



Computer Surface Based Amplifier Exchange to interconnect communications between Underground Conveyors

The New Computerised Amplifier Exchange has been designed to replace the existing Amplifier Manual exchange or provide a new installation with a Modern communications platform. The system allows the operator the ability to communicate with personnel underground on all or individual amplifier circuits. The mimic panel provides either touch screen or mouse driven icons to operate the system. The Windows based program will operate on a stand-alone computer or can be networked to provide additional communications locations if required.

Normal operation

In normal operation, the operator will be able to contact personnel underground by selecting the required circuit from the mimic panel and voice page or send an alert tone prior to voice paging. The mimic panel will allow two or more circuits to be joined allowing communications between circuits i.e. Longwall joined to the trunk belt.

Call Exchange Operation

Call exchange tone will be detected and displayed on the mimic panel; speech is automatically connected to the operator. Further call exchange tones can be detected and indicated to the operator while in communication with the first caller.

Emergency

In the case of an emergency, the mimic panel allows the operator to send the tone to all circuits in one operation.

Voice Recording

Voice recording of operator calls is an option that allows automatic recording of all voice conversations; this can be configured to record automatically from the activation of an emergency call from a phone underground. Allowing the operator to record the details of the incident for later playback to other emergency personnel. This recorded data is further protected via a secure password to ensure data is not inadvertently lost or erased.

Emergency Procedure Questionnaire Prompting

When the voice recording feature is fitted, the initiation of an emergency alarm, will automatically display a operator help screen, this gives a list of questions from the mines emergency procedures with questions to ask regarding the emergency situation including:

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Emergency Procedure Questionnaire Prompting

- Q1. Who is calling?
- Q2. What is the problem?
- Q3. Where are you?
- Q4. Is anyone with you and who are they?
- Q5. Are there any injuries and what type of injuries?
- Q6. What assistance is required from control?
- Q7. Repeat information back to caller.

The details are on screen and the recording feature provides the facility to replay the conversations later to fill in on details.

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Failure Mode

In the event of computer failure the operator then has the ability to answer and control circuits via the menu keys on the LCU. Underground personnel will be able to communicate to the surface using the call exchange button. The Software can be loaded onto a replacement computer restoring normal communications in minutes.

Visual Diagnostics

The mimic display shows the status of all circuits connected. If Circuits are left connected for long periods of time the software will alert the operator allowing the operator to listen across the circuit prior to termination of the call.

Call Log

The system will keep a log of all operator calls and call exchange calls for underground, these are time and date stamped, stored in the system until required.

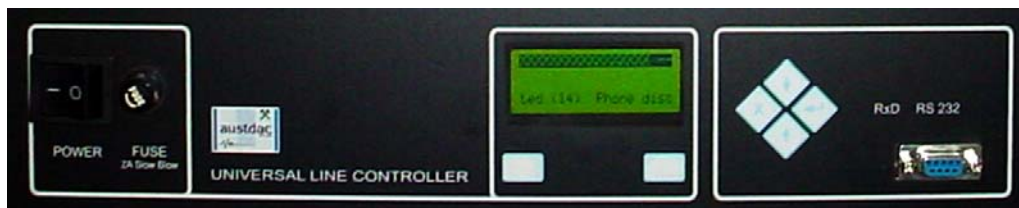
Memo function

Mimic panel buttons have a memo function to record notes regarding this circuit e.g. Date of installation, Reports from operators etc. This allows a history file to be put together.

System Features:

The operator has the following functionality to handle calls:

- The operator can alert all or selected individual circuits.
- Select an outside line and connect it to any telephone underground.
- Paging to all or selected circuits.
- Evacuation tone to all circuits.
- Single or dual speech paths.
- Network software.
- Single Button access per circuit.
- Conference call for up to 6 circuits.
- Call logging and reporting.
- Optional Remote Console connected via LAN, or Fibre optic or hard wired.





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