DCSM

DIgital Confined Space Monitoring

Digital Confined Space Monitoring (DCSM) is the high-tech and fully digital mobile solution that allows you to safely monitor and manage confined spaces with less resources. We offer you a modular system with innovative techniques for registration, communication and observation, both inside and outside confined spaces. DCSM provides you with higher levels of safety, control and efficiency, therefore leading to fewer people taking risks: *a significant contribution to any safety policy.*

The Digital Advantage

Access Control

Allows authorized workers to access a confined space using their HID badges. When a badge is scanned, a red/green light indicates whether the worker can access the confined space.

Comunication

Internal and external intercoms allow for two-way communication between the confined space entrants and the attendants at the monitoring station.

Video Surveillance

Infrared cameras installed both inside and outside the confined space allow for enhanced visibility of the workers' safety status.

Gas Detection & Monitoring

Continuous gas detection and monitoring provides real-time data on the atmospheric hazards allowing the internal evacuation alarm to be activated remotely so that that the entrants can exit the confined space in a safe and timely manner.

- Enhanced Confined Space Visibility
- Improved two-way communication
- Analytics-driven performance management

- Reduced Manpower
- Improved emergency response time
- Decreased Project Cost

QUALITY

EFFICIENCY

SAFETY

- Reduced Exposure Hours
- Data to support incident investigation
- WorkSafeBC Part 9 compliant

Use Cases

Health & Safety

Incident & Investigation
Visibility will dramatically improve the quality, correctness, and speed at which we can identify incident causation.

Behaviour Observations
Remotely act on behavioural observations that would traditionally require physical CSE.

Additional Resources for Rescue Personnel
In the event of an emergency, visual conditions, environment readings, and remote communication would greatly assist in rescue scenario.

Environment Conditions

Continuous Gas Monitoring
Measuring conditions on a continuous basis for toxic, harmful gases, temperature changes, humidity 24/7, assists in the issuing of Safe Work Permits and easing the burden on personnel to perform intermittent tests.

Using displayed information to identify changing conditions and promptly act to prevent emergencies, while ensuring proper ventilation is in place is crucial.

Productivity & Efficiency

Population, Time, and Attendance
Confined space work entails a more than just risk to health and safety. The financial risks associated with scheduling and planning are often times emphasized by the inefficient nature of confined space critical work. By leveraging the software driving digital entry and exit logs associated with DCSM technology, Irwin's Safety is able to mitigate those planning and scheduling risks by providing valuable data to make informed decisions for real-time and future efficiency improvements.

Labour Reduction

Labour Shortage Mitigation
DCSM technology allows twelve confined spaces to be monitored by two workers, affecting a reduction of confined space labour requirements by 80%. Less confined space workers means less congestion at the workface, less exposure hours to inherent project risks and less reliance on entry-level worker positions to execute critical project scope.

Additional Features

- **24/7 remote support**
- **Custom Analytics & Dashboard**
- **Uninterrupted Backup Power Supply**
- **Body Temperature Sensing**
- **PTZ Camera-compatible**
- **Slave Monitoring Display to Project Stakeholders**