The mining industry covers a wide range of operations, both above and below ground, such as coal, precious metals, non-precious metals, other minerals, and aggregates, sand and stone. People who work in the mining industry know how unforgiving and potentially dangerous these environments can be. It is critical to maintain stable, continuous operations without sacrificing safety or quality.

Fluke makes rugged, reliable, quality tools mining professionals can count on. Tools designed for the mining environment, the professionals who work there, and the challenges they face every day.

**Mining Solutions**
**Electrical Engineer**

**Issues faced:**
- System maintenance and testing
- Consistent, quality power delivery from utility or local power generation
- Building, system, and machine downtime prevention

**Fluke solutions:**
- Fluke Connect
- Multifunction process calibrators
- Process test tools
- Pressure gauges and calibrators
- Power quality analyzers
- Insulation testers
- Earth ground testers
- Digital multimeters
- Insulation multimeters

**Mechanical Engineer**

**Issues faced:**
- Equipment installation
- Preventative maintenance, and repairs
- Determining optimal machinery replacements

**Fluke solutions:**
- Fluke Connect
- Thermal imagers
- Vibration tester

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**Fluke mining solutions**

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Fluke offers a full line of test and measurement solutions for the mining industry. Go to www.fluke.com for detailed information on these products and all the Fluke mining industry solutions.
Recommended mining solutions

**Power loggers**

**Best suited for:**
- Capturing and logging over 500 power quality parameters
- Troubleshooting and performing advanced analysis on power quality issues
- Energy surveys to determine sources of electrical energy waste

**Fluke Connect**

**Best suited for:**
- Simplifying preventive maintenance programs
- Seamlessly integrating tool data into software
- Diagnosing asset health in the field
- Cloud-based data sharing

**Thermal imagers**

**Best suited for:**
- Detection of “hot spots” on electrical panels, motors, VFDs, bearing and conveyor belts
- Measuring and observing temperature in hazardous or inaccessible areas
- Condition inspection of mining machine hydraulics and tracks

**Vibration tester**

**Best suited for:**
- Predictive and condition-based maintenance
- Identifying root cause and diagnosing severity of machine’s condition
- Prioritizing critical repair and replacement options
- Use with motors, pumps, fans, compressors, belt/chain drives, gearboxes and spindles

**Multifunction process calibrators**

**Best suited for:**
- Calibrating and maintaining process instrumentation and control systems
- Troubleshooting 4-20 mA loops, temperature, pressure, frequency and transmitters in one tool
- Performing HART transmitter adjustment

**Power quality analyzers**

**Best suited for:**
- Troubleshooting and preventing problems in power generation, transmission and distribution systems
- Conducting load studies to reduce energy usage
- Use with motors, pumps, generators, transformers, compressors and electrical panels

**Insulation multimeters**

**Best suited for:**
- Insulation resistance tests
- Troubleshooting and preventive maintenance

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