

MODULAR ELECTRICAL SWITCHROOMS



Our customised modular switchrooms are fabricated to meet structural demands, site requirements, fire ratings, environmental considerations and transportation requirements of mining, industrial and utility power distribution applications.

Amcontrol have supplied modular switchrooms to every industry and environment in Australia including open cut mines, network substations, infrastructure projects and processing operations.

The modular switchrooms house and protect sensitive electrical equipment such as HV & LV switchgear, drives, batteries, transformers, harmonic filters and control and communication panels. We specialise in motor and drive control centres, communication centres and distribution boards.

Fully designed, constructed, fitted and tested in our workshop, modular switchrooms are cost effective in terms of lead time, site installation and commissioning costs.

Supported by Amcontrol's extensive electrical engineering and manufacturing experience and our trusted electrical technologies, we have the ability to integrate and test all electrical and mechanical hardware as well as software systems before the room leaves our facility for site.

For enhanced safety applications, Amcontrol switchrooms can incorporate our advanced arc fault vent design to ensure the safety of personnel.

FEATURES

- Turnkey engineering, design, manufacture, testing and commissioning service
- Quality construction and accommodation of any structural, fire, safety, ingress protection and environmental requirements
- Fire rated building (up to 2 hours standard)
- Integrated building electrical, HVAC and fire services
- Vendor independent – install and integrate equipment
- Fast construction and delivery time
- Reduced on-site installation and commissioning time
- Optional gantries, platforms, handrails and stairs



Applications

- Above ground and open cut metalliferous or coal mining
- Network substations
- Infrastructure projects
- Processing operations
- Motor and drive control centres
- Communication centres
- Distribution boards

Specifications

Our customised switchroom solutions are designed and developed to meet our client’s specific applications, preferences and site specific features.

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| Structural | <ul style="list-style-type: none"> ■ Designed to conform with AS4100 and AS/NZS4600 ■ Structural steel materials, fabrication, painting and erection meeting client specification ■ Accredited welding in accordance with AS/NZS1554 and AS1796 certification ■ Gantries, platforms, handrails or stairs fabrication offered in addition |
| Flooring | <ul style="list-style-type: none"> ■ Fire rated CFC flooring ■ Implementation of patented flooring systems to manufacturer specification ■ Vinyl floor finish to client requirements ■ Cable vault and false floor implemented as required |
| Walls | <ul style="list-style-type: none"> ■ Self-supported structural steel wall frames or lightweight portal frame system ■ Internal layered with Fyrchek to specified building fire rating ■ Internal finish with Colorbond cladding, skirting and cornice to client requirements ■ Wall insulation with fiberglass batting and Sisalation at specified R-rating ■ External finish with Colorbond cladding to client requirements |
| Roof | <ul style="list-style-type: none"> ■ Roof trusses or structure pre-fabricated ■ Ceiling internal layered with Fyrchek to specified building fire rating ■ Internal ceiling finish with Colorbond cladding to client requirements ■ Roof insulation with foil faced fiberglass batting and Sisalation at specified R-rating ■ Roof external cover with Colorbond cladding to client requirements |
| Doors | <ul style="list-style-type: none"> ■ Doors CSIRO tested and approved fire rating standard ■ Doors fitted standard with stainless steel hardware or per client requirements |
| Room fit-out | <ul style="list-style-type: none"> ■ Building Electrical Services to AS/NZS3000 ■ Industrial ventilation and air-conditioning to suit heat load and client specification ■ Fire detection and alarm system to client requirements, optional fire suppression system |
| Equipment installation | <ul style="list-style-type: none"> ■ MCC, switchgear and auxiliary panel design and installation ■ SCADA and control system design and installation ■ Cable interconnection and earthing ■ FAT testing and pre-commissioning |