becker
MINING AUSTRALIA

AEGIS
CUSTOM COMMUNICATIONS ENCLOSURES

AEGIS-ND1G-AP2400 NETWORK DATA BOX
AEGIS-CP450-EM EMERGENCY CALL POINT
AEGIS-CTL-PLC CONTROLLER BOX

Data Network and Wi-Fi

The network is the most critical component of any or tunnel construction enterprise architecture. Becker Mining Australia design, implement and integrate key networking assets for some of Australia's most demanding underground IT environments.

Becker Mining Australia has a wealth of experience and have delivered industry leading technology solutions on projects worldwide. Including:

◗ LAN and WLAN
◗ Fibre Optic Networks
◗ Air-fibre/microwave links, point-to-point & point-to-multipoint
◗ Leaky feeder and surface radio communication systems
◗ Core, Campus and Edge services
◗ MATV
◗ Layer 2 and Layer 3 design and configuration
◗ Policy based routing and automation
◗ Control, management and analytics for performance and tuning

As services transiting the network increase, organisations are constantly working to improve services delivered. Becker Mining Australia provides a number of services to assist in leveraging the network, to ensure as much value as possible is extracted from the investment in infrastructure costs.

The Becker AEGIS Box is designed for underground hardrock or tunnel applications and is a modular unit depending on the required services. These are all custom assembled in our Newcastle facility.

The custom configurable design allows us to add any of the following optional services

◗ Wi-Fi access point
◗ Network Switch
◗ UPS Power Supply
◗ Fibre Ports
◗ Emergency IP Phone

◗ Emergency Alarm and Buzzer
◗ BLE Tracking beacon
◗ Broadcast Fixed Radio
◗ Gas Sensor

Emergency RF Call Point and Alarm

Emergency Call Point – BOS Box

◗ Connected via the RF Leaky Feeder system
◗ Capable of PTT (Push-To-Talk) broadcast over leaky feeder channel
◗ Emergency call to control room or nominated radio
◗ Alarm activation from digital input or radio key via DTMF tones
◗ Integrated UPS for emergency system
◗ Quick connect power cabling system
◗ Integration of AEGIS Boxes with other systems
◗ Optional remote call photo

AEGIS PLC Controller Enclosure

Becker can offer field device interfaces via a variety of AEGIS device hardware enclosure builds enabling the protected housing of automation devices.

The AEGIS PLC enclosure is a modular design, options available include:

◗ PLC available for condensed I/O integration.
◗ UPS with power supplies.
◗ Fibre network interfacing.
◗ Media converter for field device for specific filed device integration.
◗ Local Wi-Fi provides connectivity to networks and wireless local diagnostics

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