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# COAL MINING SOLUTIONS



# AMPCONTROL CONNECTS YOU TO COAL MINING SOLUTIONS

For nearly 50 years Ampcontrol has designed, manufactured and delivered integrated electrical solutions that improve safety, maintain efficient mining operations and meet stringent regulatory requirements.

From our humble beginnings to being recognised as an industry leader in electrical solutions, we have consistently ensured our products meet the expectations of our customers in terms of safety, performance, quality, technical excellence, reliability, efficiency and cost effectiveness.

The strength of our innovative solutions lies in our specialist engineers who are committed to discovering, developing and implementing market leading technology.

We are proud that our team has led the way and created innovative solutions such as the world's first 11kV AFC longwall system, intrinsically safe lighting, the first integrated protection relay and the market leading wide bandwidth earth leakage relay.

We partner with our customers, working through the design and application challenges unique to their operation. We focus our delivery across all aspects of our internal supply chain to ensure projects are installed and commissioned successfully.

But we don't stop there. As the OEM, we know the operational value of what we design and manufacture which is why we are focussed on optimising the equipment you have invested in and ensuring operational availability.

We can provide our customers with continuity of technical support to ensure equipment runs as it is supposed to, doesn't break down, is statutory compliant and operated correctly.

With strategically positioned operations in key mining areas around the globe, our highly specialised engineers and service teams are on hand when and where you need them.



## Why work with us

1. Our depth of electrical engineering capabilities
2. We focus on delivering the most cost effective solution across the asset lifecycle
3. We're a large diversified business with 50 years of continued operation
4. We're an integrated business who partners with you to design, build commission and maintain our solutions
5. Our solutions are robust, with proven in-service performance



## Longwall solutions

Recognised as a world class designer and manufacturer of longwall electrical systems, we provide reliable, efficient and technologically advanced solutions to power and monitor your longwall installation.

Our customised longwall systems include:

- Substations up to 8MVA
- CMEs and DCBs up to 12 outlets
- SCADA and PLC systems
- Cables
- Fully integrated lighting systems
- Mine wide communications
- Protection and control systems
- Gas detection and environmental monitoring

To maximise efficiency of your investment, we support your operation by providing assistance with longwall moves, ongoing maintenance, overhauls, hire equipment and training packages.

## Development section packages

Our integrated electrical packages for development mining systems include:

- Section circuit breakers
- Underground substations
- DCBs
- Fan starters
- Load centres
- Cables
- Control and software systems such as gas detection
- Conveyor control
- Lighting

Featuring Ampcontrol designed and manufactured products, these solutions ensure the entire development package operates safely and reliably as an integrated system via our PLC and SCADA solutions.



## Conveyor systems

For overland and underground conveyor installations, we design, manufacture and support a range of belt substations and starters. In addition, we offer conveyor control and communication systems which include:

- Emergency stop
- Remote isolation
- Pre-start warning
- Intercom and broadcast messaging functionality
- VF and traditional integrated drive and power distribution systems

Our conveyor systems have been put to the test with successful installation on some of Australia's longest conveyors.



## Transformers

Our robust, high specification, custom designed transformers are proven in the mining industry. Our quality designs cover oil filled and dry type transformers with ratings of 3 to 75MVA and primary voltages of up to 132kV.



## Power distribution

Ampcontrol has five decades of experience in the design, manufacture and delivery of electrical solutions that will improve safety, maintain efficient mining operations and meet stringent regulatory requirements.

Our safe and reliable solutions include:

- Modular and relocatable substations designed for HV and MV infrastructure with quick and efficient installation
- Gas filled, flameproof and distribution transformers from 3 to 75MVA and primary voltages up to 132kV
- HV cables for above and below ground infrastructure
- Fixed plant zone substations
- In pit switchgear, pumping fans, overland conveying and infrastructure supply networks
- HV/MV power quality solutions and voltage stabilisation systems



## Mine wide lighting

Ampcontrol's Burn Brite lights are the leading lighting solution in underground mining. Built to withstand the arduous conditions of underground mining, our robust solutions are lighting the majority of Australian mines.

We provide a variety of LED and fluorescent lamp mine-wide, longwall and vehicle lighting solutions which are designed to operate on specific mine or machine supply voltages.



## Environmental monitoring

Industry standards surrounding the operation and maintenance of gas and ventilation monitoring and control are very stringent to protect personnel safety. With these systems now interfaced directly to the power reticulation system, we know availability is key to a successful and safe operation.

As a designer and manufacturer of both site wide gas detection systems and the power reticulation systems they are interfaced with Ampcontrol is uniquely positioned to ensure successful integration and operation of these systems.

Our systems include our highly reliable, market adopted Gasguard and Dieselguard products which have been designed specifically for underground applications.



