious difficulties when it comes to communicating and protecting staff members. It is crucial for safety that communication is optimised. ZONITH solutions offer a complete safety solution where alarms are collected via telemetry, directly from staff or from bad weather reports. Management and security personnel are given complete visibility of employees and assets through real time Alarm Displays. Furthermore, ZONITH can trigger various alarm types, from personal panic alarms to sirens and lights, to alert all on-site staff of the situation.

ZONITH integrates with existing mobile communication networks to provide tailored solutions, designed to fit specific needs.

FUNCTIONALITY

- **Alarms from telemetry**
The ZONITH Remote Telemetry and Control Unit (RTCU) enables a quick response to any alarm type at remotely located installations. SDS based alarms from the RTCU ensure that personnel are notified. The RTCU has a Heart Beat-function, ensuring an immediate reaction if the unit or network is down.
- **Emergency alarms from staff**
Quickly raising alarms from a wearable device can be the key to protecting staff. The ZONITH solution supports a variety of standard DECT phones, professional radios or handheld devices, all with an easy to reach emergency button. Once pressed, other staff members or security personnel will instantly be alerted. The same way personnel can also be informed about bad weather forecasts
- **Indoor Positioning of staff via Bluetooth**
With the ZONITH Real Time Location System (RTLS) and Bluetooth Positioning Beacons mounted inside buildings, it is possible to locate any Bluetooth enabled professional Radio, DECT phone, or Bluetooth ID Badge. Should an alarm be raised, first responders will receive instant information about the alarm and exactly where the alarm has been raised from.
- **GPS Positioning**
The RTLS can be used for both indoor and outdoor positioning. Many professional radios and other handheld devices have built-in GPS, so outdoor workers can raise alarms, knowing that first responders will be made aware of their exact location. Addresses or descriptive names like "pump 2" will be shown in clear text on radios and other handheld devices.
- **Alarm Display**
The ZONITH interactive Alarm Display shows alarms and alarm status on large monitors and/or touch screens. Multiple Alarm Displays can be mounted at multiple points around a facility, giving the staff in all control rooms enhanced situational awareness.