

Mineral-Pro Scada Monitoring System

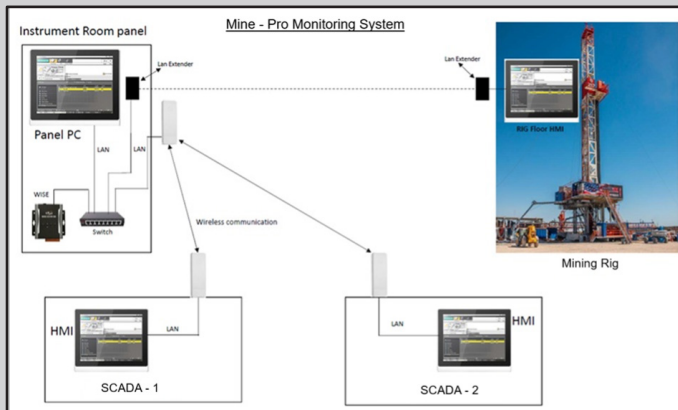
Smart Mining. Real-Time Control. Intelligent Insights.

Transform Your Mining Operations with Real-Time Intelligence

The **Mineral-Pro SCADA Monitoring System** is a powerful, PC-based data acquisition and control solution engineered for **mineral exploration and drilling rigs** including:

Wireline Coring | Reverse Circulation (RC) | Rotary Air Blast (RAB) | Open-Hole Drilling

Designed for modern mining challenges, Mineral-Pro enables **real-time monitoring, remote connectivity, and data-driven decision-making** - even in the most remote environments.



System Architecture

- Rig Floor HMI for real-time monitoring
- Wireless communication to base station
- Central SCADA systems (SCADA-1 / SCADA-2)
- Cloud-enabled remote access
- Multi-device integration (sensors, PLCs, instruments)

Key Benefits

- **Real-Time Data Visualization**
Live numeric and graphical display of drilling parameters
- **Remote Monitoring (IoT + GSM)**
Access rig data from anywhere
- **Cloud Connectivity**
Secure, anytime data access
- **Self-Powered System**
Solar + battery backup for off-grid sites
- **Performance Analytics**
Optimize operations and reduce downtime

Critical Parameters Monitored

- Weight on Bit (WOB)
- RPM (Rotation Speed)
- Torque
- Mud / Water Flow
- Hydraulic Pressure
- Feed / Thrust Pressure
- Fuel Level
- SPM (Strokes Per Minute)
- Hoisting Pressure

Core Features

- Multi-Protocol Integration (Ethernet, CAN, Serial)
- Flexible Tag Configuration
- Real-Time & Historical Data Analysis

- Advanced Calculated Channels
- Automated Report Generation
- Multi-Screen Monitoring
- Secure Data Backup
- Easy Configuration Tools

Built For Harsh Environments

- Remote & Off-Grid Locations
- Rugged Mining Conditions
- 24/7 Continuous Operation
- Low Maintenance Design

Digital Mining Advantage

- Improve drilling accuracy
- Reduce Non-Productive Time (NPT)
- Enhance operational visibility
- Enable faster decision-making

JIACH Support & Services

- Installation & Commissioning
- Operator Training
- Customization for Rig Requirements
- Ongoing Technical Support

Upgrade To Smart Mining Today

Mineral-Pro SCADA transforms traditional mining into a **connected, intelligent, and efficient operation.**

Contact us today to modernize your mining operations.