



WATCHERTUNNEL PERSONNEL SAFETY

INFORMATION WHEN AND WHERE YOU NEED IT MOST

IDENTEC SOLUTIONS' WATCHERTUNNEL systems have been keeping Tunnel and Mining personnel safe for over ten years. Deployed on every continent throughout the globe, WATCHERTUNNEL assures the safety of lone workers by enabling real time tracking of underground workers, monitoring of environmental data as well as facilitating communication in the event of an emergency and more.



"We have very specific sets of requirements for our underground operations. Providing our personnel and visitors with the safest work environment possible is an utmost priority to Luossavaara-Kiirunavaara Aktiebolag (LKAB)."

Egon Sundling,
Operations Manager at LKAB.

UNDERGROUND PERSONNEL SAFETY

IDENTEC SOLUTIONS' WATCHERTUNNEL systems have been keeping personnel safe for over ten years.

Developed in close collaboration with the Tunnel and Mining industries, IDENTEC SOLUTIONS' WATCHERTUNNEL is an advanced wireless tracking solution that ensures the location identification of personnel and visitors in isolated underground environments.

By integrating WATCHERTUNNEL, operators can instantly and automatically locate miners at all times. In addition, personnel can receive real-time alerts and alarms on potentially dangerous situations, such as the detection of a potentially hazardous environmental change, or when a lone worker or group of miners have exceeded designated work times underneath the earth's surface.

Robust, reliable and proven, WATCHERTUNNEL's flexible design offers additional safety measures, including voice communications and "man down" alerts, as well as audio and sight alarms. The suite of available safety modules include emergency mustering monitoring, CCTV, access control, alarm systems, environmental sensing, and pump monitoring. Additional tagging of equipment enables enhanced mobile asset utilization that drastically reduces object search and locate times and enhances asset lifecycle.

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ENVIRONMENTAL SENSING

Tunnel & Mining industries deal with toxic materials, gases, dust, heat and humidity in enclosed underground spaces. Real-time operational data and control is crucial for the safety of all personnel. Through the deployment of environmental sensing, the tunnel or mine can be constantly monitored for toxic gases, hydrogen and oxygen. Highly robust, Environmental Sensing systems hardware features a watertight and dirt resistant design.

Furthermore, by integrating the mine or tunnel's ventilation with environmental sensors, WATCHERTUNNEL can initiate a proactive response system such as increase ventilation fan speed in response to the number of workers in a specific area. Real-time alerts and alarms are dispatched when the sensors detect abnormal substance levels that subsequently initiate an instant and appropriate operational response.

VOICE COMMUNICATION

Voice Communication is essential in underground environments. IDENTEC SOLUTIONS' WATCHERTUNNEL enables voice communications through VH and UH frequencies to tie in with the overall system. Lone workers are able to convey important messages and man down communication is supported.

CCTV

CCTV can be used in Mines and Tunnels for visual information sensitive areas, access points and restricted zones. Cameras can be triggered by motion and integrated for activation with individual identification tags. Alarms can be triggered when illegal entry has been obtained and enable instant, real-time information on the situation.



PUMP MONITORING

Ensuring the full operational integrity of a Mine's Water Pump is essential. IDENTEC SOLUTIONS' WATCHERMINE and WATCHERTUNNEL integrate the digital output from the mine and tunnels' water pump with the WATCHERSERIES Pump Monitoring System that continuously monitors pump status, sending relevant situation data and real time alarms in the event of an unanticipated disruption. This communication instantly triggers the appropriate response from site personnel.

ACCESS CONTROL

The Access Control module can be utilized for gate and door monitoring to sensitive areas and issue an alert or alarm if an illegal access has been obtained. In addition, the wireless, real-time checks in and out of personnel provide supervisors with information on exactly how many workers are in each zone.

Easily integrated, alarms and CCTV can be triggered if illegal entry is obtained.

BENEFITS

- Intrinsically safe hardware
- Easily Integrated
- Intuitive software Interface
- IndustrySMART Certified
- Developed in collaboration with industry

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