



FLUKE®

Mining Solutions

Fluke solutions for mining, engineering, and maintenance professionals.

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.

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



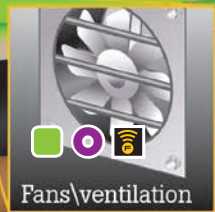
Mechanical Engineer

Issues faced:

- Equipment installation
- Preventative maintenance, and repairs
- Determining optimal machinery replacements

Fluke solutions:

- Fluke Connect
- Thermal imagers
- Vibration tester



Fluke mining solutions






Process Calibration Tools			Electrical Test Tools			
Multifunction process calibrators	Pressure gauges and calibrators	Process test tools	Power quality analyzers	Earth ground testers	Power loggers	Clamp meters
						
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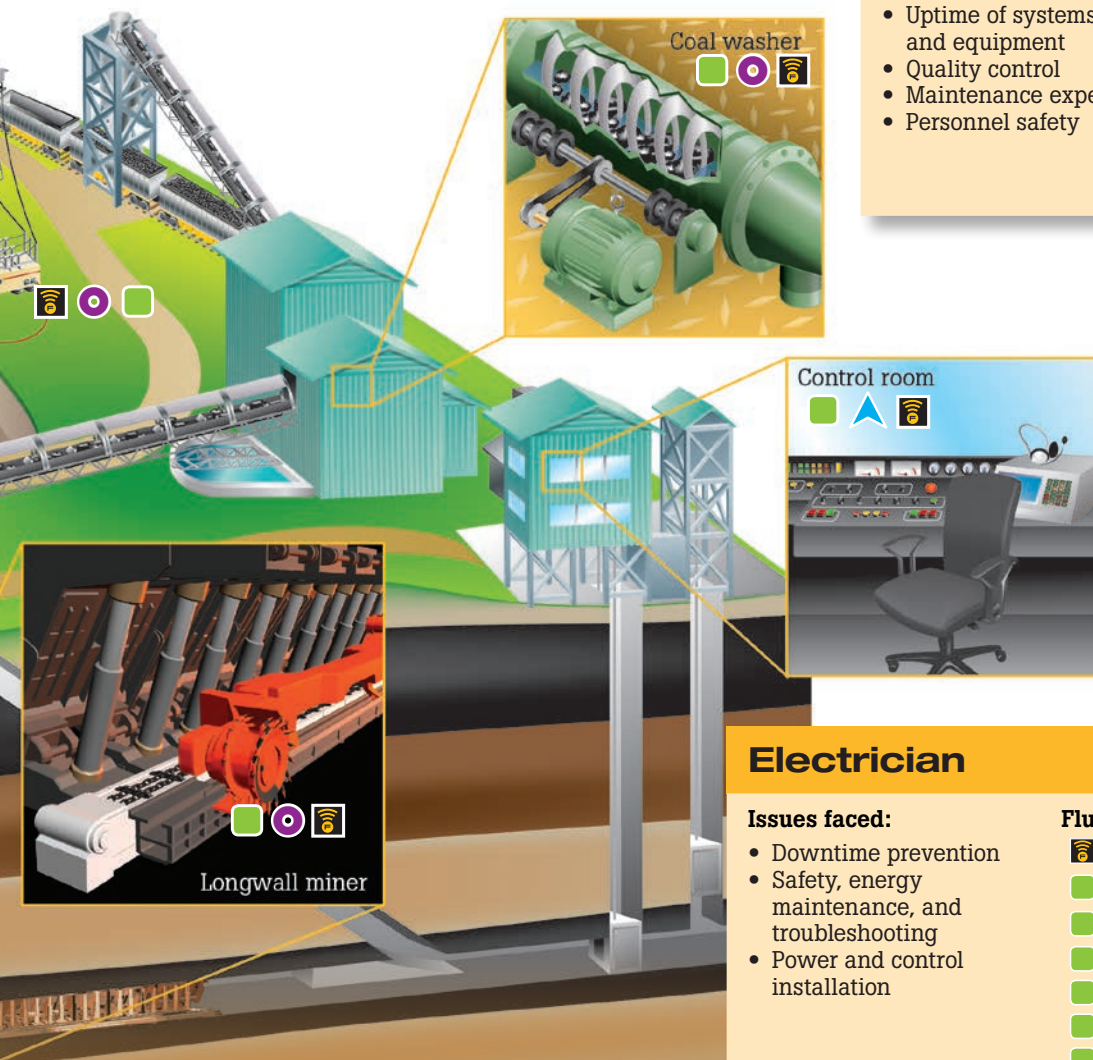
Maintenance Engineer

Issues faced:

- Uptime of systems and equipment
- Quality control
- Maintenance expense
- Personnel safety

Fluke solutions:

-  Fluke Connect
-  Power quality analyzers
-  Digital multimeters
-  Thermal imagers
-  Vibration tester



Electrician

Issues faced:

- Downtime prevention
- Safety, energy maintenance, and troubleshooting
- Power and control installation

Fluke solutions:

















-  Fluke Connect
-  Power quality analyzers
-  Insulation multimeters
-  Insulation testers
-  Clamp meters
-  Digital multimeters
-  Power loggers
-  Infrared windows

Diagram is not intended to be an exact representation.
Diagram components are not to scale and are for illustration purposes only.

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.

Infrared and Vibration Tools						Software	
Insulation multimeters	Insulation testers	Digital multimeters	Thermal imagers expert	Thermal imagers professional	Infrared windows	Vibration tester	Maintenance software
							
1587 FC	1555	28 II Ex	TiX580	Ti480	CV Series	810, 805 FC	Fluke Connect®

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



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



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



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



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



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



Insulation multimeters

Best suited for:

- Insulation resistance tests
- Troubleshooting and preventive maintenance



Fluke. *Keeping your world up and running.®*

Fluke Corporation

PO Box 9090,
Everett, WA 98206 U.S.A.

Fluke Europe B.V.

PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222

In Canada (800)-36-FLUKE or Fax (905) 890-6866

From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116

Web access: <http://www.fluke.com>

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