## Communications, networking and automation

Ampcontrol's safe, reliable communications and networking systems are tailored and specifically designed to be robust and suitable for hazardous areas.

We specialise in intercoms, broadcast messaging, phones, telemetry and fibre networks as well as designing integrated communications systems that allow otherwise disparate communication devices to interact with one another.

Our automation, process control and system integration services bring it all together providing the networks and actionable data to ensure efficient and safe operations.



## Electrical protection

Ampcontrol has a proven track record of delivering electrical protection relays that suit the unique system challenges and regulatory requirements of the mining industry.

Our comprehensive range of relays ensure safe and stable electrical systems and deliver:

- Increased personnel protection and safety
- Continuous monitoring of electrical system integrity allowing early removal of hazards
- Increased plant protection and improved economic efficiency
- Reduced downtime and fault damage

Ampcontrol's range of relays includes protection solutions for a range of applications through integrated and individual relay protection for earth leakage, earth continuity, earth fault lockout and frozen contactor.





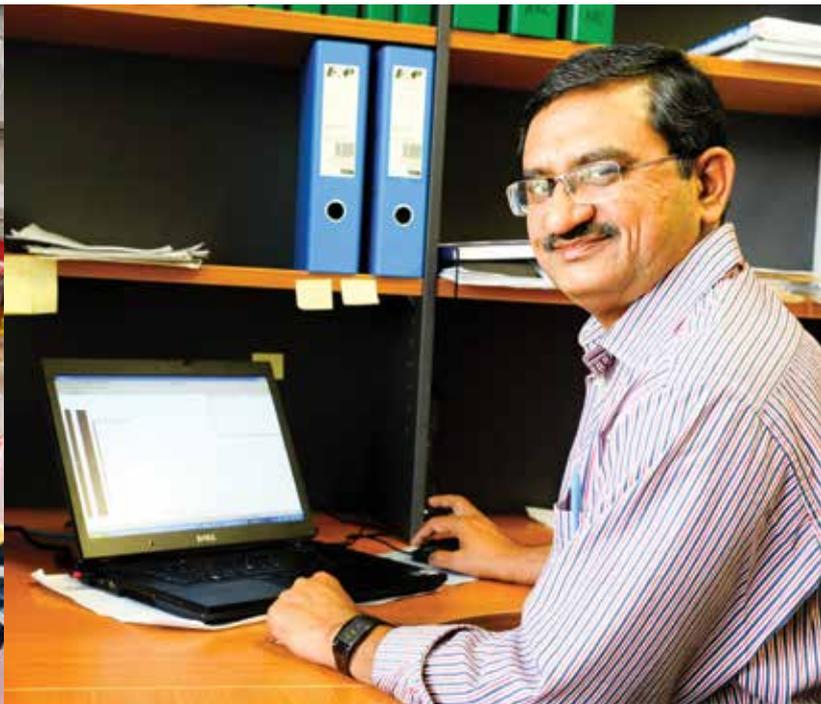
## Manufacturing

Ampcontrol has been manufacturing market leading technology and mining solutions since our inception in 1968.

With extensive manufacturing and workshop facilities in key mining regions, we are uniquely positioned to deliver the greatest possible value to our customers via our integrated internal supply chain.

From expert engineering resources, to the local manufacture of electronics components and fabrication of large scale HV equipment, supported by extensive on-site support services, Ampcontrol is a mine wide solutions provider.





# WHOLE OF LIFECYCLE MANAGEMENT

1

## Lifecycle management

Engaging Ampcontrol as your asset management partner means continuity of technical support from the OEM and a commitment to making sure the equipment runs as it is supposed to, doesn't break down and is compliant.

Partnering with Ampcontrol in the ongoing management of your electrical assets means assurance of optimum output and availability.

2

## Cables

Our approach to cable services is holistic, with the ability to support the efficient management of site cables from maintenance, trending and analysis, spares and storage.

We know the value of being local. Our regional network of cable operations offer personal, reliable service close to site, ensuring a fast response when you need us.

3

## Overhaul and repair

We are committed to extending the life of your electrical assets, optimising performance and ensuring compliance to evolving Australian standards.

Through extensive workshop and field resources, we can overhaul, upgrade and repair electrical and electronic equipment manufactured by us or third parties.

Our certified service technicians can overhaul and upgrade high voltage and complex electrical equipment including certified AS3800 flameproof overhauls. We also overhaul and rewind oil filled, dry type, gas filled and flameproof transformers in our specialist workshops.

4

## High voltage service

Ampcontrol provides onsite and engineering support to ensure compliant management of your high voltage infrastructure. This includes high voltage compliance audits and safety management plans, upgrades and testing services.

5

## Training

We conduct specialised training sessions and instructional courses related to our custom manufactured electrical equipment, relays and other electronic products, their applications and diagnostic features.



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